BAM Construction Ltd

WAST

Remediation Strategy Report

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1 Introduction

Welsh Ambulance Service Trust (WAST) intends to construct a Fire and Ambulance Station with a Resource Centre on land south of Wrexham Maelor Hospital in Wrexham.

The development has been granted a planning permission (ref. WRO/ P/2013/0805) subject to a number of conditions including Condition 16 and 17 in relation to land contamination:

Condition16

No part of the development shall commence until a scheme to deal with potential contamination at the site has been submitted to and approved in writing by the Local Planning Authority. This scheme shall include a phased investigation approach to identify the extent of contamination and any measures required to remediate the site, including post-development monitoring.

Condition 17

No part of the development shall be occupied until a Verification Report which demonstrates that the remedial works approved as part of condition no.16 above have been satisfactorily carried out, has been submitted to and approved in writing by the Local Planning Authority.

This report is in support of the discharge of Condition 16. It collates desk study information pertaining to the site and summarises the scope and results of intrusive investigations undertaken in relation to the proposed development. The report also summarises the assessments completed in a context of the proposed development and derives remediation strategy and verification plan for the site.

2 Background

2.1 Site Location and Description

The site is an area of grassed undeveloped land immediately south of the Wrexham Maelor Hospital and is located at National Grid Reference SJ 320 502, shown on **Figure 1**.

The site is bounded by a car park associated with the hospital to the north and east with residential development to the south. Croesnewydd Road is located to the west of the site, the past land use has remained undeveloped fields. The River Gwenfro bounds the site to the west and south. A pumping station is located directly to the east of the site with an access track crossing the entire length of the site.

Access to the site can be gained via Croesnewydd Road to the west. The site layout is shown on **Figure 2**.

The topography of the site is relatively flat with the exception of four mounds up to approximately 5m high. The location of the mounds is shown on Figure 2. There are a number of trees within the site boundary although typically along the site perimeter.

2.2 Site History

The review of historical OS maps dating from 1879 show the site to be greenfield except for the Wrexham & Mineral Great Western Railway line, which ran adjacent to the northern boundary of the site, shown from 1879 until 1992, where it is shown as dismantled. The proposed access road area (current car parking area of the Wrexham Maelor Hospital) is shown to be on the disused railway. This area is currently used as a hospital car park.

The location of the former railway line is shown on **Figure 2** and historical plans extracted from Evirocheck report are enclosed in **Appendix A**.

2.3 Geology

Based on the 1:50,000 geological map (Sheet SJ35SW), the superficial geology consists of Alluvium (near the River Gwenfro) and Glaciofluvial deposits over glacial till. The solid geology consists of the Pennine Lower Coal Measures.

Hydrology

The Gwenfro River flows in an easterly direction along the southern and western site boundary. The river Gwenfro has a protected 15m ‘ecology corridor’ along its entire length.

2.5 Hydrogeology

The superficial deposits and bedrock are both designated as a Secondary A aquifer. Secondary A aquifers are defined by the EA as ‘permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some

cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers'.

There are no source protection zones or nitrate vulnerable zones within the site boundary or within 1km of the site boundary.

2.6 Radon

According to the Radon report (enclosed in **Appendix B**) the WAST ARC site is located within the area where full radon protective measures are required.

2.7 Ground Stability and Mining

A Coal Authority report (enclosed in **Appendix C**) in relation to potential for historical and present mining activities indicates that the area is within the zone of influence for mine workings in three coal seams of coal at 240m to 280m depth with the last worked in 1932. However, any ground movement from these coal workings should have stopped by now.

2.8 Pollution and Environmental Information

2.8.1 Industrial land use

There are four contemporary trade directories entries within 250m of the site boundary. These include three active entries such as two hospitals and disability equipment manufacturers. One inactive entry is for electrical engineers, located some 200m to the north of the site.

2.8.2 Waste management facilities

There are no EA or Local Authority recorded landfill sites within or adjacent to the site boundary. The nearest waste management facility, a former waste transfer station, is located some 250m south of the site boundary. The authorised waste included sanitary waste.

In addition, a historical landfill is located some 500m to the north-west of the site. It is unlikely that it may have a detrimental impact on the subsurface quality within the WAST site.

2.8.3 Discharge consent

Two historical discharge outlets to the Gwenfro River were located some 40m to the east of the site. The discharge type was unspecified. These may be associated with the pumping station located in this area.

Considering that the river flow is from west to east, these outlets were located downstream of the site and therefore unlikely to have impacted the quality of the river in the vicinity of the site.

2.8.4 Radioactive substances

The Maelor Hospital used to be authorised to dispose of radioactive waste. In 1994 the hospital was served an enforcement and prohibition notice for unauthorised disposal of low level radioactive waste.

3 Proposed Development

The proposed development comprises accommodation for the ambulance services and training facilities for the fire services. These include office buildings and vehicle servicing areas and par parking. The majority of the site will be entirely covered in hardstanding and/or buildings. No planting is proposed within the servicing/office areas. An amenity area is proposed in the eastern part of the site. This will compromise a grassed area with an access track to a pumping station located in the eastern end of the site. A 15m wide ecological corridor will be maintained along the river. The proposed development is presented on **Figure 3**.

It is anticipated that the buildings will be founded on deep piled foundations due to anticipated soft ground conditions.

Due to the flood defence requirement the development platform has been set at between 90 and 92mOD, up to 2.8m above the existing ground level. This will result in substantial cut and fill activities as part of the enabling works as presented on **Figure 4**. Current earthworks balance indicates that some 1,700m^3 of surplus fill materials that will be required to be taken off site.

Four mounds of soils, containing a total of approximately 13,000m^3, are currently present within the site area. The source of these materials is unknown. Currently, it is proposed to remove these materials from site. However, should there be an intention to use these materials in the construction of the development platform their suitability for reuse in relation to geotechnical and chemical composition and potential impact on human health and controlled waters would require confirmation.

4 Conceptual Site Model

The site is set in an urban environment with hospital premises and associated car parking facilities adjacent to the north and residential properties present some 50m away from the southern site boundary, across the Gwynfro River bounding the site to the south.

The site is currently undeveloped with four mounds of materials of unknown origin present within the development area. The area currently used as a hospital car park is a former railway land. The proposed access road encroaches on this area.

The proposed development will result in the majority of the site being entirely covered in hardstanding and/or buildings. No planting is proposed within this part of the development. An amenity area will be grassed over with an access track to a pumping station located in the eastern end of the site. A 15m wide ecological corridor will be maintained along the river.

The development will require significant earthworks in order to achieve a required flood level. It is currently not proposed to reuse the mounds materials due to the positive earthworks balance.

The main sources of contamination are the mounds materials, subsurface potentially impacted by historical railway land use (access road only) and any potential made ground that may be present across the site. Potential contamination associated with these areas may pose a risk to site end users, site neighbours and controlled waters (Secondary A aquifer and the Gwenfro River).

The made ground materials may also be a source of ground gas. Desk study review identified a high risk from radon and therefore full radon protection measures are required for the development.

Considering the proposed development, the users of the ambulance and fire services centre, i.e. workers and visitors, may be directly exposed to the potentially impacted soils only within the amenity area part of the site. The access road and the services areas will be entirely covered in hardstanding and/or buildings.

The risks in relation to controlled waters may mainly arise from leaching of contaminates into the groundwater due to the rainwater infiltration within the amenity area and saturated flow towards the river.

The identified potential pollution linkages are summarises in **Table 1** below.

Table 1 Summary of the potential pollution linkages

Source	Pathway	Receptor
Railway land	Ingestion, dermal, inhalation of dust and vapours	Construction workers
	Inhalation of hydrocarbon vapours	End site users i.e. commercial workers/visitors
Mounds materials	Ingestion, dermal, inhalation of dust and vapours/gases	Construction workers
Made ground (and any materials impacted by or sourced from the mounds materials used within the development)	Ingestion, dermal, inhalation of dust and vapours	Construction and maintenance workers End site users i.e. commercial workers/visitors
	Leaching and migration	Secondary A aquifer The Gwenfro River
Ground gas and radon	Inhalation of ground gas indoors	End site users i.e. commercial workers/visitors

5 Previous Investigations and Assessments

Three ground investigations have been undertaken for the scheme, the first by Ian Farmers Associates in 2011 and the two other by CC-Geotechnical in 2012.

Figure 2 shows the location of the exploratory holes and the approximate locations of the proposed buildings.

5.1 Ian Farmers 2011 Investigations

Ian Farmers undertook ground investigations under Arup supervision across the currently proposed development area between February and March 2011. A plot of land to the south-west of the site was included within the scope of the investigation however no development proposals are currently made for this area.

The aim of this investigation was to provide information on ground conditions and to identify environmental constraints in relation to the proposed development.

The factual information including logs, chemical and physical laboratory data, is provided in their ground investigation reports (Reference [1]). The locations of the exploratory holes are shown on **Figure 2**.

5.1.1 Scope

The works comprised the following investigatory holes within the development area:

- Three cable percussive boreholes, BH01 to BH03, bored to between 10m and 20m below ground level. All were equipped with groundwater and ground gas monitoring installations, as detailed in Table 2 below.
- 11No window sampler boreholes, WS08 and WS10 to WS19, driven between 3.2m to 6.5m below ground level. Selected locations were also equipped with groundwater and ground gas monitoring installations, as detailed in Table 2 below. Window sampler boreholes WS07 and WS09 were not completed due to ecological restrictions on site.
- 16No dynamic cone penetrometers tests, CBR29 toCBR45, a number of which were also not completed due to the ecological constraints.
- 15No trial pits, TP14 to TP29, excavated to the depth be between 1.0m and 4.2m
- One trial pit for the purpose of undertaking soakaway tests, SA04, excavated to 2.0m below ground level.

Soil samples were obtained from all investigated locations (except for dynamic cone penetration tests) and sent to an appropriately accredited laboratory for chemical and geotechnical testing.

The geo-environmental analysis included:

- Metals (including arsenic, cadmium, chromium, lead, mercury, selenium, boron (water soluble), copper, nickel and zinc)

- Petroleum hydrocarbons (total and speciated with aliphatic and aromatic split and carbon banding),
- Polycyclic Aromatic Hydrocarbons (16 US EPA compounds)
- Phenols,
- Cyanides,
- Asbestos screen,
- pH,
- Organic matter,
- Soil leachate testing

The results and interpretation are presented in the Geotechnical Design Technical Note enclosed in **Appendix D**.

Following the site works, one round of ground gas and groundwater level monitoring was completed within installations listed in **Table 2** below.

Table 2 Details of 2011 SI monitoring installations

Well Id	SI	Response zone, m bgl	Response zone, m OD	Monitored strata (description)
BH01	2011	10-13	84.0-87.0	Glacial till (Gravels)
BH02	2011	13.5-15.5	77.6-80.5	Glacial till (Clay)
BH03	2011	13.5-20.0	83-75	Glacial till (Silt/sand)
WS08	2011	2.5-3.5	89.5-90.5	Alluvium (Sand/clay)
WS10	2011	1.5-5.4	87.4-91.3	Alluvium (Sand/clay)
WS11	2011	1.0-3.2	89.5-91.7	MG
WS12	2011	1.5-6.5	86.4-91.1	Alluvium (Sand)
WS13	2011	4.5-6.5	83.7-85.7	Alluvium (Clay/gravel)
WS14	2011	1.0-6.5	84.1-89.6	Alluvium (Clay/sand)
WS15	2011	5.0-6.5	84.4-85.9	Glacial till (Clay/gravel)
WS16	2011	1.0-4.0	86.9-88.9	Glacial till (Sand/gravel)
WS17	2011	unknown	unknown	Alluvium (Gravel/sand)
WS18	2011	4.5-6.5	82.7-84.6	Alluvium (Clay/sand)
WS19	2011	2.5-4.5	83.4-85.4	Glacial till (Clay/gravels)

5.2 CC Geotechnical, Access Road, 2012 Investigations

CC Geotechnical Limited undertook further ground investigations under Arup supervision within the area of proposed access road, in the north-western corner of the site. The site works were completed in June 2012.

The aim of this investigation was to provide information on contaminative nature of soils in the area of former railway land and also assess geotechnical properties of the subsurface.

The factual information including logs, chemical and physical laboratory data, is provided in their ground investigation reports (Reference [2]). The locations of the exploratory holes are shown on **Figure 2**.

5.2.1 Scope

The field works comprised excavation of eight trial pits, TP101 to TP108, to the depth of 4.5m below ground level. Dynamic cone penetration tests were undertaken in all investigated locations.

Soil samples were obtained from all investigated locations and sent to an appropriately accredited laboratory for chemical and geotechnical testing.

The geo-environmental analysis included:

- Metals (including arsenic, cadmium, chromium (total and hexavalent), lead, mercury, selenium, boron (water soluble), copper, nickel and zinc)
- Petroleum hydrocarbons (total, speciated with aliphatic and aromatic split and/or carbon banding and BTEX compounds),
- Polycyclic Aromatic Hydrocarbons (16 US EPA compounds)
- Semi-Volatile and Volatile Organic Compounds;
- Monohydric Phenols,
- Cyanides,
- Asbestos screen,
- pH,
- WAC testing suite including soil leachate testing.

The results and interpretation are presented in the Geotechnical Design Technical Note enclosed in **Appendix D**.

5.3 CC Geotechnical, Soil Mounds, 2012 Investigations

A separate investigation was completed by CC Geotechnical, under Arup supervision, within the four mounds of materials present within the site development area. The site works were completed in June 2012.

The aim of this investigation was to confirm the nature of the mounds materials and assess their suitability for reuse within the development if required and undertake the disposal options appraisal.

The factual information including logs, chemical and physical laboratory data, is provided in their ground investigation reports (Reference [3]). The locations of the exploratory holes are shown on **Figure 2**.

5.3.1 Scope

The field works comprised excavation of:

- 24No trial pits, TPM01 to TPM024, to the depth of 4.5m below ground level, and
- One cable percussive borehole, BH101, in the location of proposed building (due to the change of design). Groundwater and ground gas monitoring installation was placed with the response zone extending from 1 to 10m within made ground and natural ground.

Soil samples were obtained from all investigated locations and sent to an appropriately accredited laboratory for chemical and geotechnical testing.

The geo-environmental analysis was the same as for the Access Road investigations.

The results and interpretation are presented in the Mounds materials in the Mounds reuse Technical Note enclosed in **Appendix E**.

5.4 Encountered ground conditions

The encountered ground conditions during the investigations undertaken to date are summarised in **Table 3**.

Table 3 Summary of encountered ground conditions

Strata	Thickness, m	Description	Notes
Mounds	3.9 to 4.3m	**Mounds 1 and 2** – Reddish/brown gravelly sand / silty clay **Eastern plateau to Mound 2** - Domestic refuse **Mound 3** - Brown topsoil, clayey sand and gravel **Mound 4** – Reddish/brown silty clay / clayey gravelly sand	Depth proven by BH01 and BH02. Detailed description of encountered materials is presented in Arup Mounds Re-use Technical Note included in Appendix B
Made ground	1.2 - >3.2 m	**Western part (including access road) typically:** Brown locally clayey or silty sand and/or gravel of sandstone, concrete and/or brick. Also (WS11 only) loose brown sandy gravel of sandstone, mudstone and ash. Gravel if fine to medium angular to sub-angular;	Made ground outside mounds;
	0.7 - 1.2m	Black sandy gravelly ashy fill with limestone, slag, coal, brick and concrete.	Overlain by MG as described above in the area of access road
	0 – 1.2m (typically 0.5 to 0.9m)	**Eastern part typically:** Brown sandy and/or gravelly silt. Gravel is of quartz, mudstone, sandstone, tarmac, ceramic, brick and/or clinker.	
Alluvium	0.6 to >6.5m	Brown clayey or silty sands and gravels OR loose sands and gravels	Encountered across the site
Glacial till	0.6 – 4m	Firm to very stiff brown slightly gravelly clay	
	0.6 – 6.3m	Dense brown silty gravelly sand or sandy gravel with rare band of silt	
	>2.9 – 5.5m	Stiff to very stiff sandy gravelly clay with cobbles	Encountered in BH01 to BH03

5.4.1 Encountered evidence of contamination

General site area

Inclusions of ash and clinker were locally observed within the made ground materials in WS11 and TP19/TP21 respectively.

Access road

The proposed access road is located within the former railway land. Made ground encountered within the northern part of the access road (TP101 to TP104) comprised black gravelly ash fill, with inclusions of red brick, cinders, coal and tarmac typically from 1m to 2m below ground level. Trial pits excavated along the southern part of the access road (TP105 to TP108) encountered made ground from with inclusions of slag and clinker over the ashy fill materials.

Sensory evidence of hydrocarbon contamination was encountered in one location. In TP105 from 2.5m to 2.8m below ground level within the north western part of the access road; blue grey staining and hydrocarbon odour was noted.

Mounds

Domestic refuse materials were encountered in borehole BH02 between 1.2 and 3.9m bgl. Borehole BH02 was located within one of the mounds. These materials were recorded as '*fabric material, timber fragments, metal fragments including nails and rootlets (domestic waste)*', below 2.7m '*plastic bags*' were encountered and below 3.0m '*high domestic waste content*' was noted.

5.4.2 Groundwater

Water was generally struck at between 1.3 and 5.7m below ground level (84.6 to 87.6m OD) mainly within granular alluvial deposits, though a perched water table may exist in areas where granular deposits overlay cohesive soils as it was the case at BH01, WS08 and WS10 where water was struck at 1.5 to 6.5m bgl (90.5 to 91.3mOD).

Ground water monitoring was undertaken two weeks after the 2011 exploratory holes were sunk and recorded water levels of between 2.1 and 7.9m bgl (83.8 – 86.4 mOD). Perched water body was monitored at between 1.5 and 2.5m bgl (88.7 and 91.4mOD).

A number of wells, WS10, WS11, WS14and WS15, were found to be dry during this monitoring round.

The review of the groundwater levels obtained during the 2011 investigations indicated the general groundwater flow direction in south-eastern direction in line of the topographical gradient.

5.5 Soil quality assessment

The assessments of potential risks arising from the made ground materials including conceptual site models and review of laboratory testing results in a context of proposed development have been presented in the following separate notes:

- General site area in the Geotechnical Design Technical Note enclosed in **Appendix D**.
- Access road (area of former railway line) in the Geotechnical Design Technical Note enclosed in **Appendix D**.
- Mounds materials in the Mounds reuse Technical Note enclosed in **Appendix E**.

A summary of the assessment conclusions are presented below. Note that the development proposals have slightly changed however it is considered that the Conceptual Site Model derived for the development remains valid and the conclusions of the assessments are applicable to the development.

5.5.1 General site area

The generic assessment in relation to human health as presented in the Geotechnical Design Technical Note enclosed in **Appendix D** concluded that the made ground materials encountered across the site were unlikely to present a risk to site end users and therefore the proposed cut and fill operations were considered acceptable in relation to human health.

No significant risk to controlled waters was identified from the encountered made ground materials.

5.5.2 Access road

The generic assessment in relation to human health as presented in the Geotechnical Design Technical Note enclosed in **Appendix D** indicates that the made ground materials encountered in the area of the access road are not considered to be a risk to the development.

It was considered that the evidence of hydrocarbon contamination encountered in TP105 at 2.5m is likely to be a localised hot-spot. The laboratory testing did not indicate significant levels of hydrocarbons in this location with the total TPH measured at 252mg/kg. The proposed development in that location is for a 0.8m uplift of the ground level and this impacted area will be covered with a road surface.

Therefore, it is considered that the hydrocarbon impacted material is suitable to remain in situ and due to the depth and nature of proposed earthworks at this location (no excavations are required) no significant risk to construction workers or site end users is anticipated.

No significant risk to controlled waters is identified from the encountered made ground materials in terms of impact from leachable metals.

However, perched water was encountered in this part of the development in WS08 (located some 10m south of TP105) in a layer of loose coarse sand. Groundwater level monitoring indicated the water level at 91.4m OD. The impacted stratum extends from 90.8 to 91.1mOD and comprises very silty gravelly sand. Seepages of groundwater were noted at this depth. Therefore there is a long-term risk that the encountered hydrocarbon contamination may be impacting the quality of perched water, which may be in hydraulic continuity with the river, located some 50m further to the south. The quality of perched groundwater is currently unknown and therefore it is recommended that groundwater quality monitoring and assessments are undertaken using the exiting installation (primarily WS08) prior to the construction works to confirm the risks in relation to the river quality arising from this localised area impacted by hydrocarbons.

5.5.3 Mounds

The assessment of laboratory testing results indicated that the mound materials are generally suitable for use within the proposed development in relation to site end-users. This was with the exception of the refuse materials encountered in Mound 2, which will need to be removed from site.

An assessment of soil leachate results had been undertaken in relation to the nearest surface water receptor, the Gwenfro River. The majority of the proposed development is to be covered in hardstanding, which will significantly reduce if not eliminate the rainwater infiltration through the fill materials. However, in the areas of proposed planting the infiltration was expected to remain relatively high.

The assessment identified a number of exceedances but these are not considered significant. However to prevent any impact on the quality of controlled water receptors, particularly from PAH compounds, it was recommended that the materials from Mound 2 (excluding refuse) were placed only in areas of proposed hardstanding and buildings.

5.6 Ground gas assessment

A preliminary risk assessment has been carried out based on the results of the 2011 ground gas monitoring. The full results are presented in Ian Farmers factual report (Reference [1]) and have been summarised in Arup Memorandum on WAST-ARC – Preliminary ground gas assessment enclosed in **Appendix F**.

In summary, no significant ground gas concentrations or flows were detected during the one round of gas monitoring undertaken in 2011. A total of 14No installations were monitored with maximum detected methane of 0.9%v/v and carbon dioxide of 4.9%v/v. The measured concentrations of both carbon dioxide and methane were considered to be within the typical range of concentrations for natural soils with low organic content (Reference [4]).

The preliminary ground gas assessment of monitoring undertaken to date indicated a very low risk from ground gases to the proposed development. The site fell into the Characteristic Situation 1 (CS1), which requires no ground gas protection measures.

However, due to the limited information currently available on ground gas regime within the site area it is proposed to incorporate ground gas protection measures concurrent with Characteristic Situation 2 (CS2) that would require gas protective measures in accordance with published guidance (Reference [4]) in addition to those required due to the presence of radon. However, further review of the proposed protective measures will be undertaken on receipt of the results of further ground gas monitoring within the area of proposed development.

In accordance with the published guidance (Reference [4]) the gas protection measures for CS2 require one to two levels of protection such as:

- Reinforced concrete cast insitu floor slab with at least 1200g DPM, or
- Beam and block or precast concrete slab and minimum 2000g DPM/reinforced gas membrane.
- Possibly undefloor venting or pressurisation in combination with either of above.
- All joints and penetrations sealed.

Based on monitoring undertaken to date it is recommended that a single level of protection will be sufficient.

The protection against the ingress of radon will require measures specified in published guidance such as BRE211 (Reference [5]).

5.7 Summary and Conclusions

It is proposed to construct a Fire and Ambulance Station on currently undeveloped land south of the Wrexham Maelor Hospital, located on the outskirts of Wrexham. The proposed development is bounded by a hospital car park (former railway land) to the north and the Gwenfro River to the south and east.

The construction of the development will require incorporation of flood defences with the finished development platform level up to 2.8m above the existing ground level. This will require major cut and fill operations. Currently it is not proposed to include the mounds materials within the earthworks.

The desk study review of available information indicated that the general site area had no previous industrial or commercial uses except for the presence of four mounds of materials of unknown origin. In addition, the proposed access road which is within the area of historical railway land, which bounds the general area of the site to the north.

Ground investigations and assessments undertaken to date within the area of proposed development indicated the following:

1. No sources of potential contamination have been identified within the general site area (excluding the mounds) and made ground materials encountered across the site are unlikely to present a significant risk to end site users and controlled waters.

2. A localised area of hydrocarbon contamination has been identified within the area of proposed access road (former railway land). The assessments undertaken however indicated that these impacted materials are suitable to remain beneath the proposed road (no excavation works are proposed). Subject to a review of groundwater quality monitoring results.

3. Investigations undertaken within the mounds encountered domestic refuse type of materials within Mound 2. These materials are not considered to be suitable for reuse within the development and should be removed for off-site disposal. The disposal options appraisal undertaken (see **Appendix E** for details) indicated that these materials are deemed suitable for disposal at a non-hazardous waste facility.

   The human health risk assessments indicated that the remainder of the mound materials is unlikely to pose a significant risk to human health and therefore would be suitable for use within the construction of the development platform subject to meeting geotechnical criteria for reuse if required. The assessments in relation to controlled waters indicated that, except for Mound 2, the mounds materials would be suitable for reuse. Mound 2 materials (except for domestic refuse) could be reused however due to the presence of leachable metals these materials could only be placed beneath the hardstanding and/or buildings.

4. Ground gas assessment undertaken on results of one round of monitoring indicated no risk to the proposed development from ground gas. However, due to the limited information on ground gas regime beneath the site, it is

recommended that gas protection measures are incorporated in to the design at a single level of protection concurrent with CS2 requirements as detailed in Reference [4]. This will be however reviewed upon the receipt of the results of further ground gas monitoring. Notwithstanding the results of further ground gas assessments full radon protection measures are required for the proposed development in accordance with published guidance (Reference [5]).

5. No groundwater quality monitoring has been undertaken as part of previous investigations and therefore it is recommended that groundwater quality monitoring is carried out and assessment of potential risks to the Gwenfro River is carried out.

5.7.1 Key areas of potential concern

The assessments undertaken to date in relation to the proposed development identified the following issues have been identified, as detailed in Table 3 below.

Table 4 Plausible Pollutant Linkages and recommended remedial measures

Sources	Pathways	Receptors	Proposed remedial measures
Construction phase			
Refuse materials in Mound 2 (eastern plateau; area of BH2 at 1.2 to 3.9m, TPM12 at GL to 1.1m and TPM21 at GL to 2.1m)	Ingestion of soils or dust Dermal contact with soils or dust Inhalation of dust and gases/vapour	Site workers during construction Site neighbours (hospital car park users) during construction	Removal of refuse materials. Implementation of appropriate health and safety measures.
Evidence of hydrocarbon contamination in TP105 at 2.5 to 2.8m	Inhalation of vapours	Site workers during construction	A watching brief during construction works.
Operational phase			
Radon	Inhalation of gas indoors	Site end users	Full radon protection measures incorporated into buildings design in accordance with published guidance (Reference [5]).
Ground gas			Single level of gas protection required by CS2 (Reference [4]); Subject to review of ground gas monitoring results
Evidence of hydrocarbon contamination in TP105 at 2.5 to 2.8m	Lateral migration of contamination	The Gwenfro River	None; Subject to review of groundwater quality monitoring results.

6 Proposed Remedial Measures

6.1 Remedial and validation works in relation to identified areas of contamination

Removal of domestic refuse materials

Remediation requirements

The removal of Mound 2 materials should commence from removal of refuse type of materials. The Contractor shall excavate the area of Mound 2 'eastern plateau' extending from location of BH02 to TPM21 based on the grid coordinates given on the exploratory hole record. The area likely to comprise the domestic refuse materials has been estimated to be some 10m by 75m, as marked on **Figure 2**, and the likely volume of refuse materials has been estimated to be circa 800m^3 (see **Appendix E** for details).

The excavation shall extend to the base of the made ground materials comprising domestic refuse (recorded at this location down to between 1.1 and 3.9m below ground level). The excavation shall be extended laterally until all refuse type of materials are removed.

The Contractor shall record the remediation works undertaken. This shall include sketches of excavation size with accurate measurements of the perimeter and depth of the excavations, supported by photographic evidence and excavated volumes. This information shall be prepared for inclusion in the validation report.

On completion of excavation works, validation sampling shall be undertaken in accordance with the requirements below. The results will be compared against the proposed verification criteria presented in **Section 6.3**.

If the excavation extends below the existing ground level, on completion, it shall be suitably backfilled in accordance with all requirements of the specification for the scheme or suitably secured until the main earthworks commence.

Validation Requirements

Sampling and testing is required to validate the removal of domestic refuse materials.

Sampling shall be undertaken at the base and perimeter of the excavations in order to validate that all contaminated materials have been removed.

The validation sampling strategy from excavations shall be as follows or as otherwise agreed with the suitability qualified person:

- One sample shall be taken every 10m length of the excavation perimeter with a minimum of one sample per face of excavation. Samples shall be selected to be representative of the materials exposed.
- One sample shall be taken from every 100m² of excavation basal area with a minimum of one sample for excavations that are less than 100m².

Validation samples shall be sent to a suitably accredited laboratory for the analysis for determinands listed in Tables 5 and 6.

Validation sampling shall be undertaken by a suitably qualified person (i.e. environmental engineer/scientist).

Soils Arisings Management

The excavated refuse materials shall be stored on an impermeable membrane, with controls to prevent rainwater ingress (i.e. covered at all times) and bunded, until they are treated and removed for disposal.

6.2 Ground gas protection measures

Single level of ground gas protection is to be incorporated in to the building design. This will incorporate a gas membrane at 1200 or 2000g/DMP subject to selected floor slab design. This will be reviewed upon the receipt of further ground gas monitoring.

The desk study review identified a high risk to the proposed development from radon, as detailed in Section 2.6. This means that full radon protection measures are required. These will be implemented as part of the design and construction of the ground floor slab of the proposed commercial properties in accordance with current guidance (Reference [5]). This may include under-floor ventilation or radon sumps incorporated into the building design.

6.3 Imported Materials

It is understood that soils and fill materials will be imported to site for use in areas of landscaping and or planting. Any imported materials shall meet the criteria specified within Tables 5 and 6 below. The verification criteria shall be also use to determine if site won materials are suitable for reuse within the proposed development. Any further requirements in relation to soil parameters required for the plants growth shall be supplied by landscape architects.

The frequency of testing shall be a minimum of 1 sample in every 250m^3 of both imported materials and site won materials where required.

The verification criteria for general fill materials (placed beneath hardstanding and buildings) have been derived using CLEA SGVs, Generic Assessment Criteria (GAC), for a commercial end use scenario for inorganic compounds.

The verification criteria for landscaped areas have been derived based on in-house derived GACs for an open public space used by children. In addition, material placed within the areas of landscaping must meet the criteria set for soil leachate based on Environmental Quality Standards with respect to the river water quality.

The acceptable concentrations for organic compounds have been set at 500 mg/kg total petroleum hydrocarbons subject to meeting GAC for a residential end use scenario for individual compounds across the whole of the development area.

Table 5 Materials verification criteria – soils

Determinand	Verification criteria, mg/kg	
	General fill (beneath hardstanding and buildings)	Landscaped areas
pH	6 - 9	6 - 9
Arsenic	640	62
Cadmium	230	42
Chromium (III)	30400	25300
Chromium (VI)	35	35*
Copper	71700	18300
Lead	7300	646
Mercury	26	4.3
Nickel	1800	1380
Selenium	13000	1040
Zinc	3750	3750*
Free Cyanide	16200	1410
Phenols	420	
Benzene	0.33	
Toluene	610	
Ethylbenzene	350	
Xylene	230	
Total petroleum hydrocarbons *	500	
TPH Aliphatic (C5-C6)	30	
TPH Aliphatic (C6-C8)	73	
TPH Aliphatic (C8-C10)	19	
TPH Aliphatic (C10-C12)	93	
TPH Aliphatic (C12-C16)	740	
TPH Aliphatic (C16-C35)	45000	
TPH Aromatic (C5-C7)	65	
TPH Aromatic (C7-C8)	120	
TPH Aromatic (C8-C10)	27	
TPH Aromatic (C10-C12)	69	
TPH Aromatic (C12-C16)	140	
TPH Aromatic (C16-C21)	250	
TPH Aromatic (C21-C35)	890	
Acenaphthene	210	
Acenaphthylene	170	
Anthracene	2300	
Benzo[a]anthracene	3.1	

Determinand	Verification criteria, mg/kg	
	General fill (beneath hardstanding and buildings)	Landscaped areas
Benzo[a]pyrene	0.83	
Benzo[b]fluoranthene	5.6	
Benzo[ghi]perylene	44	
Benzo[k]fluoranthene	8.5	
Chrysene	6	
Dibenzo[ah]anthracene	0.76	
Fluoranthene	260	
Fluorene	160	
Indeno[123,cd]pyrene	3.2	
Naphthalene	1.5	
Phenanthrene	92	
Pyrene	560	
Asbestos	Absent and <0.001% in top 0.6m	

Note: * - but not excluding the individual petroleum compounds

Table 6 Materials verification criteria – soil leachate

Determinand	Verification criteria, □g/l	
	General fill (beneath hardstanding and buildings)	Landscaped areas
Arsenic	N/A	50
Cadmium	N/A	0.25*
Chromium (III)	N/A	4.7
Chromium (VI)	N/A	3.4
Copper	N/A	28*
Lead	N/A	7.2
Mercury	N/A	0.05
Nickel	N/A	20
Zinc	N/A	125
Cyanides	N/A	1

Note: * - for hardness dependent compounds, the Gwenfro River hardness of 343 mg/l has been used as provided by the Environment Agency.

6.4 Asbestos control

No asbestos has been encountered during previous investigations, however due to the unknown source of the mounds material the presence of asbestos cannot be excluded. If encountered, asbestos may be present typically in the following forms:

- Asbestos Containing Materials (e.g. cement bound asbestos);

- Asbestos fibres within soils;

The procedure for dealing with material that has been identified as potentially containing asbestos, the hazards which may be encountered from material containing asbestos and the procedure necessary to minimise risks of injury or dangers to health are based on the following published guidance:

Health and Safety Executive Asbestos Essentials Website (http://www.hse.gov.uk/asbestos/essentials/); specifically:

- A11 Removing asbestos cement debris.
- A38 Making safe and collect fly tipped asbestos waste.
- EM9 Disposal of asbestos waste.
- Work with materials containing asbestos - Control of Asbestos Regulations 2012 – Approved Code of Practice and guidance (ACOP).
- HSE OC 282/28 Fit Testing (www.hse.gov.uk/news/2009/fit-testing-poster.pdf).

7 Verification Plan

7.1 Removal of refuse materials from Mound 2

Verification of treated materials should be undertaken in accordance with validation procedures set out in Section 5.1 of this report.

The validation results should be compared with the materials verification criteria presented in **Table 5** and **Table 6**.

7.2 Materials verification criteria

Verification of imported materials should be undertaken in accordance with validation procedures set out in Section 5.1 of this report.

Any imported shall meet the criteria specified within **Table 5** and **Table 6**. The verification criteria shall be also use to determine if site won materials are suitable for reuse within the proposed development.

7.3 Ground gas protection measures

Verification of the implemented radon and ground gas protection measures will be undertaken as part of the Council Building Control inspections.

8 Contingency Plan

8.1 Watching Brief

It is proposed that during the construction works, particularly in the area of proposed access road and during removal of refuse materials from the existing mounds, a suitably qualified Environmental Scientist or Chemist will attend site to:

- ensure that the refuse materials are removed and to undertake validation testing,
- undertake validation of imported materials prior to placement in landscaped areas,
- ensure that, if encountered, all materials exhibiting olfactory or visual evidence of hydrocarbon contamination are removed and to undertake validation sampling on stockpiled materials, , and to ensure liaison with the Regulatory Authorities,
- continue liaison with the Regulatory Authorities, with regard to contamination issues.

8.1.1 Unexpected Contamination

The following methodology should be followed if previously unidentified areas of potential contamination are encountered during enabling earthworks at the site. This may include areas of significant hydrocarbon contamination, or soils with other visual or olfactory evidence of contamination.

- Subject to the degree of encountered contamination, soil should excavated and tested as detailed below.
- Soil samples should be collected and scheduled for a full suite of contamination testing (**Table 5**). Measures should be taken to restrict dust and surface water run-off. On receipt of the results, soils should either be re-used (based on comparison with the validation criteria), treated or disposed off-site to a suitable licensed landfill or soil treatment facility.
- Sampling should be undertaken by suitably qualified and experienced personnel aware of the remediation design objectives. The chemical analysis should be undertaken in accordance with MCERTS validated methods. On-site testing may be used to supplement the laboratory testing and a strategy for undertaking such work should be agreed in advance.

The local authority should be informed when unexpected contamination is encountered and it may be necessary to update the remediation strategy

Removal of materials exhibiting evidence of hydrocarbon contamination

Should materials exhibiting evidence of hydrocarbon contamination, particularly within the area of proposed access road, the Contractor shall excavate at the location of encountered visual or olfactory evidence of hydrocarbon

contamination.

On exposure of the contaminated material, the excavation shall be extended as necessary laterally and in depth (up to maximum of 4.5m) until all contaminated material is removed. If contaminated material is still present at 4.5m an assessment shall be made as to whether further excavation is needed. This shall be based on a decision made between the suitably qualified person and the Contractor.

The Contractor shall record the remediation works undertaken. This shall include sketches of excavation size with accurate measurements of the perimeter and depth of the excavations, supported by photographic evidence, and shall include records of the vertical/horizontal location of contaminated materials and its approximate volumes. This information shall be prepared for inclusion in the validation report.

On completion of excavation works, validation sampling shall be undertaken in accordance with the requirements below.

The excavation shall be suitably backfilled on completion in accordance with all requirements of the specification for the scheme.

Validation Requirements

Sampling and testing is required to validate that all contaminated materials have been removed and to assess the suitability for within the development.

The validation sampling strategy shall be as follows or as otherwise agreed with the suitability qualified person:

- One sample shall be taken every 10m length of the excavation perimeter with a minimum of one sample per face of excavation. Samples shall be selected to be representative of the materials exposed.

- One sample shall be taken from every 100m² of excavation basal area with a minimum of one sample for excavations that are less than 100m².

- One sample shall be taken from every 50m^3 of excavated material with a minimum of one sample for excavations that are less than 50m^3.

Validation samples shall be sent to a suitably accredited laboratory for the analysis as listed in **Table 5** and **Table 6**.

Validation sampling shall be undertaken by a suitably qualified person (i.e. environmental engineer/scientist).

Soils Arisings Management

The excavated materials shall be stored on an impermeable membrane, with controls to prevent potentially contaminated surface water runoff (e.g. stockpile is covered or there is drainage for runoff control) and bunded, until they are validated or remediated.

References

[1] BAM Construction Ltd, WAST – Western Gateway Site Wrexham, Factual Report on Ground Investigation, ref. W11/40822, June 2011

[2] BAM Construction Ltd, Ground Investigation for WAST Wrexham ARC: Access Road, ref. CCG-C-12-6692, July 2012

[3] BAM Construction Ltd, Ground Investigation for WAST Wrexham ARC: Soil Mounds, ref. CCG-C-12-6693, July 2012

[4] Assessing risks posed by hazardous ground gas to buildings, Ciria 665, London 2007

[5] Radon. Guidance on protective measures for new buildings, BRE Report BR211, 2007.

Figures

Figure 1 Site Location
Figure 2 Site Layout
Figure 3 Proposed Development
Figure 4 Proposed Earthworks

A4

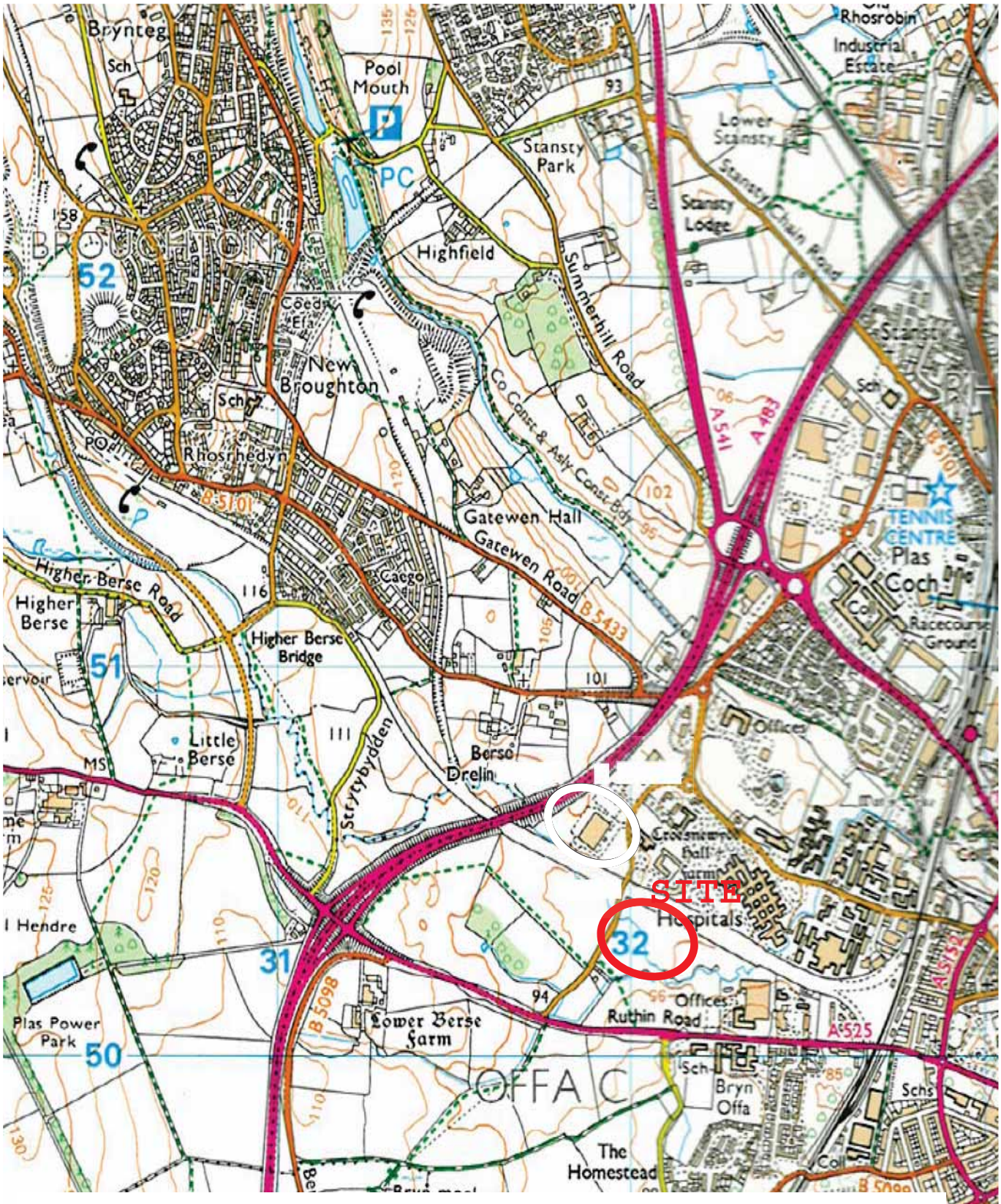
ARUP

Job Title

WAST Western Gateway

Drawing Title

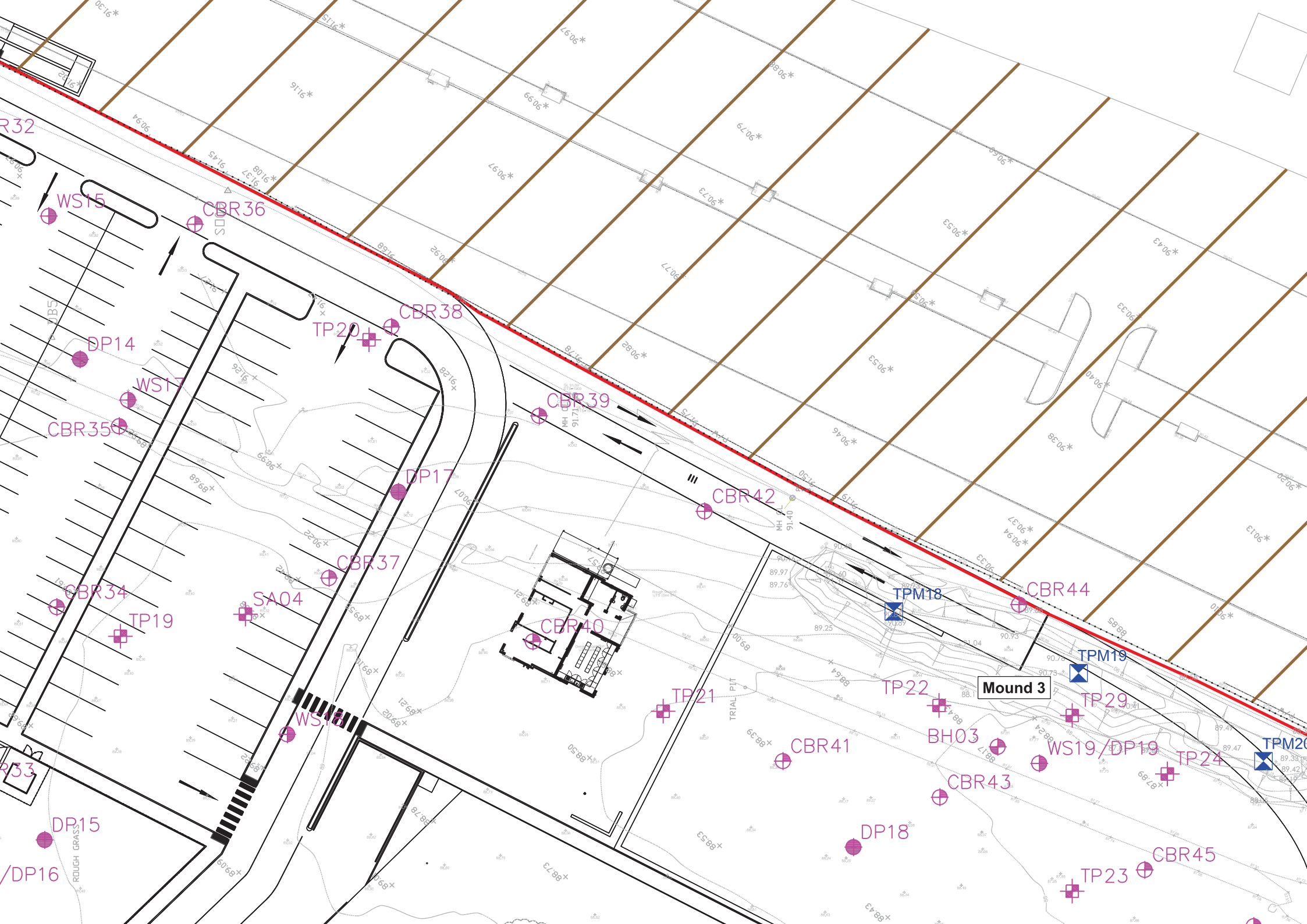
Figure 1
Site Location

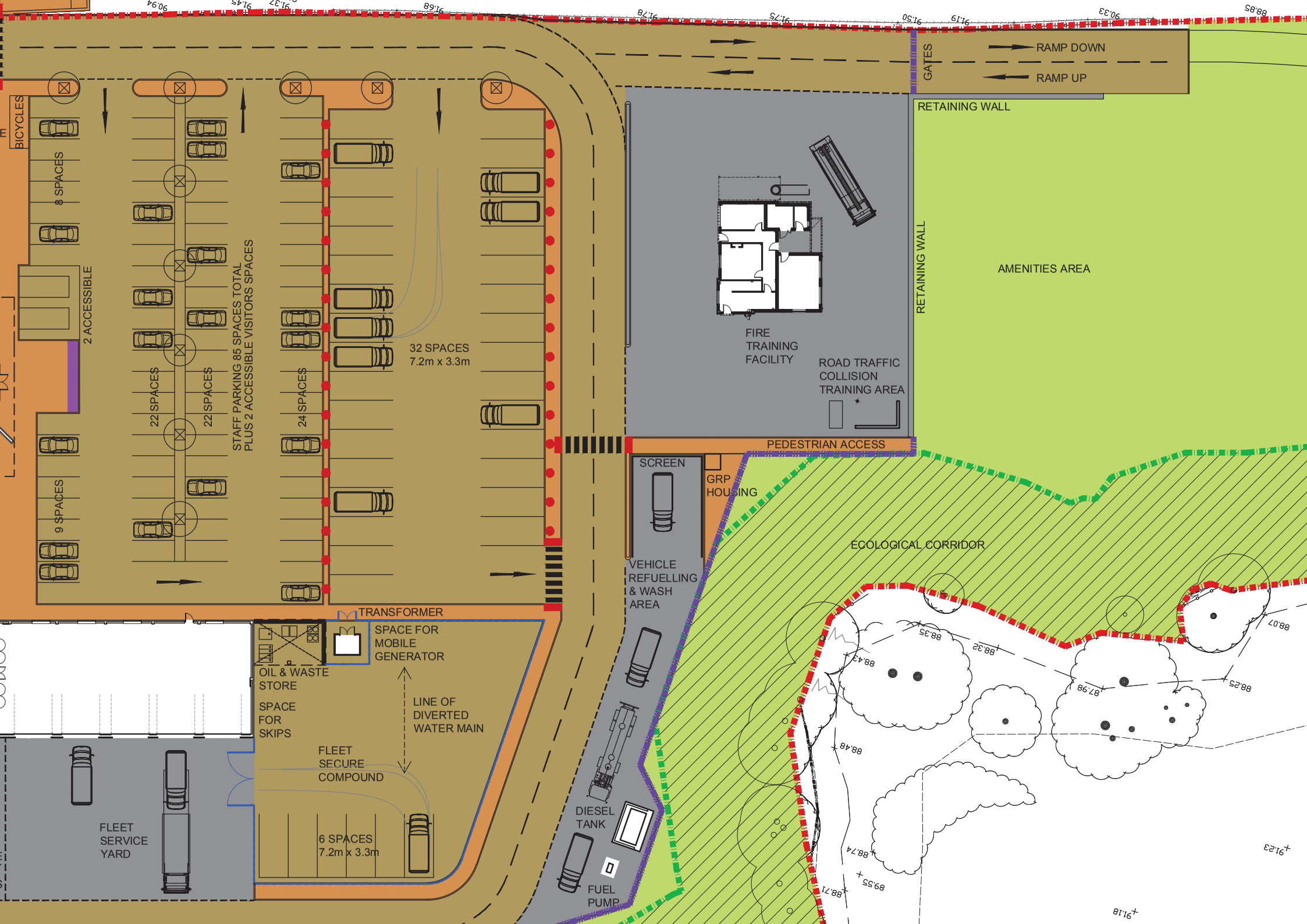


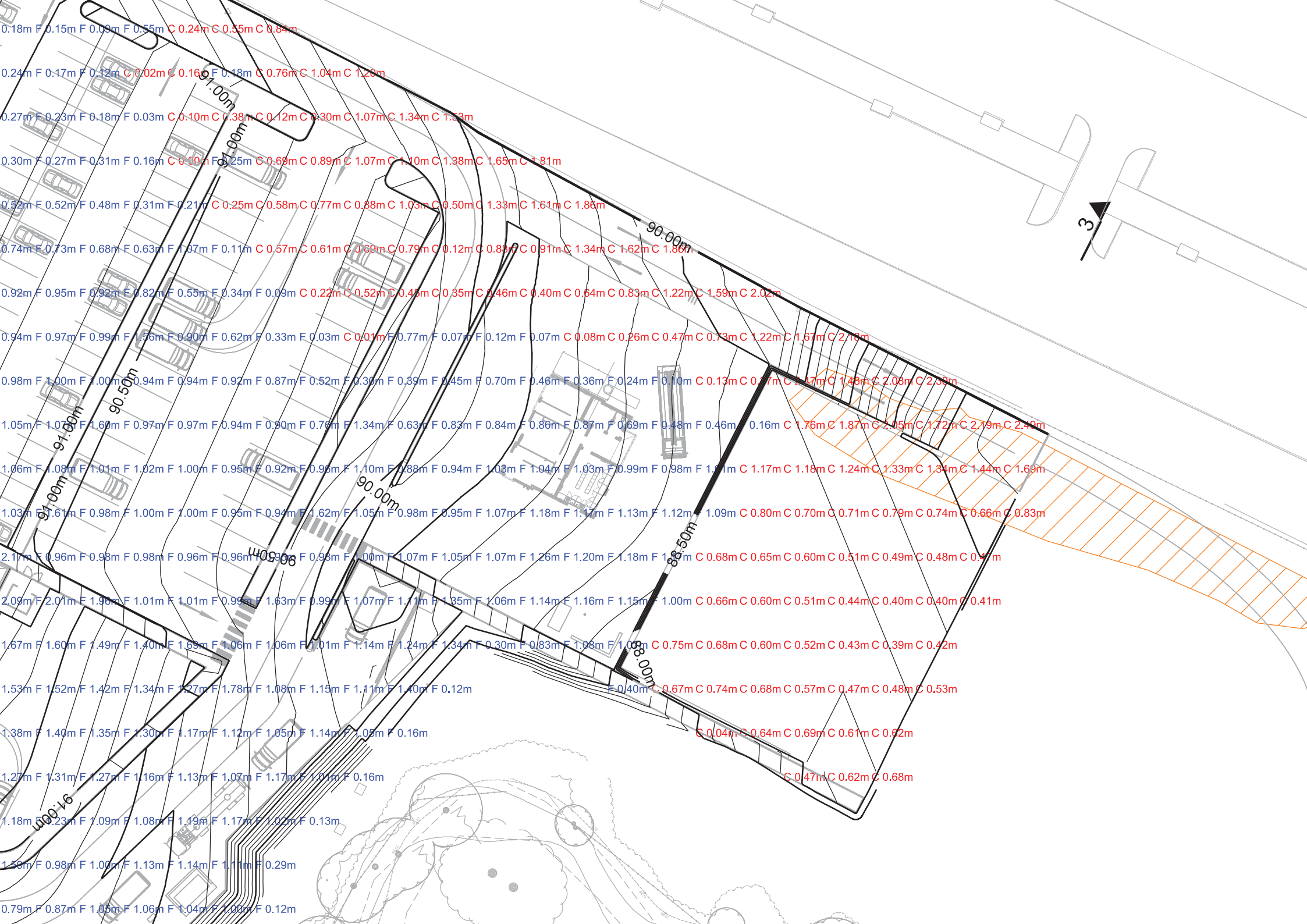
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Do not scale

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R32
WS15
CBR36
CBR38
TP20
DP14
WS17
CBR39
CBR35
DP17
CBR42
CBR37
CBR34
SA04
TP19
CBR40
TPM18
CBR44
TPM19
TP21
TP22
Mound 3
TP29
WS16
BH03
WS19/DP19
TP24
TPM20
CBR41
CBR43
R33
DP15
DP18
CBR45
/DP16
TP23
TRIAL PIT
ROUGH GRASS


GATES
RAMP DOWN
RAMP UP
RETAINING WALL
RETAINING WALL
AMENITIES AREA
FIRE
TRAINING
FACILITY
ROAD TRAFFIC
COLLISION
TRAINING AREA
PEDESTRIAN ACCESS
SCREEN
GRP
HOUSING
ECOLOGICAL CORRIDOR
VEHICLE
REFUELLING
& WASH
AREA
BICYCLES
8 SPACES
2 ACCESSIBLE
9 SPACES
22 SPACES
22 SPACES
STAFF PARKING 85 SPACES TOTAL
PLUS 2 ACCESSIBLE VISITORS SPACES
24 SPACES
32 SPACES
7.2m x 3.3m
TRANSFORMER
SPACE FOR
MOBILE
GENERATOR
OIL & WASTE
STORE
SPACE
FOR
SKIPS
LINE OF
DIVERTED
WATER MAIN
FLEET
SECURE
COMPOUND
FLEET
SERVICE
YARD
6 SPACES
7.2m x 3.3m
DIESEL
TANK
FUEL
PUMP


91.00m
91.00m
90.50m
91.00m
90.00m
90.50m
88.50m
88.00m
91.00m
90.00m
3

Appendix A

Historical plans

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Wood
Deciduous
Brushwood
Furze
Rough Pasture

Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
Surface Level

Instrumental Contour
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream

County Boundary (Geographical)
County & Civil Parish Boundary

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees

Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings

Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Sloping Masonry
Electricity Transmission Line
Pole

Cutting
Embankment
Standard Gauge Multiple Track
Standard Gauge Single Track
Road Under
Road Over
Level Crossing
Foot Bridge
Siding, Tramway or Mineral Line
Narrow Gauge

Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS Boundary Post or Stone
Pol Sta Police Station

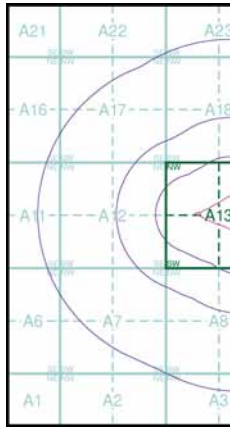
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff

General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary

Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
Bench mark
Triangulation

Mapping Type
Denbighshire
Denbighshire
Denbighshire
Denbighshire
Denbighshire
Denbighshire
Ordnance Survey Plan
Ordnance Survey Plan
Ordnance Survey Plan
Ordnance Survey Plan
Ordnance Survey Plan
Ordnance Survey Plan
10K Raster Mapping
10K Raster Mapping
10K Raster Mapping

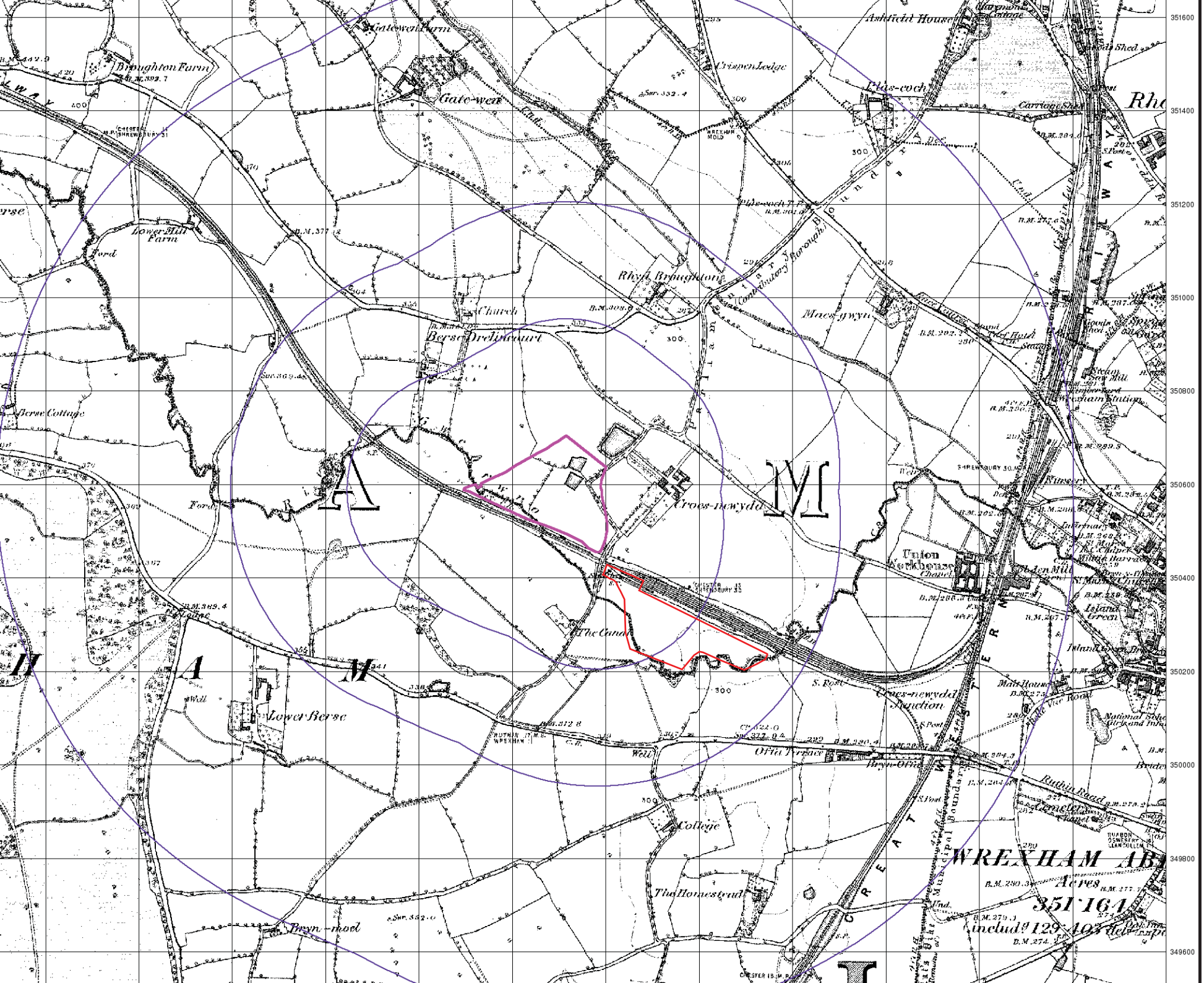
Historical Map - Sli



Order Details

Order Number:	3
Customer Ref:	2
National Grid Reference:	3
Slice:	A
Site Area (Ha):	3
Search Buffer (m):	1

Site Details



Published 1879

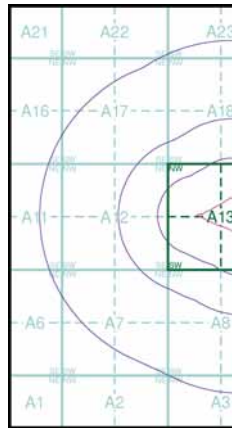
Source map sca

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the 1:2,500 scale was adopted for
used to update the 1:10,560 maps
often some years later than the su
were based on the Cassini Project
county or group of counties, giving
areas. In the late 1940`s, a Provisi
the 1:10,560 mapping from a numb
unfinished - with all military camps
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1:10,000 maps were produced usi
revision process continued until re
10 years or so for urban areas.

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1879
1:10,560

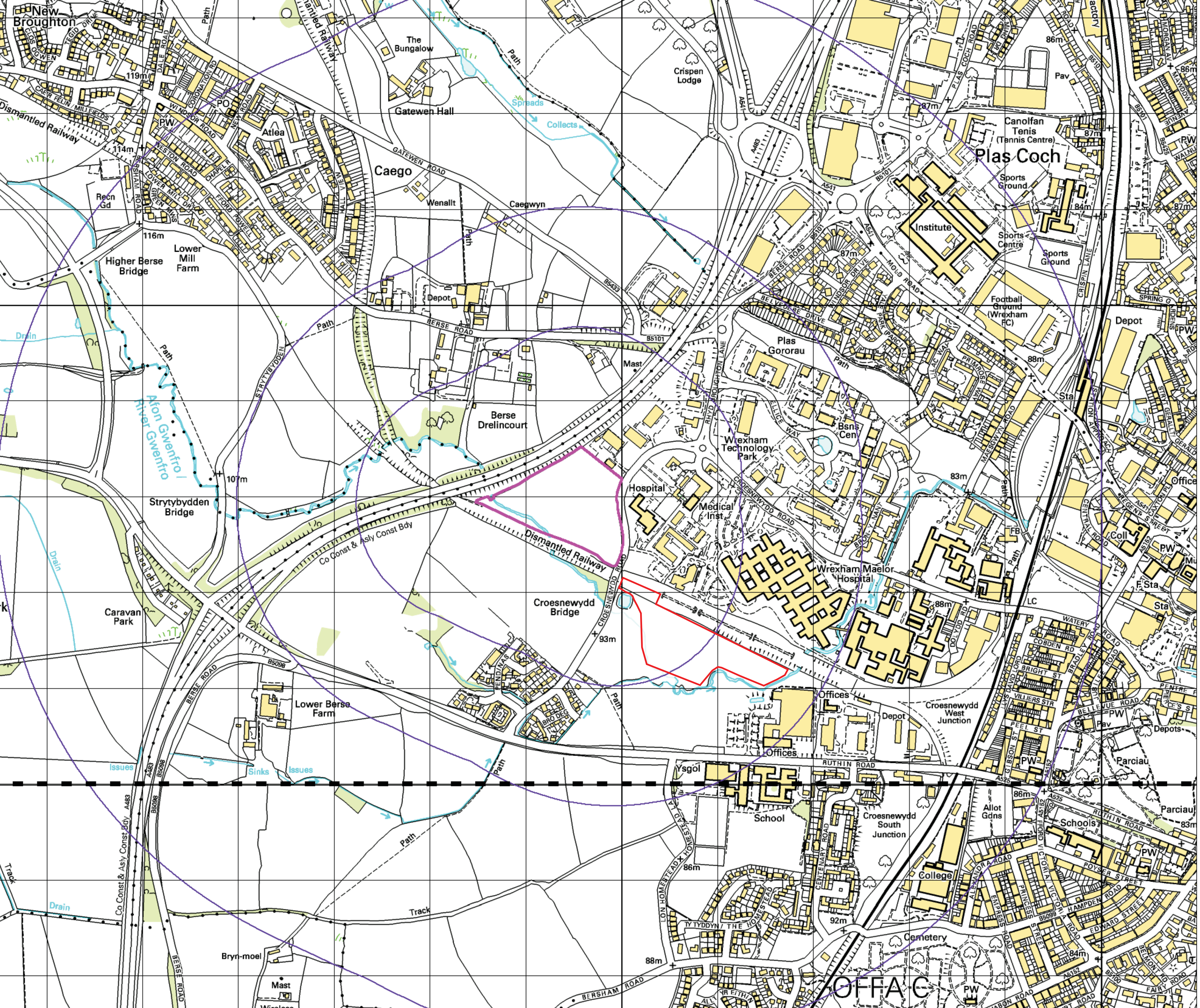
Historical Map - Sli



Order Details

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Slice:	A
Site Area (Ha):	3
Search Buffer (m):	1

Site Details



Published 2010

Source map sca

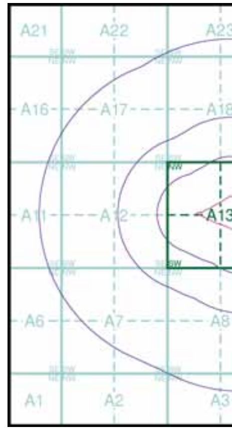
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is highly detailed showing building
roads, tracks and paths. Road nam
relevant road number and classific
includes county, unitary authority,

Map Name(s) and D

SJ35SW 2010 1:10,000

SJ34NW 2010 1:10,000

Historical Map - Sli



Order Details

Order Number: 3
Customer Ref: 2
National Grid Reference: 3
Slice: A
Site Area (Ha): 3
Search Buffer (m): 1

Site Details

Appendix B

Radon Report



David Lynesmith
Arup
4 Pierhead Street
Capital Waterside
Cardiff
CF10 4QP

Radon Report: England and Wales

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: *GR_204135/1*

Client reference: WAST - ARC Wrexham

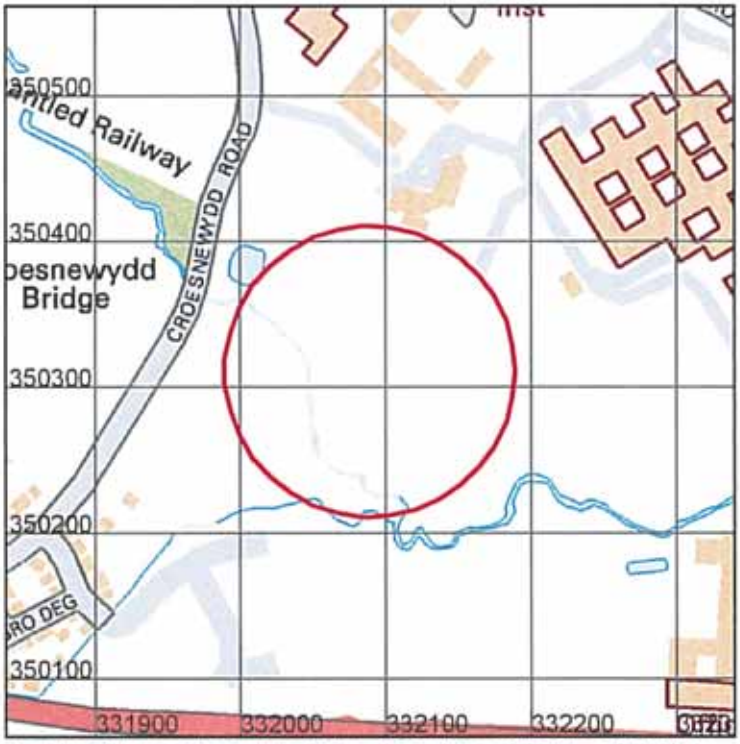
Location and extent of site



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Scale: 1:5 000 (1cm = 50 m)

This report describes a site located at National Grid Reference 332089, 350311. 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.

Search area indicated in red



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OS Street View: Scale: 1:5 000 (1cm = 50 m)

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Radon Report: England and Wales

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 (2007 edition)*, which also provides guidance on what to do if the result indicates that protective measures are required.

FULL RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.

The BGS is not able to provide advice on the technical specifications of 'basic' and 'full' radon protective measures. This information is detailed in **BRE Report BR211 Radon: guidance on protective measures for new buildings** which may be purchased from **brebookshop.com**. This report offers guidance on the technical solutions that are required to satisfy Building Regulations requirements.

Technical solutions to radon protection in new build and existing dwellings in radon affected areas are available on the BRE web site at:
http://www.bre.co.uk/page.jsp?id=1626 and http://www.bre.co.uk/radon/ and in a range of technical reports available from **brebookshop.com**; Tel: 01923 664262, email: bookshop@bre.co.uk.
Summary guidance is available on the web at:
http://www.bre.co.uk/radon/protect.html.

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

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Radon in existing buildings

Is this property in a radon affected area – YES

The answer to the standard enquiry on house purchase known as **CON29 Standard Enquiry of Local Authority 3.13 Radon Gas: Location of the Property in a radon Affected Area is YES** this property is in a Radon Affected Area as defined by the Health Protection Agency (HPA).

The estimated probability of the property being above the Action Level for radon is: 10-30% (HIGHER PROBABILITY).

The result informs you of the estimated probability that this particular property is above the Action Level for radon. This does not necessarily mean there is a radon problem in the property. The only way to determine whether it is above or below the Action Level is to carry out a radon measurement within the existing property.

Radon Affected Areas are designated by the HPA. They advise that radon gas should be measured in all properties within Radon Affected Areas.

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 above the Radon Action Level and if so whether remedial measures were installed, radon levels were retested, and the that the results of re-testing confirmed the effectiveness of the measures.

In radon affected homes, the problem of radon can usually be tackled with simple, effective and relatively inexpensive measures. These measures are comparable in cost to work such as damp-proofing and timber treatment. You can get practical advice about construction work to reduce radon levels from the Building Control Officer at your local council.

For further information, advice about radon, its health risks and details of how to order the radon test, please contact the HPA Radon Helpline on 01235 822622 or go online at www.ukradon.org or write to Radon Survey, Health Protection Agency, Centre for Radiation, Chemical and Environmental Hazards, Chilton, Didcot, Oxon, OX11 0RQ, email: radon@hpa.org.uk. You can obtain an information pack from the HPA free Radon answerphone on 0800 614529

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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 exceeds the Action Level, measures should be taken to reduce the concentration.

Radon in workplaces

The Ionising Radiation Regulations, 1999, 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.ukwebsite: www.brebookshop.com

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Report issued by
BGS Enquiry Service

Appendix C

Coal Authority Report

Issued by:
The Coal Authority, Mining Reports Office, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire NG18 4RG
ON-Line Service: www.groundstability.com - Phone: 0845 762 6848 - DX 716176 MANSFIELD 5

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Person dealing with this matter:	**Keith Pennington**
Our reference:	**00032324-10**
Your reference:	31931392
Electronic Ref:	EME_00014223920006_005
RRUID:	005.00014223920006
Date of your enquiry:	**21 July 2010**
Date we received your enquiry:	**21 July 2010**
Date of issue:	**22 July 2010**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal and Brine Report

Site At Wast - Brothers Site, Croesnewydd Road, Wrexham, Clwyd

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	Yes
Brine Compensation District	No

Information from the Coal Authority

Underground Coal Mining

Past

The property is in the likely zone of influence from workings in 3 seams of coal at 240m to 280m depth, and last worked in 1932.

Any ground movement from these coal workings should have stopped by now.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove coal using underground methods.

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The property is not in an area that is likely to be affected at the surface from any planned future workings.

However reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Coal-mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast Coal Mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal-mining subsidence

The Coal Authority has not received a damage notice or claim for the property since 1 January 1984. There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of Support

The property is in an area for which a notice of entitlement to withdraw support was published in 1974.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

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Working Facilities Orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to Owners of Former Copyhold Land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

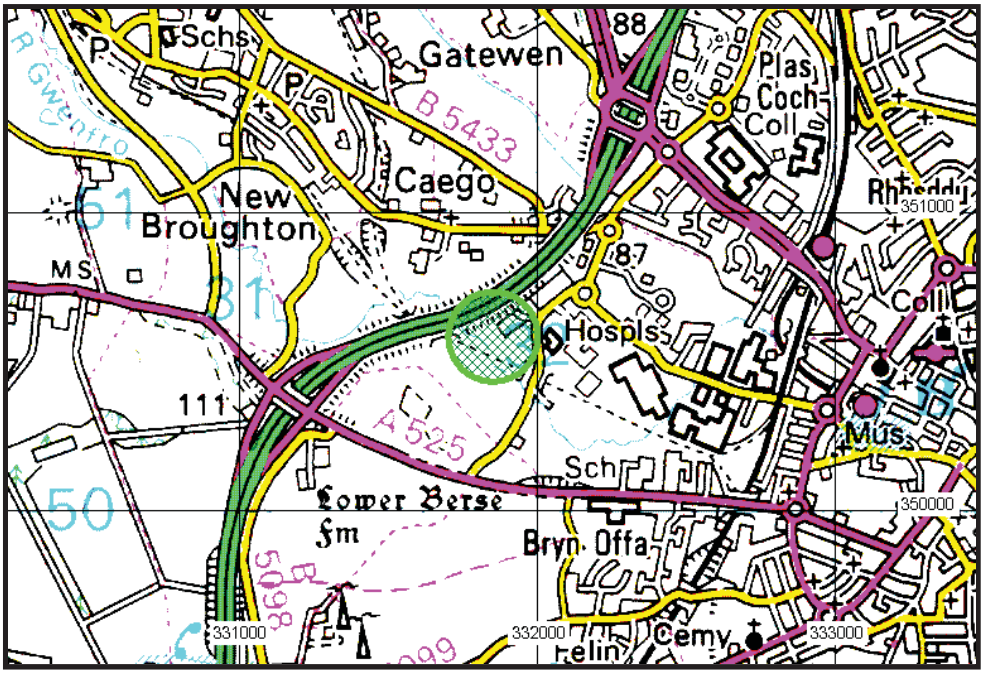
Additional remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The report is compliant with Home Information Pack requirements.

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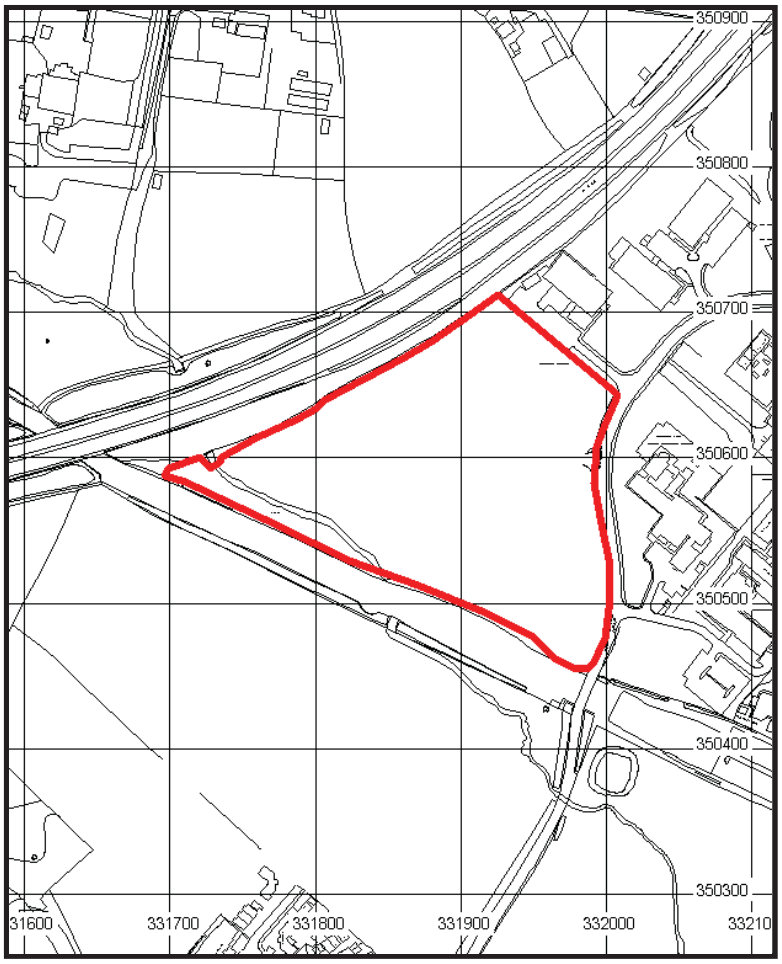
Location map

Approximate
position
of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown

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Appendix D

Geotechnical Design Note

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Project title	WAST AFSRC Wrexham	Job number	213833/61
cc	Sergio Solera Daymon Brocklebank	File reference	P030-ARU-RP-ARC-C007
Prepared by	David Lynesmith / Katherine Iles / Agnieszka Lopez-Parodi	Date	4 October 2012
Subject	Geotechnical Design Technical Note		

1.0 Purpose of this summary

This technical note has been prepared for BAM to provide geotechnical and geo-environmental assessment of the AFSRC Wrexham site, including a desk study and interpretation of the ground investigations undertaken. It provides an assessment of the foundation options for the AFSRC building and Fire Training House, the car park and access roads foundation assessment, and a geo-environmental contamination assessment of the site.

An initial assessment of the ground gas protection requirements for the buildings is included based on the first round of monitoring. However, further ground gas and water monitoring results are required to make a full assessment, in accordance with CIRIA C665 'Assessing risks posed by hazardous ground gases to buildings'.

A separate report (2012-09-07 AFSRC Wrexham - Mounds Re-use Technical Note) has been prepared for the assessment of the re-usability potential of the four soil mounds on the site.

2.0 The site and history

The site is an area of grassed undeveloped land immediately south of Wrexham Maelor Hospital and is located at National Grid Reference SJ 320 502, shown on Figure 1. The site is currently unoccupied, however part of the site was previously occupied by travellers.

The site is bounded by a car park associated with the hospital to the north and east with residential development to the south. Croesnewydd Road is located to the west of the site, the past land use has remained undeveloped fields. The river Gwenfro runs along the site's western and southern boundary. The river Gwenfro has a protected 15m 'ecology corridor' along its entire length. Access to the site can be gained via Croesnewydd Road to the west.

The topography of the site is relatively flat with the exception of four mounds up to approx 5m high. Two of these mounds are partially over the proposed AFSRC building. There are a number of trees within the site boundary although typically along the site perimeter.

Historical maps dating from 1879 have been obtained for the site as part of the Envirocheck Report. The site is shown to be greenfield except for the Wrexham & Mineral Great Western Railway line, which ran along the

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northern part of the site, shown from 1879 until 1992, where it is shown as dismantled. The proposed access road area (current car parking area of the Wrexham Maelor Hospital) is shown to be on the disused railway.

An Unexploded Ordnance (UXO) preliminary risk assessment has been undertaken based on guidance in CIRIA C681 Unexploded Ordnance (UXO): A guide for the construction industry. Based on the historical maps, the site does not have any previous uses associated with the Ministry of Defence or the use of munitions. The site is in a rural location and there were no potential wartime targets and there is no known history of bombing recorded near the site. Considering the history of the site, the indicators of potential aerial delivered UXO and the mitigating factors of the extent of post war development and the extent of the proposed works, it is concluded that a detailed risk assessment by a UXO specialist is not required.

3.0 Proposed development

It is proposed to redevelop the site as an ambulance depot comprising buildings and associated access road and car parking areas. This will result in the majority of the site being covered by either by hard standing or buildings, with limited planting areas as presented on Figure 5. It is also proposed to place a minimum of 300mm of clean imported topsoil materials in the area of planting. Currently, no development is proposed in the area south of the Gwenfro River.

Due to the flood defense requirement the development platform has been set at between 90 and 92mOD, up to 2.8m above the existing ground level. This will result in substantial cut and fill activities as part of the enabling works as presented on Figure 6.

4.0 Geology

Based on the 1:50,000 geological map (Sheet SJ35SW), the superficial geology consists of Alluvium (near the River Gwenfro) and Glaciofluvial deposits over glacial till. The solid geology consists of the Pennine Lower Coal Measures.

The following assessment of the geology of the site and ground conditions in Table 1 below has been inferred from available information obtained from existing historic BGS boreholes sunk prior to this investigation.

Table 1: Thickness of geological strata as indicated by historic BGS boreholes and desk study information

Stratum	Thickness (m)
Made Ground	1.5 -3.0 (up to 6.0 in mounds)
Alluvium and Glaciofluvial soils	3
Glacial Till	3-40
Pennine lower coal measures	>40m

The geological map shows three coal seams within the Pennine Lower Coal Measures to outcrop beneath the site. A Coal Authority Report was obtained for a site adjacent to the site and confirmed that coal seams were worked at 240m to 280m depth, last worked in 1932. As advised by the Coal Authority, any ground movement from these coal workings should have stopped by now.

5.0 Ground investigation

Two ground investigations have been undertaken for the scheme, the first by Ian Farmers Associates in 2011

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and the second by CC-Geotechnical in 2012. The factual information including logs, chemical and physical laboratory data, is provided in the following ground investigation reports:

- Ian Farmers Associates, Report No 40882, June 2011
- CC Geotechnical, Access Rd Report No 6692, July 2012
- CC Geotechnical, Soil Mounds (Includes borehole BH101) Report No 6693, July 2012

Boreholes, window samples, dynamic probes, trial pits and hand TRL probes for CBR tests were undertaken at the site. Standpipe water/gas piezometers were installed at a number of borehole/window sample locations. Figure 2 shows the location of the exploratory holes and the approximate locations of the proposed buildings.

6.0 Ground conditions at the AFSRC building and Fire Training House locations

The ground conditions encountered in exploratory holes near the footprints of the AFSRC building and Fire Training building is illustrated on the cross section Figures 3 and 4. The foundation level for the ARC building is assumed to be 91.5m OD and the foundation level for the Fire Training building is assumed to be 89.6m OD. Both the ARC building and Fire Training building will be founded on approximately 1.5m of engineered fill above ground level.

The ground conditions across the site are variable, with exploratory holes in close proximity often encountering varying ground conditions. The variability is also enhanced due to the presence of 5m high mounds on the site, one which lies over the south west corner of the proposed AFSRC building.

6.1 AFSRC building

The ground conditions encountered in exploratory holes under the footprint of the AFSRC building is shown on Figure 3 and can be summarised as follows in Table 2:

Table 2: Ground conditions under the AFSRC building, as shown on Figure 3

Stratum description	Depth to top of stratum	Thickness (m)	SPT N value
Very soft/soft CLAY / Very loose / loose SAND and GRAVEL	-	7.5	1 - 10
Firm CLAY/Medium dense SAND and GRAVEL	84mOD	5	10 - 50
Stiff CLAY / Very dense GRAVEL	79mOD	> 8	Above 50

As a result of part of the AFSRC building area being partially occupied by mounds up to 4.5m high, some of the exploratory holes were undertaken from the top of the mounds. It has been noted that the presence of the mounds may have resulted in some improvement to the physical ground properties in these areas. In situ SPTs undertaken in boreholes outside the footprint of the earth mounds are generally lower than those undertaken within the footprint.

Water was generally struck at 3m below ground level (BGL), though a perched water table may exist in areas where granular deposits overlay cohesive soils as it was the case at WS10 where water was struck at 1.5m. Ground water monitoring undertaken 2 weeks after the exploratory holes were sunk recorded water levels of 3.5m BGL (WS16) to 5.98m BGL (WS13).

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6.2 Fire Training House at the far end of the site (in the proximity of the pumping station)

The ground conditions encountered in exploratory holes under the footprint of the Fire Training House is shown on Figure 4 and can be summarised as follows in Table 3:

Table 3: Ground conditions under the Fire Training House

Stratum description	Depth to top of stratum	Thickness (m)	SPT N value
Very soft/soft SILT / Very loose / loose SAND and GRAVEL	-	6.5	1 - 10
Firm CLAY/Medium dense SAND and GRAVEL	83.1mOD	3	10 - 50
Stiff CLAY / Dense GRAVEL	80.1mOD	>12	Above 50

Water was struck first at 1.8m, rising to 1.4m in 20 minutes. It was then struck at 2.7m, rising to 2.0m in 20 minutes. Ground water monitoring undertaken 2 weeks after the exploratory holes were sunk recorded water levels of 2.06m BGL (WS19) to 4.15m BGL (BH03).

7.0 Ground gas conditions

A Radon Report was obtained from the BGS (Report Id: GR_204135/1) and advised that full radon protection measures are required for the site.

A further six rounds of ground gas monitoring results are required to make a full assessment of the ground gas protection requirements, in accordance with CIRIA C665 'Assessing risks posed by hazardous ground gases to buildings'. A file note named 'Updated Geo-Environmental scope of additional SI 2' was issued on 22 May 2012 which details the monitoring requirements.

A preliminary ground gas assessment of the 1 round of monitoring undertaken indicates a very low risk from ground gases to the proposed development. The site falls into the Characteristic Situation 1, which requires no ground gas protection measures. Therefore, no additional gas protective measures to those required due to the presence of radon would be necessary. However, this is subject to the results of further ground gas monitoring within the area of proposed development.

8.0 Foundation assessment for the AFSRC building and Fire Training House

The loading conditions assumed for the AFSRC building are 800kN for a suspended main column and 350kN for a suspended roof column, with a typical column spacing of 6.5m. The 5 storey fire training house tower will impose a bearing pressure of 90kN/m^2 over a 4m x 4m square area.

For shallow foundations to be suitable, any soft spots would need to be dug out to at least 1.5m – 2m depth and replaced with suitable granular fill. Very loose / loose SAND and GRAVEL is also present at this depth and to limit differential settlement, the entire area underneath the footprint of the buildings would need to be replaced. Groundwater is generally below 2m, but perched water may be encountered and dewatering may be required for excavations. Assuming the area is dug out to 1.5m depth, there would be a total 3m of fill on top of the potentially very loose / loose SAND and GRAVEL.

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Within the AFSRC building footprint, there would still be potential for differential settlement as the area beneath the mounds is likely to settle less than those outside the mounds. Preliminary estimates are 70 – 80mm of differential settlement between columns.

Thus for economic design, piled foundations are recommended. Due to the proximity of the Wrexham Maelor Hospital, driven piles are likely to be too noisy and CFA piles would be more appropriate. It is recommended that the piles are contractor designed with a pile capacity performance specification. Likely required depths are 15m, into the stiff CLAY/ very dense GRAVEL layer in which SPT N values increase to above 50. It is expected that required pile diameters will be in the order of 450mm, with a settlement at working load of less than 10mm.

A Piling Specification for the AFSRC building (Report Ref P030-ARU-SP-ARC-S004) was issued on 21 June 2012. It is recommended that the preferred piling contractor be interviewed, with Arup being present at the meeting.

9.0 Car park and access roads

It may be feasible to construct the car park and access road over the existing ground, provided that any soft clay, peat or very loose granular soils are removed. For CBR design, the results of the TRL Dynamic Cone Penetrometer (DCP) tests undertaken on site indicate an equilibrium CBR of 3% should be used in the design of the car park and access roads.

10.0 Buried concrete soil classification

The pH and sulphate test results undertaken on samples of exploratory holes near the proposed works fall within the BRE Special Digest 1 Design Sulphate Class DS-1 and assuming mobile groundwater conditions, the Aggressive Chemical Environment for Concrete (ACEC) class is AC-1.

11.0 Geo-environmental assessment

11.1 Review of Ground Investigation information

The 2011 ground investigation was site wide, exploratory holes excavated within the mounds have been discussed in a separate report (2012-09-07 AFSRC Wrexham - Mounds Re-use Technical Note). The 2012 ground investigation was undertaken in previously un-investigated areas; proposed access road. The 2011 ground investigation and the 2012 access road ground investigation factual reports have been reviewed to provide the following:

Site - general area

The 2011ground investigation comprised of 4No. boreholes (BH01 to BH04), 18No. windowless sample holes (WS01 to WS06, WS08 and WS10 to WS20), and 8No trial pits (TP01 to 07 and TP09 to TP29).

Topsoil was typically encountered across the site up to 0.3m thick and typically comprised dark brown gravelly sand with gravel of quartz and sandstone. No visual or olfactory evidence of significant subsurface contamination was noted. However, local occurrences of made ground, ash (WS11) and tarmac (TP04) and clinker (TP19 and TP21) were noted on occasion. Locally in the northern part of the site, in TP13 from 1m (92.5mAOD) to 1.4m (92.14mAOD) inclusions of brick, plastic, metal fragments and timber sleepers were encountered and in WS08 inclusions of brick and concrete were encountered from ground level (93mAOD) to 1.2m (91.8mAOD). This in turn was underlain by superficial deposits typically noted as brown sand and gravel.

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Access Road

During the 2012 ground investigation 8No. trial pits were excavated (TP101 to TP108) within the proposed access road situated north east of the main site area.

Made ground encountered within the northern part of the access road (TP101 to TP104) comprised 0.1m thick of grey limestone gravel. This was underlain by brown gravelly sand, with inclusions of red brick, in turn underlain by black gravelly ash fill, with inclusions of red brick, cinders, coal and tarmac typically from 1m to 2m below ground level. Trial pits excavated along the southern part of the access road (TP105 to TP108) encountered made ground from surface, dark brown very sandy silty gravel / gravelly silt with gravel of limestone, slag, clinker, red brick, concrete, and occasional ceramics and glass, in turn underlain by a black very sandy, clayey gravel / ashy fill of slag, cinders, coal, brick, concrete and limestone. The underlying superficial deposit encountered is described as light brown slightly sandy silty clay / silty sand with pockets of clay. This material was proved to 4.5m below ground level.

Sensory evidence of hydrocarbon contamination was encountered in one location. In TP105 from 2.5m to 2.8m below ground level within the north western part of the access road; blue grey staining and hydrocarbon odour was noted.

11.2 Initial conceptual site model

The purpose of this initial conceptual site model is to represent the characteristics and setting of the site to show possible relationships between contaminants, pathways and receptors.

The following information has been reviewed to inform the conceptual site model:

- Envirocheck report - obtained for an adjacent site on 21 July 2010 comprising datasheets, historical plans, geology, coal mining report and site sensitivity plan
- geotechnical design technical note – detailing the site, site history and geology
- 'what's in your back yard' section of the EA's website http://maps.environment-agency.gov.uk/wiyby
- ground investigation reports listed in Section 1 above
- proposed development plan, Figure 6
- site walkover

The site is centred on National Grid Reference 332093, 350292 west of Wrexham town centre, north-east Wales. The site is an approximately triangular area of relatively flat open undeveloped grassed land south of Wrexham Maelor Hospital and associated car park. It is proposed to develop the site as an ambulance depot with associated access road and car parking areas as shown on Figure 3. The majority of the site is to be covered in hardstanding and buildings with limited planting areas. The enabling works will involve substantial cut and fill activities to achieve a required development platform at 90mOD to 92mOD as shown on Figure 5.

This technical note relates to the entire site and the proposed access road at the north-western corner of the soil. There are currently four mounds of soil present on the main site area (referred to as Mounds 1 to 4). The locations of the exploratory holes are presented on Figure 2. The assessment of suitability of reuse of the mound materials has been undertaken and is presented in a separate technical note.

The encountered ground conditions are typically up to 0.3m thick topsoil across much of the site underlain by localized occurrences of made ground. This in turn was underlain by superficial deposits typically noted as brown sand and gravel. A review of the ground investigation information is presented in Section 10.1 above.

Historical maps dated between 1879 to 2010 shows the site to have remained open undeveloped land, and the Wrexham & Mineral Great Western Railway line ran along the northern part of the site in the location of the existing hospital car park, shown from 1879 until 1992, where it is last shown as dismantled. The proposed access road is on the line of the dismantled railway line.

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Review of the 1:50,000 scale geological plan, shows the site is underlain predominantly by glacio-fluvial deposits and a tract of alluvium along the Gwenfro River. The solid geology is the Pennine Lower Coal Measures comprising of mudstone, siltstone and sandstone.

There are no EA or Local Authority recorded landfill sites within or adjacent to the site boundary.

The only reported pollution licence within 1 km of the site, is held by Wrexham Maelor Hospital, located north of the site, a licence (ref CE0265) is held to release radioactive substances to a sewer.

The Gwenfro River flows in an easterly direction along the southern site boundary. The river Gwenfro has a protected 15m 'ecology corridor' along its entire length.

The superficial deposit and bedrock are designated as a Secondary A aquifer. Secondary A aquifers are defined by the EA as *'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers'*

There are no source protection zones or nitrate vulnerable zones within the site boundary or within 1km of the site boundary.

Source – Pathway - Receptor

The proposed development comprises predominantly buildings and hardstandings with limited low level herbaceous planting areas. It is understood that the materials contained within the mounds is proposed to be placed as fill in the areas of requiring up filling i.e. the central and eastern part of the site to achieve the required development platform level. In addition, it is proposed to place a minimum of 300mm of topsoil in the areas of planting.

The sources – pathway – receptor pollution linkages have taken this into account and a summary of the sources-pathways-receptor relationship is provided below:

Sources	pathways	receptors
Made ground, Made ground associated with the dismantled railway line in the north-western part of the site (proposed access road)	Direct contact, dermal absorption, soil ingestion during earthworks Vapour inhalation across the site during site end use. Lateral and vertical migration of contaminants (including leachate generation) via permeable unsaturated strata associated with planting areas. Uptake via root system	Human health - of construction workers involved in the development, end site users and maintenance workers Gwenfro River Groundwater – Secondary A Aquifer Proposed Buildings and structures Proposed planting areas

Summary

The proposed development of an ambulance depot will result in the majority of the site covered in hardstanding and buildings with a minimum of 300mm of topsoil placed within the planting areas. Consequently the direct pathways of exposure of end site users such as ingestion of soil and dust, and dermal contact to the fill materials will be eliminated. However, the proposed planting plots are to be located within

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the area of the development where up filling operations are currently proposed. Therefore the exposure scenario with vapour inhalation particularly of volatile hydrocarbon compounds remains viable.

In addition, rainwater infiltration in the areas of planting may result in leaching of contaminants from the fill materials via the unsaturated zone into the underlying aquifer. This contamination may then be transported laterally into the Gwenfro River.

The risk arising from the made ground materials currently present on site will be assessed in accordance with the published Contaminated Land Exposure Assessment (CLEA) framework. For the purpose of generic assessment in relation to human health the laboratory testing results undertaken on soil samples as part of 2011 and 2012 investigations will be compared with Soil Guidance Values (SGVs) for a commercial/industrial end use scenario. This is considered to be an appropriate exposure scenario for the proposed development as an ambulance station. The assessments are presented in the following sections of this note.

The proposed planting areas will be the only parts of the site where the pollution link is not broken allowing vertical and lateral migration of contaminants to take place via infiltration through the uncapped areas. This will be assessed further in the risk assessments of both the soil and leachate results from both 2011 and 2012 ground investigations in Section 6 below.

11.3 Assessment of suitability

Introduction

During both the 2011 and 2012 ground investigations a total of 7No. made ground soil samples were taken from the access road and 30 No. soil samples were taken from across the site and submitted to a suitably accredited laboratory. In addition, 2:1 leachate and Waste Acceptance Criteria (WAC) testing was also undertaken on the soil samples. The number of samples analysed are summarised in Table 4 below:

Table 4: Number of samples analysed in the access road

GI	Number of soil dry weight analyses	Number of 2:1 soil leachate	Number of 2:1 soil leachate as part of WAC suite
2011	30	0	7
2012	7	3	2

The laboratory testing suite comprised of metals, non-metals inorganics, asbestos screen, speciated Polycyclic Aromatic Hydrocarbons (PAHs), Total Petroleum Hydrocarbons (TPHs) with carbon banding C6-C40, TPH aromatics and aliphatics C5-C35, Benzene, Toluene, Ethylbenzene, Xylene (BTEX), Volatile Organic Compounds (VOCs), semi-Volatile Organic Compounds (sVOCs), 2:1 soil leachate analyses and Waste Acceptance Criteria (WAC) testing.

A location plan of the trial pits are presented on Figure 2. The analytical results from the trial pits are presented within the factual reports. Comparison with screening values are presented in Appendix A .

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Assessment Methodologies

The assessment methodologies are presented in Table 5 below:

Table 5: Assessment Methodologies

	Chemical Results	Assessment Criteria	Purpose
1	Soil dry weight	Commercial SGVs /GACs	Human health Re-use
2	2:1 Soil leachate	Environmental Quality Standards (EQS)	Re-use
3	Waste Acceptance Criteria testing	Hazardous / non-hazardous assessment and comparison with landfill waste acceptance criteria limit values	Off-site disposal

Note: SGV denotes Soil Guideline Values, GAC denotes Generic Assessment Criteria

The assessment methodologies listed in Table 5 above are described below:

1. The soil dry weight results have been compared to commercial soil screening values for human health risk assessment and re-use assessment.

2. 2:1 soil leachate results and 2:1 soil leachate results from the Waste Acceptance Criteria (WAC) suite have been compared to Environmental Quality Standards (EQS), where the EQS is dependent on water hardness; the water hardness of the receiving surface water body has been applied. The Environment Agency has provided the water hardness of the Gwenfro of 343mg/l.

3. The results of the dry weight analyses have been assessed using the HazWasteOnline™ computer package. This software allows an accurate classification of materials as hazardous or non-hazardous on the basis of the concentrations of "worst case compounds" contained within the samples. Once it is ascertained as to whether the materials are hazardous or non-hazardous, the results of the WAC leachate analyses are compared to Waste Acceptance Criteria for the relevant landfill class (inert, non hazardous, stable non-reactive hazardous).

   In summary, the laboratory analyses results of the samples obtained from the site have been assessed to:

   - Identify whether the materials are hazardous or non-hazardous (using HazWasteOnline computer model and dry weight analyses);
   - Identify to which landfill class materials would be accepted in accordance with current Waste Acceptance Criteria (based on WAC leachate analyses results – including additional limited dry weight analyses).

Soil Dry Weight Assessment

The review of the laboratory testing results indicates that all determiands were measured at concentrations below the applied assessment criteria.

In addition, the materials exhibiting evidence of hydrocarbon contamination (odour and staining) encountered between 2.5m and 2.8m in TP105 did not contain unacceptable levels of petroleum hydrocarbons in relation to the site end users with Total Petroleum Hydrocarbons measured at 252 mg/kg.

All VOC and sVOC concentrations are below the limits of detection.

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No asbestos fibres were identified.

Therefore it is considered that the made ground materials present on site are unlikely to present a significant risk to site end users. The soil chemical results comparison are presented in Appendix A.

Soil Leachate Assessment

As identified in Section 3 potential controlled waters receptors are the Gwenfro River and underlying groundwater classified as secondary A aquifer. Therefore soil and leachate testing was undertaken to inform the assessment of risk in relation to these receptors.

The soil leachate results comparison are presented in Appendix A. Cadmium, chromium, mercury and PAHs (indeno(123cd)pyrene and benzo(ghi)perylene) were measured with laboratory detection levels higher than the applied assessment criteria. Consequently, the assessment of potential risk to controlled waters cannot be undertaken for these compounds.

All metals, pH and cyanide are below the applied Environmental Quality Standards (EQS).

This initial assessment involving direct comparison with the EQS did not identified any potential contaminants of concern in relation the controlled waters receptors. Therefore, based on this, the materials beneath the site are not considered to be a risk to the development or Gwenfro surface water receptor.

11.4 Geo-environmental Summary

In summary, a detailed review of the 37No soil analytical results has been carried out on the material beneath the site and the access road for contamination screening purposes with respect to human health, which indicates all contaminants are below the Commercial guideline values and therefore are currently not considered to be a risk to the proposed development.

It is understood there will be a cut and fill exercise across the site. The latest proposed formation levels drawing is presented in Figure 5.

Site – general area
The generic assessment concluded that the made ground materials encountered across the site are unlikely to present a risk to site end users and therefore the proposed cut and fill operations are considered acceptable in relation to human health.

Access Road
The soil dry weight analyses indicate that the made ground materials encountered in the area of the access road are currently not considered to be a risk to the development.

Figure 5 indicates the western part of the access road, TP101, TP102, TP105 and TP106, is to be up filled by up to 1.2m. In particular, the location of the encountered hydrocarbon contamination in TP105 between 2.5m and 2.8m is currently proposed to be up filled by 0.8m and will lie beneath the finished access road. It is probable that the encountered hydrocarbon odour and staining on the strata is from the past land use as a railway line, which once extended across the proposed access road and the existing car park to the hospital, north of the main proposed development site. Sensory evidence of hydrocarbon contamination was not encountered elsewhere on the site. Currently, it is therefore considered that the stained material is suitable to remain in situ. However, a watching brief will be required during any earthworks undertaken in this area.

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Leachate

An assessment of soil leachate results has been undertaken in relation to the nearest surface water receptor, the Gwenfro. All metal and non-metal concentrations were below the EQS values, however some metals and two Polycyclic Aromatic Hydrocarbons (PAHs) reported laboratory limits of detection above the EQS value within the area of the proposed access road. However, further consideration taking account of attenuation and dilution processes between the proposed planting areas and the down gradient surface water receptor, the Gwenfro, all mound materials are suitable for re-use beneath hardstanding and planting areas.

12.0 Waste Characterisation Assessment

It is understood that there may be a requirement to remove some materials from across the site and some or all of the access road material off site for disposal at landfill. Should this occur, offsite disposal to landfill is considered likely, and therefore the materials require assessment in order to determine to which landfill class they could be disposed. The waste characterization assessment of materials contained within mounds has been undertaken separately and is presented in 2012-09-07 AFSRC Wrexham - Mounds Re-use Technical Note.

In accordance with the European Waste Catalogue (EWC), the materials encountered within the trial pits excavated have been classed as:

17 05 03*: Soil and stones containing dangerous substances (mirror entry)

Consequently, the dry weight analyses results obtained from across the main site and the access road (15No and 7No respectively) have been initially assessed in accordance with current waste management guidelines, in order to determine whether they contain any hazardous properties. The laboratory testing results are presented in Appendix A. No assessment has been undertaken for samples obtained from the area south of the river as currently this area is not included in the development proposals.

The results of the initial waste assessment (based on the dry weight analyses results) are presented below. It should be noted that should the contaminants recorded be identified to have potentially hazardous properties, they are (dependent on the associated hazards) either deemed to be hazardous without further assessment or are assessed further to confirm whether they are “truly hazardous”.

Initial Waste Classification Results

The results of the initial waste classification, using the HazWasteOnline model are enclosed within Appendix B. The laboratory testing results are presented in Appendix A.

The initial assessment undertaken on the dry weight analyses is presented in Table 6 below:

Table 6: Identified Hazard Property

Sample Location	Initial Classification	Hazardous Property [Risk Phrase]	Sample location	Contaminant
Main site area	Potentially hazardous	H12: produces hazardous gases when in contact with air, water or acid R32: "contact with acids liberates very toxic gas"	TP13 at 0.5m TP13 at 1.1m TP18 at 0.3m TP19 at 0.3m TP21 at 0.3m TP22 at 0.3m TP23 at 0.3m TP25 at 0.3m (2011 GI)	Total CN (0.1mg/kg or 0.00001%) Total CN (0.1mg/kg or 0.00001%) Total CN (0.1mg/kg or 0.00001%) Total CN (0.1mg/kg or 0.00001%) Total CN (0.1mg/kg or 0.00001%) Total CN (0.5mg/kg or 0.00005%) Total CN (0.4mg/kg or 0.00004%) Total CN (0.5mg/kg or 0.00005%)
Access road	Non-hazardous	None	N/A	N/A

The initial classification results on indicating potentially hazardous / non-hazardous classification are presented in Appendix B. Table 6 shows the results that have been initially classified as potentially hazardous and which require further assessment.

Potentially hazardous – across main site area

An initial potentially hazardous classification has arisen due to total Cyanide detected in a number of locations between 0.1mg/kg (0.000010%) and 0.5mg/kg (0.000050%) above the laboratory limit of detection of <0.1mg/kg. Any detectable concentration of cyanide is conservatively identified to fall under Hazard Class H12 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

The potential hazard class has been assigned Risk Phrase R32 (defined in WM2[1] Hazardous Waste Guidance and Annex II of the revised Waste Framework Directive as 'contact with acids liberates very toxic gas'). Following review of the guidance set out in Appendix C12 of the Technical Guidance WM2, it is noted that the recorded percentage make-up of cyanide in each sample ranges between (0.00001% to 0.00005%) is far less than the lowest threshold concentration (0.2%) provided in the guidance for cyanide reactions resulting in toxic gas (under risk phrase R32).

The recorded percentage concentrations of cyanide are considered to be very low. It is noted that the test detection limit applied to the cyanide analyses was predominantly 1mg/kg (which is greater than the detected concentrations in samples analysed), and all concentrations recorded at less than detectable concentrations have not been identified as potentially hazardous.

On account of the above, the sampled materials listed in Table 6 above are not considered to be hazardous by virtue of hazard class H12, and therefore a **non-hazardous** classification is deemed most appropriate.

- In summary, from review of the dry weight analyses the initial waste classification assessment shows that materials across the main site and access road are **non-hazardous**

[1] Hazardous Waste - Interpretation of the definition and classification of hazardous waste. Technical Guidance WM2. Second Edition, version 2.2). Environment Agency, Scottish Environment Protection Agency, Northern Ireland Environment Agency April 2011.

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Waste Acceptance Criteria

Non-hazardous materials can be disposed of to non-hazardous landfill sites without the need for further assessment, or can be assessed further against the criteria for disposal at an inert landfill site.

Two soil samples obtained from the access road were analysed for the full Inert Waste Acceptance Criteria suite as part of the 2012 GI. Three samples samples obtained from the main site area were subjected to soil leachate testing undertaken in accordance with the waste acceptance criteria testing. No solid waste analysis comprising; TOC, LoI, BTEX, PCBs, TPH, pH, ANC were undertaken as part of the 2011 GI.

The results of the analyses undertaken have been screened against the inert landfill criteria, the results of which are summarised below:

Access Road
Analyses of samples from TP101 at 1.25mbgl and TP103 at 0.6mbgl indicated total organic carbon to be present at levels (6.8% and 10.7% respectively) in excess of the inert waste acceptance criteria of 3%. Consequently, non-hazardous disposal is considered the most appropriate option for materials within the access road.

Main site
Review of WAC leachate analyses confirm that all samples obtained from across the site area meet inert criteria, however it is noted that solid waste analysis was not undertaken. Therefore, based on only leachate results available, disposal at a Non-hazardous landfill is considered suitable, however it is recommended that solid waste analysis is undertaken to confirm if the material meets the inert landfill waste criteria.

The appropriate landfill class is presented in Table 7 below.

Table 7: Waste Acceptance Criteria assessment

Location	Acceptable Landfill Class
Access Road	**Non-hazardous**
Main site area	**Non-hazardous** Possibly inert - subject to further testing of solid waste analysis

13.0 Conclusions and recommendations

The geo-environmental assessments undertaken on the made ground materials encountered within the main area of development and the access road indicated that these materials do not pose a risk to the site end-users and also are suitable for re-use within the scheme. This is subject to meeting the geotechnical criteria for re-use.

The waste classification undertaken on these made ground materials indicated that they are suitable for disposal at a non-hazardous facility. However, solid waste analysis testing is recommended to confirm the waste disposal option for the made ground materials encountered within the main area of development. Should these materials be found acceptable for disposal at an inert waste facility it is recommended that in the event of surplus materials being identified for off-site disposal these materials should be sourced from the area of the main development. This is considered to be a more cost effective option.

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Figures and Appendices

Figures

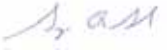
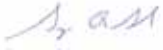
Figure 1 Site location plan
Figure 2 Exploratory Hole Location Plans
Figure 3 Geological cross section – AFSRC building
Figure 4 Geological cross section – Fire Training House
Figure 5 Proposed Formation Levels / Cut and Fill
Figure 6 Proposed Development

Appendices

Appendix A Soil and Leachate Results Comparison with Screening Values (tables and detailed assessment)
Appendix B Initial Waste Classification

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DOCUMENT CHECKING

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Signature			

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Figures

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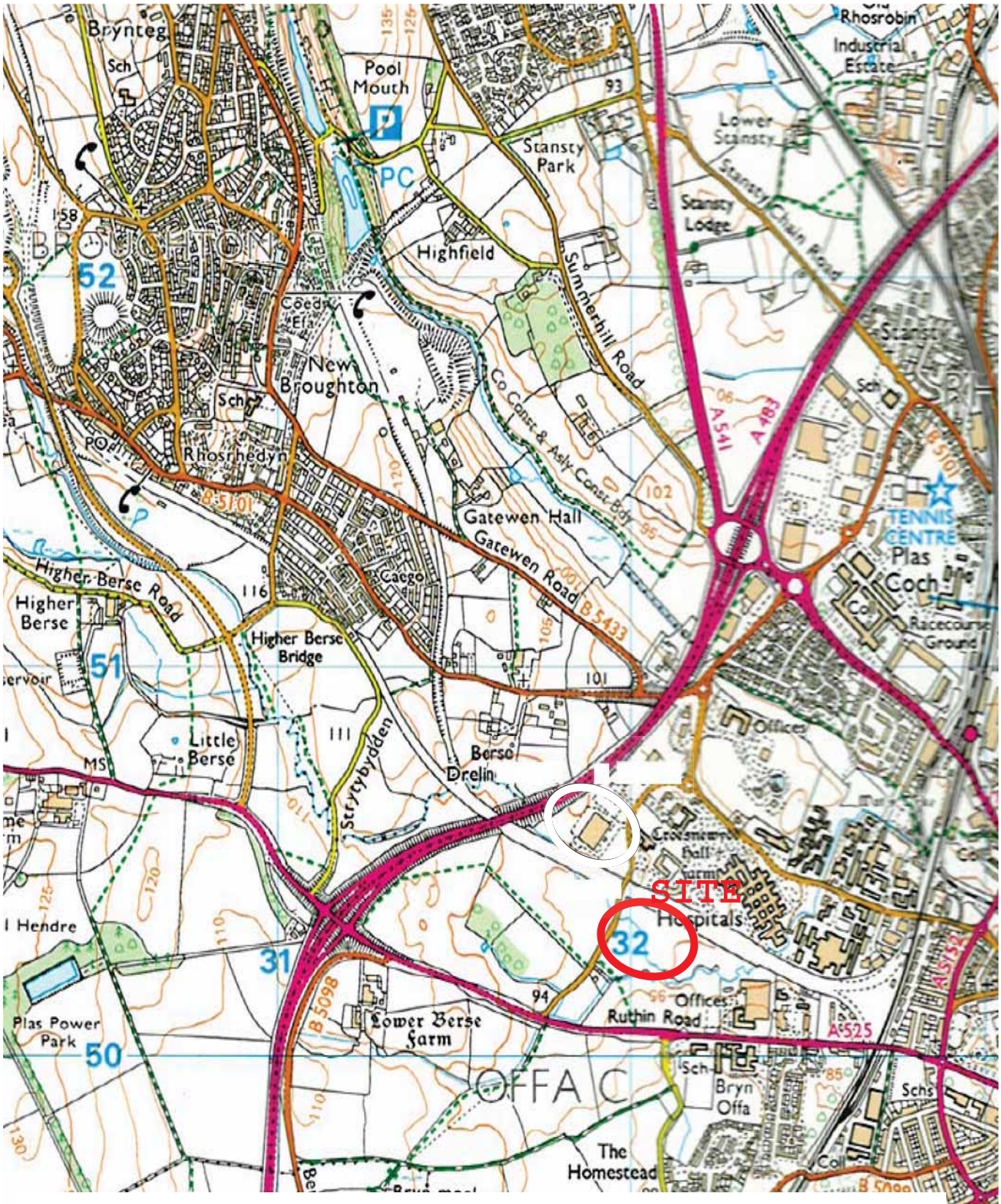
ARUP

Job Title

WAST Western Gateway

Drawing Title

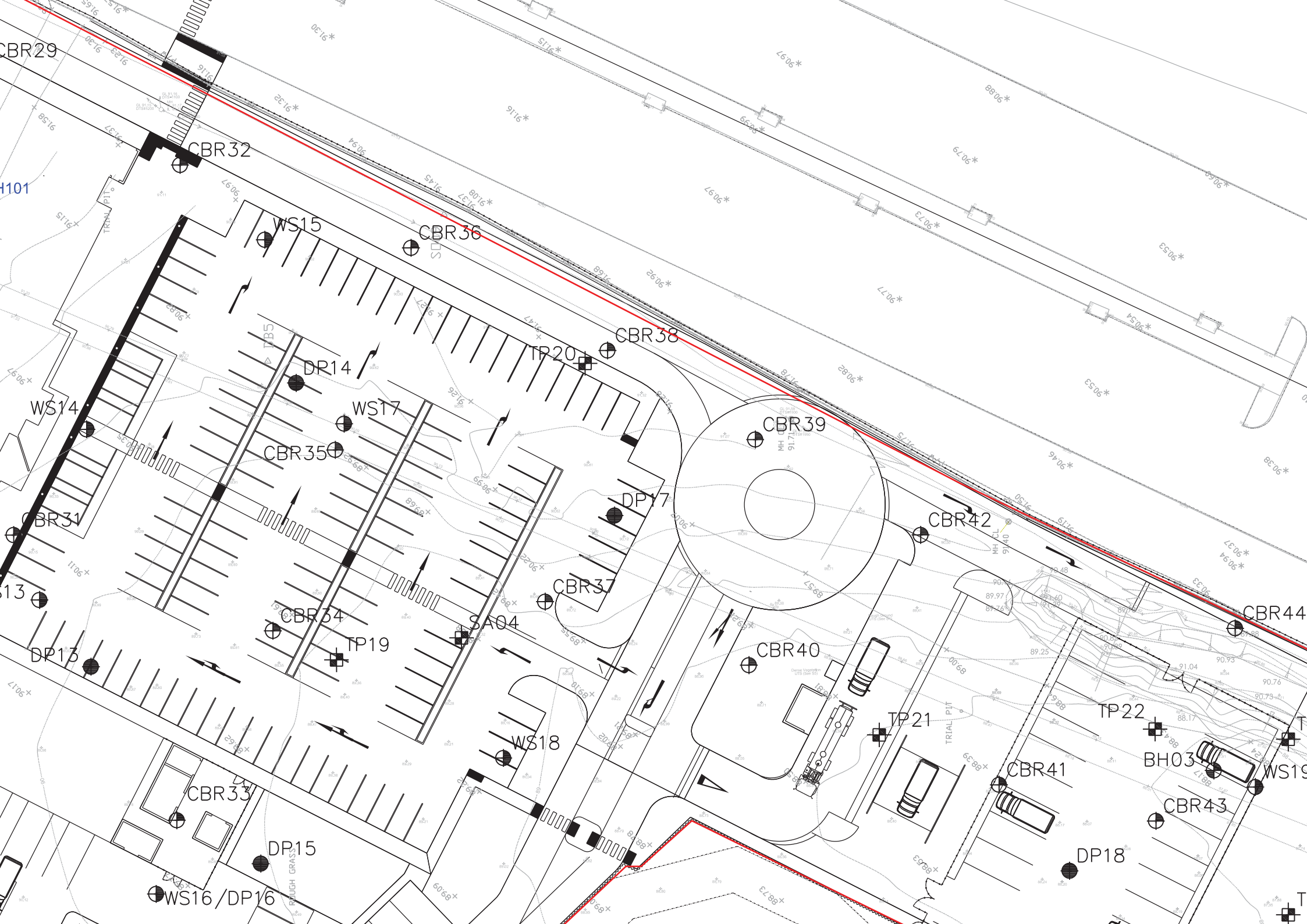
Figure 1
Site Location



Reproduced from Wrexham & Llangollen OS Explorer Map 1:25,000 scale map, by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright (2005) All rights reserved. License Number 100039628.

Do not scale

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CBR29
CBR32
WS15
CBR36
CBR38
TP20
DR14
WS14
WS17
CBR35
CBR39
DP17
CBR31
CBR42
CBR37
CBR44
CBR34
SA04
TP19
DP13
CBR40
TP21
TP22
BH03
WS18
CBR41
CBR43
CBR33
DP15
DP18
WS16/DP16

Foundation level 91.5m OD

TR18
(-16.2)
Soft SILT
Clayey, sandy GRAVEL

WS13
(6.3)
N7 Firm CLAY
N6 N7 Loose SAND and GRAVEL
N9 Loose SAND
N3 N10 Very loose SAND
[1]

(-16.2)
N6 N6 N9 N10 N17 Firm CLAY
Medium dense SAND and GRAVEL
N12 N20 Firm CLAY
slight seepage [1]
N27 N38 Medium dense SAND and GRAVEL
N68* N120* Stiff CLAY

WS14
(16.4)
N1 Soft CLAY
N8 Firm CLAY
N3 N5 N6 N10 Loose SAND and GRAVEL
[1]

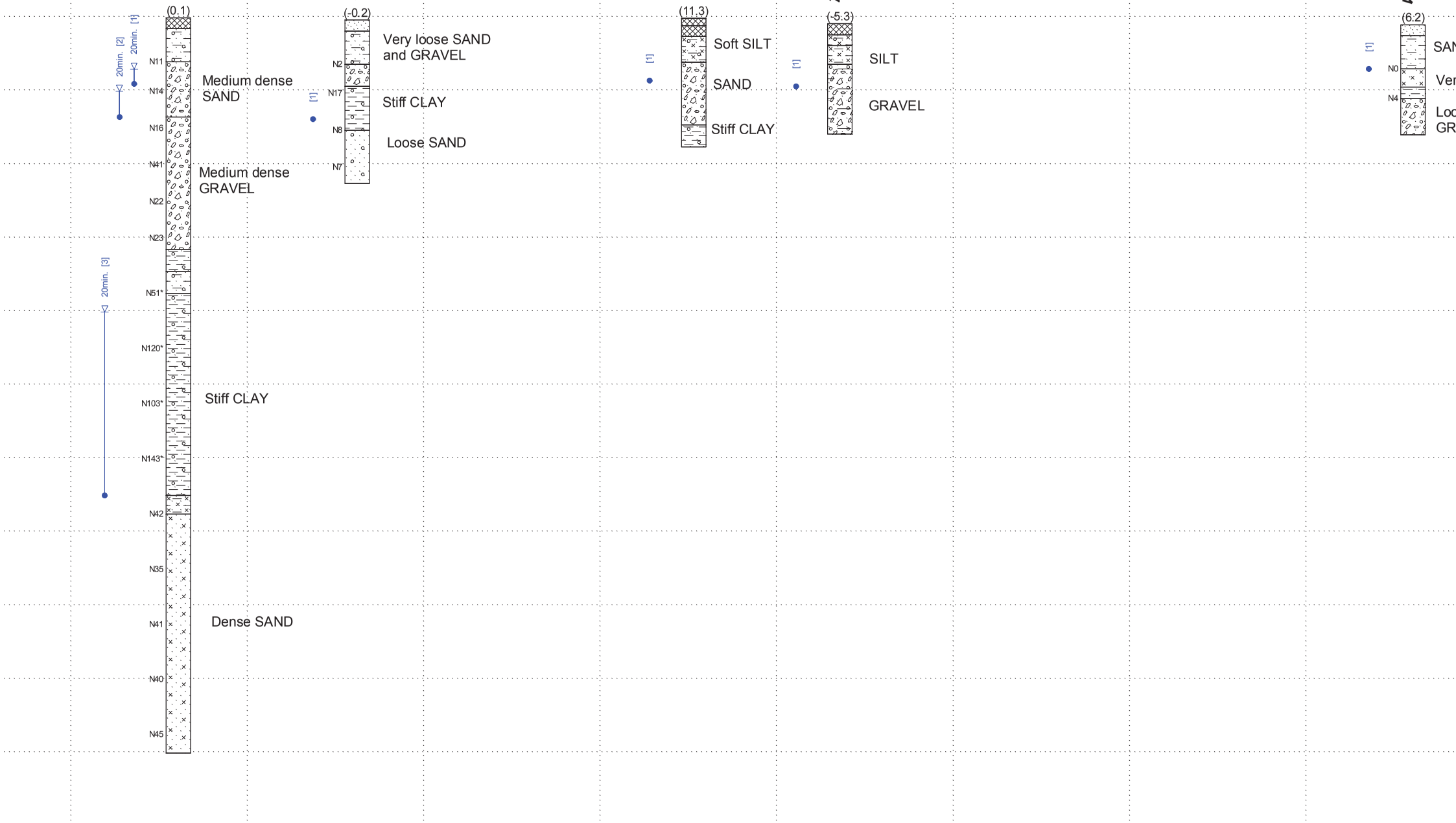
N1 N2 Very soft CLAY
N2 N3 Very loose GRAV
N3 N5 Very soft CLAY
N5 N11 Loose SAND and GRAVEL
N12 N17 Medium dense SAND and GRA
20min. [1]
N16 N37 N70 N83 Very dense GRAVEL
N81 N50 Very dense SA
N57 Dense SAND an GRAVEL
N46 N59 Dense GRAVEL

SPT N value, * denotes N extrapolated by gINT:
* from main blows
** from seating blows
N20*

PLAN



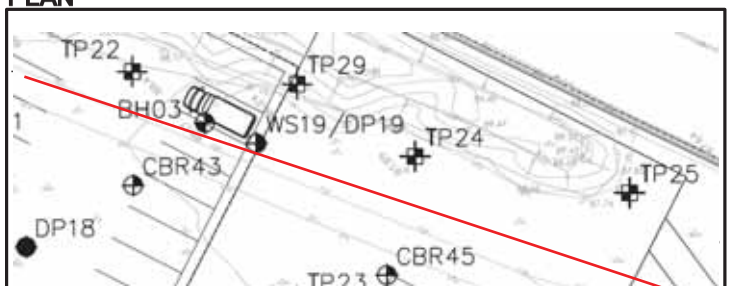
- Fill (MADE GROUND)
- SAND and GRAVEL
- Silty sandy gravelly CLAY
- Silty gravelly SAND
- Clayey sandy gravelly SILT
- TOPSOIL
- Clayey silty gravelly
- Sandy gravelly CLAY
- Clayey sandy GRAVEL
- Silty sandy GRAVEL
- Sandy GRAVEL
- Silty Clay
- Silty sandy CLAY



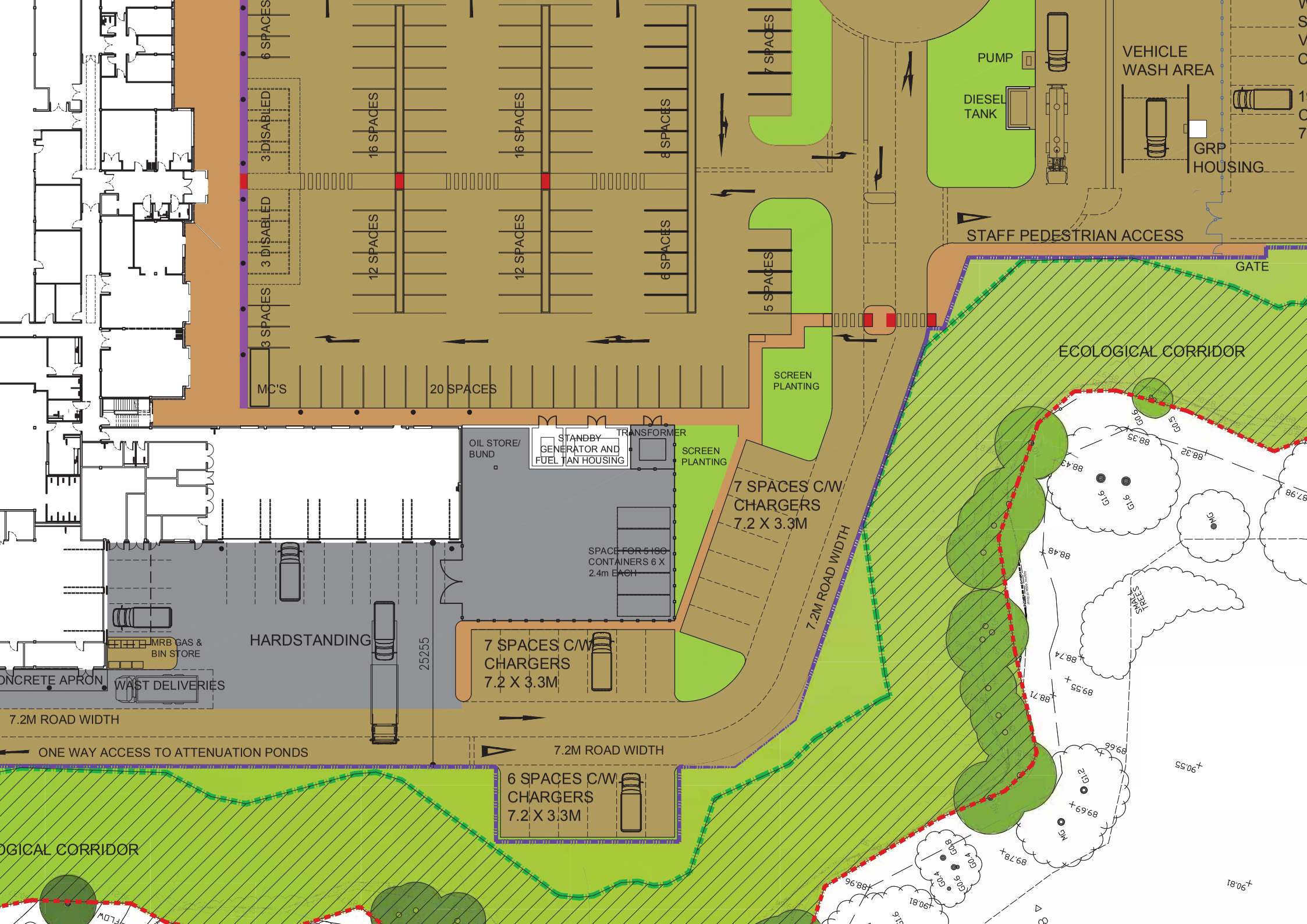
SPT N value, * denotes N extrapolated by gINT:
* from main blows
** from seating blows

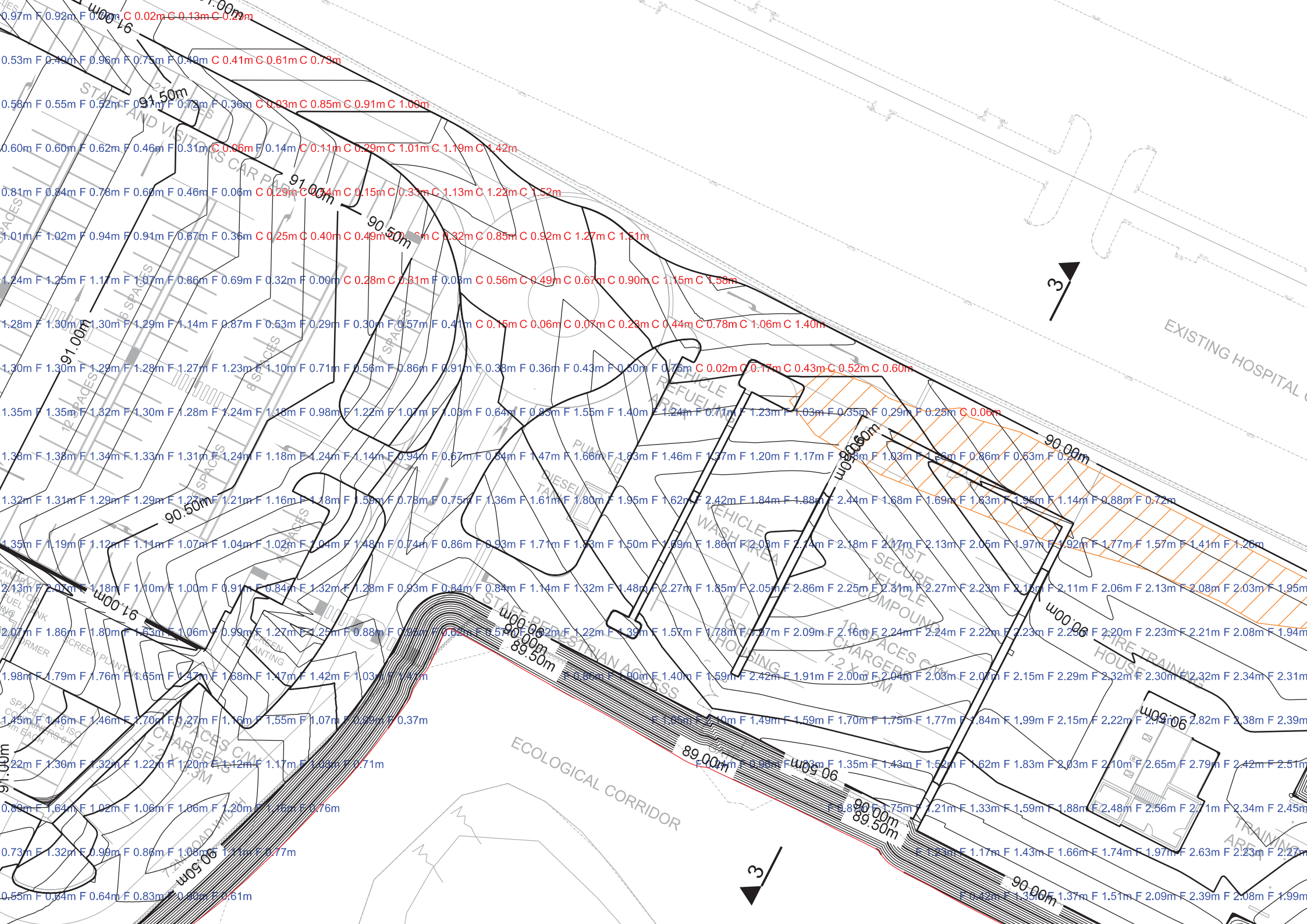
N20*

PLAN



- Fill (MADE GROUND)
- SAND and GRAVEL
- Sandy gravelly CLAY
- Silty SAND
- Clayey sandy GRAVEL
- TOPSOIL
- Clayey gravelly SAND
- Sandy GRAVEL
- Sandy clayey SILT
- Clayey sandy gravelly SILT
- Silty gravelly SAND
- Gravelly CLAY


6 SPACES
3 DISABLED
3 DISABLED
3 SPACES
16 SPACES
16 SPACES
12 SPACES
12 SPACES
8 SPACES
6 SPACES
7 SPACES
5 SPACES
MC'S
20 SPACES
PUMP
DIESEL TANK
VEHICLE WASH AREA
GRP HOUSING
STAFF PEDESTRIAN ACCESS
GATE
SCREEN PLANTING
ECOLOGICAL CORRIDOR
OIL STORE/ BUND
STANDBY GENERATOR AND FUEL TAN HOUSING
TRANSFORMER
SCREEN PLANTING
7 SPACES C/W CHARGERS 7.2 X 3.3M
7.2M ROAD WIDTH
SPACE FOR 5 ISO CONTAINERS 6 X 2.4m EACH
HARDSTANDING
MRB GAS & BIN STORE
CONCRETE APRON
WAST DELIVERIES
25255
7 SPACES C/W CHARGERS 7.2 X 3.3M
7.2M ROAD WIDTH
ONE WAY ACCESS TO ATTENUATION PONDS
7.2M ROAD WIDTH
6 SPACES C/W CHARGERS 7.2 X 3.3M
OGICAL CORRIDOR


STAFF AND VISITORS CAR PARK
EXISTING HOSPITAL
ECOLOGICAL CORRIDOR
VEHICLE REFUELLING AREA
VEHICLE WASH AREA
WASTE SECURE VEHICLE COMPOUND
10 SPACES C/W 7.2 X 3.6M CHARGERS
FIRE TRAINING HOUSE
TRAINING AREA
STAFF PEDESTRIAN ACCESS
3
91.00m
91.50m
90.50m
90.00m
89.50m
89.00m

Appendix A

Soil and soil leachate laboratory testing results

Soils: Metals and non-metal inorganics

Area	TP	Depth (m)	Lab ref	Date Sampled	Arsenic**	Cadmium**	Chromium**	Lead**	Mercury**	Nickel**	Copper**	Zinc**	Selenium**	Hexavalent Chromium	Water Soluble Boron	pH Value**	Total Cyanide**	Total Monohydric Phenols**	Total Organic Carbon	Asbestos screen
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	no units	mg/kg	mg/kg	%	
	Commercial soil screening values				**640**	**230**	**30400**	**7300**	**3600**	**1800**	**71700**	**662000**	**13000**	**35**	**192000**		**78**	**3200**		
Access road	TP101	0.50	42068	18/07/12	23.3	0.6	32	169	<0.5	21	42	316	1.3	<2	1.5	8.5	<1	<1	2.9	No Asbestos Identified
	TP101	1.25	42069	18/07/12	27.6	<0.5	21	1065	<0.5	16	16	211	1.6	<2	1.6	6.9	<1	<1	6.8	
	TP102	1.10	42070	18/07/12	36.9	0.7	21	462	<0.5	41	115	271	3.7	<2	1.4	7.8	<1	<1	9.6	No Asbestos Identified
	TP103	0.60	42071	18/07/12	41.2	0.8	61	511	<0.5	43	103	192	4.0	<2	1.5	7.9	<1	<1	10.7	No Asbestos Identified
	TP105	0.90	42072	18/07/12	25.3	0.7	41	619	<0.5	31	193	164	4.6	<2	0.8	7.7	<1	<1	12.7	No Asbestos Identified
	TP105	2.50	42073	18/07/12	19.6	0.8	31	103	<0.5	38	31	155	1.2	<2	1.8	8.2	<1	<1	9.5	
	TP106	1.60	42074	18/07/12	34.2	1.3	39	446	<0.5	28	175	108	3.1	<2	0.6	8.1	<1	<1	7.9	No Asbestos Identified
South of the river	TP01	0.30	321765	21/02/11	8.6	0.7	17	110	0.1	13	16	71	0.6			7.7	0.2			No Asbestos Identified
	TP01	1.30	321766	21/02/11	7.6	0.6	16	33	<0.05	21	16	42	0.7			8.2				
	TP02	0.20	321767	21/02/11	8.1	1.0	18	120	0.1	15	16	62	0.7			7.4	0.2			No Asbestos Identified
	TP02	0.50	321768	21/02/11												7.6				
	TP02	0.90	321769	21/02/11	8.3	0.7	16	250	<0.05	20	15	40	<0.5			8.1				
	TP03	0.30	321770	22/02/11	5.3	0.5	10	180	0.1	12	9	60	<0.5			8.4				
	TP04	0.20	321771	21/02/11	12.0	1.8	20	290	0.1	19	20	200	<0.5			8.1	0.1			No Asbestos Identified
	TP05	0.90	321772	21/02/11	8.3	0.8	15	72	<0.05	20	14	42	0.9			8.2				
	TP06	0.20	321773	22/02/11	10.0	0.9	21	480	0.1	22	22	110	0.8			6.9	0.3			No Asbestos Identified
	TP06	1.90	321774	22/02/11												7.0				
	TP07	0.30	321775	21/02/11	7.5	0.7	16	500	0.2	22	14	67	1.0			7.5				
	TP07	1.80	321776	21/02/11												7.9				
	TP09	0.40	321777	21/02/11	7.1	0.6	15	620	0.1	19	13	60	0.6			7.6	<0.1			No Asbestos Identified
	TP09	0.80	321778	21/02/11	7.6	0.7	17	260	0.1	22	12	57	1.1			7.7	<0.1			No Asbestos Identified
	TP10	0.40	321779	21/02/11	5.6	0.5	11	290	0.1	17	11	46	0.8			7.6				
	TP10	0.90	321780	21/02/11												7.9				
	TP11	0.90	321781	21/02/11	7.7	0.7	16	940	0.1	21	15	71	0.7			7.4				
	TP12	0.80	321782	21/02/11	6.6	0.5	15	290	<0.05	20	11	47	<0.5			7.7				
	WS02	0.50	321814	21/02/11	6.8	0.5	14	38	<0.05	17	11	37	0.6			8.2				
Main area of proposed development	TP13	0.50	321783	21/02/11	6.0	0.4	15	47	0.1	12	11	55	<0.5			7.5	0.1			No Asbestos Identified
	TP13	1.10	321784	21/02/11	5.1	0.2	9	27	0.1	9	9	35	<0.5			8.2	0.1			No Asbestos Identified
	TP18	0.30	321791	24/02/11	12.0	0.9	34	370	0.1	31	22	95	1.2			7.6	0.1			No Asbestos Identified
	TP18	0.70	321792	24/02/11	8.4	0.6	23	160	<0.05	23	13	65	1.5			7.9				
	TP19	0.30	321793	24/02/11	10.0	0.8	28	330	0.1	27	21	86	1.1			7.3	0.1			No Asbestos Identified
	TP20	0.30	321794	22/02/11	9.6	0.8	24	65	0.2	19	19	55	0.6			7.2	<0.1			No Asbestos Identified
	TP20	0.80	321795	22/02/11	14.0	1.2	21	40	0.1	25	15	51	<0.5			8.0	<0.1			
	TP21	0.30	321796	24/02/11	11.0	0.8	30	340	0.1	24	22	87	0.9			7.7	0.1			No Asbestos Identified
	TP21	0.90	321797	24/02/11	8.2	0.7	23	65	0.1	25	15	58	1.6			8.0				
	TP22	0.30	321798	24/02/11	6.0	0.7	12	140	0.1	17	15	120	<0.5			8.2	0.5			No Asbestos Identified
	TP23	0.30	321799	24/02/11	9.7	1.1	19	370	0.2	25	35	170	0.6			7.8	0.4			No Asbestos Identified
	TP23	0.70	321800	24/02/11	7.3	0.6	15	220	0.1	19	15	55	1.0			8.0				
	TP24	0.40	321801	24/02/11	6.2	0.5	10	280	<0.05	14	12	40	<0.5			8.0	<0.1			No Asbestos Identified
	TP25	0.30	321802	24/02/11	14.0	1.5	24	420	0.3	30	42	230	1.2			7.7	0.5			No Asbestos Identified
	TP25	0.70	321803	24/02/11	7.6	0.6	14	380	<0.05	19	12	57	0.7			8.1				

Minimum				5.1	<0.5	9.0	27.0	<0.05	9.0	9.0	35.0	<0.5	<2	0.6	6.9	<0.1	<1	2.9	
Maximum				41.2	1.8	61.0	1065.0	0.3	43.0	193.0	316.0	4.6	<2	1.8	8.5	0.5	<1	12.7	
Total number				37	37	37	37	37	37	37	37	37	7	7	41	24	7	7	

Notes

All results expressed on dry weight basis

** - MCERTS accredited test

* - UKAS accredited test

soil dry weight result above commercial soil screening value

Soils: Speciated PAHs

Area	TP	Depth (m)	Lab ref	Date Sampled	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(123-cd)pyrene	Dibenz(ah)anthracene	Benzo(ghi)perylene	Total PAH
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Commercial soil screening values				**204**	**84300**	**84900**	**63500**	**21900**	**525000**	**22600**	**54200**	**90**	**137**	**100**	**141**	**14**	**60**	**13**	**654**	
Access road	TP101	0.50	42068	18/07/12	<0.1	<0.1	<0.1	0.1	0.6	0.2	0.9	0.6	0.4	0.7	0.4	0.6	0.3	0.3	0.2	0.22	5.5
	TP101	1.25	42069	18/07/12	<0.1	0.4	1.2	0.6	1.4	2.6	4.5	1.6	8.5	6.4	5.2	4.1	3.5	1.4	2.2	1.2	44.7
	TP102	1.10	42070	18/07/12	1.3	0.6	0.6	1.3	2.2	3.6	4.5	5.2	1.7	3.5	2.2	1.1	0.92	0.7	0.3	1.3	30.9
	TP103	0.60	42071	18/07/12	2.6	1.7	1.9	2.4	4.5	5.5	13.3	15.3	8.5	5.5	4.2	3.6	5.1	3.2	2.3	1.9	81.5
	TP105	0.90	42072	18/07/12	1.3	1.8	2.3	1.2	3.7	4.1	5.3	1.7	3.3	2.6	1.4	3.3	1.5	2.2	1.1	2.6	39.3
	TP105	2.50	42073	18/07/12	4.5	2.3	3.7	0.7	5.6	8.5	7.8	6.5	4.2	4.1	2.4	3.3	2.0	2.4	2.4	1.4	61.8
	TP106	1.60	42074	18/07/12	1.7	4.2	2.5	1.7	4.7	10.4	12.9	14.3	8.9	7.6	2.4	4.5	5.5	3.9	2.6	1.4	88.9
South of the river	TP01	0.30	321765	21/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP02	0.20	321767	21/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP04	0.20	321771	21/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.2	0.3	<0.1	0.4	0.2	<0.1	0.2	2.2
	TP06	0.20	321773	22/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP09	0.40	321777	21/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP09	0.80	321778	21/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
Main area of proposed development	TP13	0.50	321783	21/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP13	1.10	321784	21/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP18	0.30	321791	24/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP19	0.30	321793	24/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP20	0.30	321794	22/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP20	0.80	321795	22/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP21	0.30	321796	24/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP22	0.30	321798	24/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP23	0.30	321799	24/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP24	0.40	321801	24/02/11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	TP25	0.30	321802	24/02/11	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.3	0.5	0.4	0.1	0.5	0.2	<0.1	0.4	3.7
	Minimum				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.6
	Maximum				**4.5**	**4.2**	**3.7**	**2.4**	**5.6**	**10.4**	**13.3**	**15.3**	**8.9**	**7.6**	**5.2**	**4.5**	**5.5**	**3.9**	**2.6**	**2.6**	**88.9**
	Total number				**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**24**

Notes

All results expressed on dry weight basis

All PAH results MCERTS accredited test

soil dry weight result above commercial soil screening value

Soils: Total Petroleum Hydrocarbons (TPH) with carbon banding

Area	TP	Depth (m)	Lab ref	Date Sampled	C_6-C_{10}	$>C_{10}$-C_{20}	$>C_{20}$-C_{30}	$>C_{30}$-C_{40}	Total Petroleum Hydrocarbons
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Commercial soil screening values				*3400**	*17000**	*28000**	*28000**	
Access road	TP101	0.50	42068	18/07/12	1	4	20	13	37
	TP103	0.60	42071	18/07/12	1	9	12	50	71

Minimum			**1**	**4**	**12**	**13**	**37**
Maximum			**1**	**9**	**20**	**50**	**71**
Total number			**2**	**2**	**2**	**2**	**2**

Notes

* Conservatively, the lowest of the aliphatic or aromatic screening values have been applied in the absence of directly comparable screening values to screen the result:

Soils: Total Petroleum Hydrocarbons (TPH) Criteria Working Group Series (CWG)

					Aromatic							**Aliphatic**												
Area	TP	Depth (m)	Lab ref	Date Sampled	$>EC_5$-EC_7	$>EC_7$-EC_8	$>EC_8$-EC_{10}	$>EC_{10}$-EC_{12}	$>EC_{12}$-EC_{16}	$>EC_{16}$-EC_{21}	$>EC_{21}$-EC_{35}	$>EC_5$-EC_6	$>EC_6$-EC_8	$>EC_8$-EC_{10}	$>EC_{10}$-EC_{12}	$>EC_{12}$-EC_{16}	$>EC_{16}$-EC_{35}	$>EC_{16}$-EC_{21}	$>EC_{21}$-EC_{35}	TPH (C_5 - C_{35})	Benzene	Toluene	Ethyl Benzene	Xylenes
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			mg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Commercial soil screening values				**28000**	**59000**	**3700**	**17000**	**36000**	**28000**	**28000**	**3400**	**8300**	**2100**	**10000**	**61000**	**1600000**	**1600000**	**1600000**		**95000**	**4400000**	**280000**	**3200000**
	TP101	0.50	42068	18/07/12																	<10	<10	<10	<10
	TP101	1.25	42069	18/07/12	<0.01	<0.01	1.9	5.6	35.3	26.5	52.5	<0.01	<0.01	2.8	16.2	15.5	32.1			188				
	TP102	1.10	42070	18/07/12	<0.01	<0.01	2.4	10.5	21.6	12.6	31.6	<0.01	<0.01	1.6	5.3	14.7	12.6			113				
	TP103	0.60	42071	18/07/12																	<10	<10	<10	<10
	TP105	0.90	42072	18/07/12	<0.01	<0.01	6.2	12.5	16.5	15.8	15.2	<0.01	<0.01	<0.1	2.6	12.5	36.6			118				
Access road	TP105	2.50	42073	18/07/12	<0.01	<0.01	12.3	31.6	65.4	48.6	18.5	<0.01	<0.01	<0.1	12.5	16.6	46.8			252				
	TP106	1.60	42074	18/07/12	<0.01	<0.01	12.6	28.5	62.3	24.8	31.5	<0.01	<0.01	2.2	15.2	12.6	66.6			256				
	TP01	0.30	321765	21/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP01	1.30	321766	21/02/11																				
	TP02	0.20	321767	21/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP02	0.90	321769	21/02/11																				
	TP03	0.30	321770	22/02/11																				
	TP04	0.20	321771	21/02/11	<0.01	<0.01	<0.01	<0.9	0.8	5.7	78.0	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	35	120				
	TP05	0.90	321772	21/02/11																				
	TP06	0.20	321773	22/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP06	1.90	321774	22/02/11																				
	TP07	0.30	321775	21/02/11																				
South of the river	TP09	0.40	321777	21/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP09	0.80	321778	21/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP13	0.50	321783	21/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	4	<10				
	TP13	1.10	321784	21/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP18	0.30	321791	24/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP18	0.70	321792	24/02/11																				
	TP19	0.30	321793	24/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP20	0.30	321794	22/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP20	0.80	321795	22/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP21	0.30	321796	24/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP21	0.90	321797	24/02/11																				
	TP22	0.30	321798	24/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	0.7	1.5	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
Main area of proposed development	TP23	0.30	321799	24/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP23	0.70	321800	24/02/11																				
	TP24	0.40	321801	24/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP25	0.30	321802	24/02/11	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	2.4	<0.01	<0.01	<0.01	<1.5	<1.2		<1.5	<3.4	<10				
	TP25	0.70	321803	24/02/11																				

Minimum			<0.01	<0.01	<0.01	<1.5	1.2	<1.5	<3.4		<0.01	<0.01	<0.1	<0.5	<0.6	<1.1			<10		<10	<10	<10	<10
Maximum			<0.01	<0.01	12.6	31.6	65.4	48.6	52.5		0.01	0.01	2.8	16.2	16.6	66.6			256.0		<10	<10	<10	<10
Total number			22	22	22	22	22	22	22		22	22	22	22	22	5	17	17	22		2	2	2	2

Notes

All results expressed on dry weight basis

All PAH results MCERTS accredited test

Soils: Volatile Organic Compounds (VOC)

TP	Depth (m)	Lab ref	Date Sampled	Benzene**	Toluene**	Ethyl Benzene**	mpXylene**	oXylene**	1, 2-Dichloroethene-cis**	1, 1-Dichloroethane**	Chloroform**	Carbontetrachloride**	1, 1, 1-Trichloroethane**	Trichloroethylene**	Tetrachloroethylene**	1, 1, 1, 2-Tetrachloroethane**	1, 1, 2, 2-Tetrachloroethane**	Chlorobenzene**	Bromobenzene**	Bromodichloromethane**	Methylethylbenzene**	1, 1-Dichloro-1-propene**	1, 2-Dichloroethene-trans	2, 2-Dichloropropane	Bromochloromethane	1, 2-Dichloroethane	Dibromomethane**	1, 2-Dichloropropane**	1, 3-Dichloro1propene**
				µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Commercial soil screening values				**95000**	**4400000**	**2800000**	**3200000**	**2600000**																					
TP105	2.50	42073	18/07/12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Minimum				**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Maximum				**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Total number				**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Soils: Semi-Volatile Organic Compounds (sVOC)

TP	Depth (m)	Lab ref	Date Sampled	Pyridine	Aniline	Phenol	Bis(2-chloroethyl) ether	Benzene, 1,3-dichloro-	Benzene, 1,4-dichloro-	Benzene, 1,2-dichloro-	Phenol, 2-methyl-	Ethane, hexachloro-	Phenol, 3-methyl-	Nitrobenzene	Isophorone	Phenol, 2-nitro-	Phenol, 2,4-dimethyl-	Methane, bis(2-chloroethoxy	Phenol, 2,4-dichloro-	1,3,4-Trichlorobenzene,	Naphthalene	4-Chloroaniline	Hexachloro-1,3-butadiene	Phenol, 4-chloro-3-methyl-	Naphthalene, 2-methyl-	Naphthalene, 1-methyl-	Hexachlorocyclopentadiene	Phenol, 2,4,6-trichloro-	Phenol, 2,4,5-trichloro-
				µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Commercial soil screening values						**2300000**																							
TP105	2.50	42073	18/07/12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	<10	<10	<10	<10	<10	<10	<10	<10
Minimum				**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**		**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Maximum				**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**		**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Total number				**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Soils: Volatile Organic Compounds (VOC)

Soils: Volatile Organic Compounds (VOC)

TP	Depth (m)	Lab ref	Date Sampled	1, 3-Dichloro1propene trans	1, 1, 2-Trichloroethane	Dibromochloromethane	1, 3-Dichloropropane	Dibromoethane**	Styrene	Propylbenzene	2-Chlorotoluene	1, 2, 4-Trimethylbenzene	4-Chlorotoluene	t-Butylbenzene	Trimethylbenzene	1-Methylpropylbenzene	o-Cymene	1, 4-Dichlorobenzene	Butylbenzene	1, 2-Dibromo-3-chloropropane	Hexachlorobutaciene	1, 2, 3-Trichlorobenzene	1, 2, 4-Trichlorobenzene	1, 3-Dichlorobenzene	1, 2-Dichlorobenzene	Bromoform
				µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Commercial soil screening values																										
TP105	2.50	42073	18/07/12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Minimum				**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Maximum				**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Total number				**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Soils: Semi-Volatile Organic Compounds (sVOC)

Soils: Semi-Volatile Organic Compounds (sVOC)

TP	Depth (m)	Lab ref	Date Sampled	Naphthalene, 2-chloro-	2-Nitroaniline	1,4-Dinitrobenzene,	Dimethylphthalate	Acenaphthylene	1,3-Dinitrobenzene	3-Nitroaniline	Acenaphthene	Dibenzofuran	2,4-Dinitrotoluene	2,3,4,6-Tetrachlorophenol,	2,3,5,6-Tetrachlorophenol,	Diethylphthalate	Fluorene	Diphenylamine	Azobenzene	4-Bromophenyl phenyl ether	Hexachlorobenzene	Pentachlorophenol	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzylbutylphthalate	Bis(2-ethylhexyl)adipate	Benzo(a)anthracene	Chrysene	Bis(2-ethylhexyl)phthalate	Benzo(b)fluoranthene
				µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Commercial soil screening values																																
TP105	2.50	42073	18/07/12	<10	<10	<10	<10	---	<10	<10	---	<10	<10	<10	<10	<10	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
Minimum				**<10**	**<10**	**<10**	**<10**		**<10**	**<10**		**<10**	**<10**	**<10**	**<10**	**<10**		**<10**	**<10**	**<10**	**<10**	**<10**					**<10**	**<10**			**<10**	
Maximum				**<10**	**<10**	**<10**	**<10**		**<10**	**<10**		**<10**	**<10**	**<10**	**<10**	**<10**		**<10**	**<10**	**<10**	**<10**	**<10**					**<10**	**<10**			**<10**	
Total number				**1**	**1**	**1**	**1**		**1**	**1**		**1**	**1**	**1**	**1**	**1**		**1**	**1**	**1**	**1**	**1**					**1**	**1**			**1**	

Soils: Volatile Organic Compounds (VOC)

TP	Depth (m)	Lab ref	Date Sampled
Commercial soil screening values			
TP105	2.50	42073	18/07/12

Minimum			
Maximum			
Total number			

Soils: Semi-Volatile Organic Compounds (sVOC)

TP	Depth (m)	Lab ref	Date Sampled	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno[1,2,3-cd]pyrene	Dibenz(ah)anthracene	Benzo(ghi)perylene
				µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Commercial soil screening values								
TP105	2.50	42073	18/07/12	---	---	---	---	---

Minimum								
Maximum								
Total number								

2:1 Leachate (soil): Metals and non-metal inorganics including 2:1 leachate from Waste Acceptance Criteria (WAC) suite

Area	TP	Depth (m)	Lab ref	Date Sampled	Arsenic	Cadmium	Chromium	Lead	Nickel	Copper	Zinc	Mercury	Selenium	pH Value	Total Cyanide	From WAC suite
					µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l		µg/l	
	Environmental Quality Standard (EQS)				**50**	**0.25***	**4.7**	**7.2**	**20**	**28***	**125***	**0.05**	**10****	**6 to 9**	**1**	
	TP101	1.25	42069	18/07/12	6	<1	<5	6	<5	<5	12	<0.1	8	7.6		*
	TP102	1.10	42070	18/07/12	6	<1	<5	2	<1	<5	12	<0.1	<5	7.5	<5	
	TP103	0.60	42071	18/07/12	<5	<1	<5	5	<5	12	21	<0.1	<5	7.8		*
Access	TP105	0.90	42072	18/07/12	<5	<1	<5	<1	<1	<5	9	<0.1	<5	7.6	<5	
road	TP106	1.60	42074	18/07/12	<5	<1	<5	<1	<1	<5	7	<0.1	<5	7.5	<5	
South of	TP04	0.2	321833	12/04/11	1	<2	<5	<4	<10	8	13	<0.05	<3			*
the river	WS02	0.5	321867	12/04/11	<1	<2	<5	<4	<10	<2	8	<0.05	<3			*
	SA03	0.8	321829	12/04/11	<1	<2	<5	<4	<10	<2	<1	<0.05	<3			*
	SA04	0.2	321831	12/04/11	<1	<2	<5	<4	<10	<2	5	<0.05	<3			*
Main site	TP13	1.8	321835	12/04/11	<1	<2	<5	<4	<10	<2	1	<0.05	<3			*

Minimum				<1	<1	<5	<1	<1	<2	<1	<0.05	<3	7.5	<5	
Maximum				6	<2	<5	6	10	12	21	0.1	8	7.8	<5	
Total number				10	10	10	10	10	10	10	10	10	5	3	

2:1 Leachate (soil): Speciated PAHs

Area	TP	Depth (m)	Lab ref	Date Sampled	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(123-cd)pyrene	Benzo(ghi)perylene	Dibenz(ah)anthracene	Total PAH
					µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
	Environmental Quality Standard (EQS)				**2.4**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**0.1**	**n/a**	**n/a**	**n/a**	**0.03**		**0.05**	**0.002**		**n/a**	**n/a**
	TP102	1.10	42070	18/07/12	0.13	0.06	0.04	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.28
Access	TP105	0.90	42072	18/07/12	0.06	0.05	0.13	0.04	0.03	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.34
road	TP106	1.60	42074	18/07/12	0.09	0.02	0.16	0.08	0.05	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.45

Minimum				0.06	0.02	0.04	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.28
Maximum				0.13	0.06	0.16	0.08	0.05	0.03	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.45
Total number				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Notes

*water hardness dependent

**Drinking Water standard

EQS based on water hardness of 343mg/l for Gwenfro (provided by the Environment Agency)

EQS values applied are freshwater annual averages for inland waters

laboratory limit of detection is above the EQS

Appendix B

Waste classification

Job name

Site and access road

Waste stream

WAST Wrexham

Comments

Report

Created by: Dymock, Lisa
Created date: 20/09/2012 08:59

Job summary

#	Sample name	Depth	Classification result	Hazardous properties
1	TP101 0.5		Non Hazardous	
2	TP101 1.25		Non Hazardous	
3	TP102 1.1		Non Hazardous	
4	TP103 0.6		Non Hazardous	
5	TP105 0.9		Non Hazardous	
6	TP105 2.5		Non Hazardous	
7	TP106 1.6		Non Hazardous	
8	TP01 0.3		Potentially Hazardous	H12
9	TP01 1.3		Non Hazardous	
10	TP02 0.2		Potentially Hazardous	H12
11	TP02 0.5		Non Hazardous	
12	TP02 0.9		Non Hazardous	
13	TP03 0.3		Non Hazardous	
14	TP04 0.2		Potentially Hazardous	H12
15	TP05 0.9		Non Hazardous	
16	TP06 0.2		Potentially Hazardous	H12
17	TP06 1.9		Non Hazardous	
18	TP07 0.3		Non Hazardous	
19	TP07 1.8		Non Hazardous	
20	TP09 0.4		Non Hazardous	
21	TP09 0.8		Non Hazardous	
22	TP10 0.4		Non Hazardous	
23	TP10 0.9		Non Hazardous	
24	TP11 0.9		Non Hazardous	
25	TP12 0.8		Non Hazardous	
26	TP13 0.5		Potentially Hazardous	H12
27	TP13 1.1		Potentially Hazardous	H12
28	TP18 0.3		Potentially Hazardous	H12
29	TP18 0.7		Non Hazardous	
30	TP19 0.3		Potentially Hazardous	H12
31	TP20 0.3		Non Hazardous	
32	TP20 0.8		Non Hazardous	
33	TP21 0.3		Potentially Hazardous	H12
34	TP21 0.9		Non Hazardous	
35	TP22 0.3		Potentially Hazardous	H12
36	TP23 0.3		Potentially Hazardous	H12
37	TP23 0.7		Non Hazardous	
38	TP24 0.4		Non Hazardous	
39	TP25 0.3		Potentially Hazardous	H12
40	TP25 0.7		Non Hazardous	

#	Sample name	Depth	Classification result	Hazardous properties
41	WS02 0.5		Non Hazardous	

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
□ymo□□□□sa
Date:
□□□□□□□□□□□□□□□□
Telephone:
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Company:
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Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0020%)

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.026%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00020%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 23.3 mg/kg, converted to compound conc.:30.76 mg/kg or 0.0031%)
Cadmium sulphide: (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.77 mg/kg or 0.000077%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 169 mg/kg, converted to compound conc.:263.61 mg/kg or 0.026%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"

Nickel dihydroxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:33.17 mg/kg or 0.0033%)
Copper (I) oxide: (Cation conc. entered: 42 mg/kg, converted to compound conc.:47.29 mg/kg or 0.0047%)
Zinc chromate: (Cation conc. entered: 316 mg/kg, converted to compound conc.:876.63 mg/kg or 0.088%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:1.95 mg/kg or 0.00020%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:20.14 mg/kg or 0.0020%)
pH: (Whole concentration entered as: 8.5 pH or 8.50 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Benzo[a]anthracene: (Whole concentration entered as: 0.4 mg/kg or 0.000040%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.3 mg/kg or 0.000030%)
Benzo[b]fluoranthene: (Whole concentration entered as: 0.4 mg/kg or 0.000040%)
Benzo[ghi]perylene: (Whole concentration entered as: 0.22 mg/kg or 0.000022%)
Benzo[k]fluoranthene: (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Chrysene: (Whole concentration entered as: 0.7 mg/kg or 0.000070%)
Dibenz[a,h]anthracene: (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Fluoranthene: (Whole concentration entered as: 0.9 mg/kg or 0.000090%)
Fluorene: (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Indeno[123-cd]pyrene: (Whole concentration entered as: 0.3 mg/kg or 0.000030%)
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Pyrene: (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

□otes ut□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"
Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluorene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Dibenz[a,h]anthracene"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Phenanthrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ersion

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
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Date:
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Telephone:
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Company:
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Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□□ □□□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0021%)

R□□ "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.16%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00024%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 27.6 mg/kg, converted to compound conc.:36.44 mg/kg or 0.0036%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1065 mg/kg, converted to compound conc.:1608.15 mg/kg or 0.16%)

Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:25.27 mg/kg or 0.0025%)
Copper (I) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:18.01 mg/kg or 0.0018%)
Zinc chromate: (Cation conc. entered: 211 mg/kg, converted to compound conc.:585.34 mg/kg or 0.059%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.6 mg/kg, converted to compound conc.:2.40 mg/kg or 0.00024%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.6 mg/kg, converted to compound conc.:21.49 mg/kg or 0.0021%)
pH: (Whole concentration entered as: 6.9 pH or 6.90 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: 1.2 mg/kg or 0.00012%)
Acenaphthylene: (Whole concentration entered as: 0.4 mg/kg or 0.000040%)
Anthracene: (Whole concentration entered as: 2.6 mg/kg or 0.00026%)
Benzo[a]anthracene: (Whole concentration entered as: 8.5 mg/kg or 0.00085%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 3.5 mg/kg or 0.00035%)
Benzo[b]fluoranthene: (Whole concentration entered as: 5.2 mg/kg or 0.00052%)
Benzo[ghi]perylene: (Whole concentration entered as: 1.2 mg/kg or 0.00012%)
Benzo[k]fluoranthene: (Whole concentration entered as: 4.1 mg/kg or 0.00041%)
Chrysene: (Whole concentration entered as: 6.4 mg/kg or 0.00064%)
Dibenz[a,h]anthracene: (Whole concentration entered as: 2.2 mg/kg or 0.00022%)
Fluoranthene: (Whole concentration entered as: 4.5 mg/kg or 0.00045%)
Fluorene: (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Indeno[123-cd]pyrene: (Whole concentration entered as: 1.4 mg/kg or 0.00014%)
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: 1.4 mg/kg or 0.00014%)
Pyrene: (Whole concentration entered as: 1.6 mg/kg or 0.00016%)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 84.6 mg/kg or 0.0085%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 4.71 mg/kg or 0.00047%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 99.05 mg/kg or 0.0099%)

□otes ut□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"
Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Phenanthrene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Does the waste contain two or more substances that are classified as dangerous for the environment with aquatic risk phrases? The additive equations are only used where two or more ecotoxic substances are present."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E table

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"
determinand: "Arsenic trioxide"

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

Classified by

Name:
Dymock
Date:
Telephone:
Company:
Ove Arup & Partners International
Eastern Area Office
Capital Waters Office
Cardiff
CF10 4AJ

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazardous properties

None identified

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0019%)

R "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.072%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00056%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 36.9 mg/kg, converted to compound conc.:48.72 mg/kg or 0.0049%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 462 mg/kg, converted to compound conc.:720.63 mg/kg or 0.072%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"

Nickel dihydroxide: (Cation conc. entered: 41 mg/kg, converted to compound conc.:64.76 mg/kg or 0.0065%)
Copper (I) oxide: (Cation conc. entered: 115 mg/kg, converted to compound conc.:129.48 mg/kg or 0.013%)
Zinc chromate: (Cation conc. entered: 271 mg/kg, converted to compound conc.:751.79 mg/kg or 0.075%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 3.7 mg/kg, converted to compound conc.:5.55 mg/kg or 0.00056%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.4 mg/kg, converted to compound conc.:18.80 mg/kg or 0.0019%)
pH: (Whole concentration entered as: 7.8 pH or 7.80 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Acenaphthylene: (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Anthracene: (Whole concentration entered as: 3.6 mg/kg or 0.00036%)
Benzo[a]anthracene: (Whole concentration entered as: 1.7 mg/kg or 0.00017%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.92 mg/kg or 0.000092%)
Benzo[b]fluoranthene: (Whole concentration entered as: 2.2 mg/kg or 0.00022%)
Benzo[ghi]perylene: (Whole concentration entered as: 1.3 mg/kg or 0.00013%)
Benzo[k]fluoranthene: (Whole concentration entered as: 1.1 mg/kg or 0.00011%)
Chrysene: (Whole concentration entered as: 3.5 mg/kg or 0.00035%)
Dibenz[a,h]anthracene: (Whole concentration entered as: 0.3 mg/kg or 0.000030%)
Fluoranthene: (Whole concentration entered as: 4.5 mg/kg or 0.00045%)
Fluorene: (Whole concentration entered as: 1.3 mg/kg or 0.00013%)
Indeno[123-cd]pyrene: (Whole concentration entered as: 0.7 mg/kg or 0.000070%)
Naphthalene: (Whole concentration entered as: 1.3 mg/kg or 0.00013%)
Phenanthrene: (Whole concentration entered as: 2.2 mg/kg or 0.00022%)
Pyrene: (Whole concentration entered as: 5.2 mg/kg or 0.00052%)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 44.2 mg/kg or 0.0044%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 3.95 mg/kg or 0.00040%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 64.68 mg/kg or 0.0065%)

Notes used in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"
Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Cut-off step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluorene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Dibenz[a,h]anthracene"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Naphthalene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Acenaphthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Phenanthrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ersion

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

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Telephone:
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Sample Name:
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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0020%)

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.080%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00060%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 41.2 mg/kg, converted to compound conc.:54.40 mg/kg or 0.0054%)
Cadmium sulphide: (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.03 mg/kg or 0.00010%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 511 mg/kg, converted to compound conc.:797.07 mg/kg or 0.080%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"

Nickel dihydroxide: (Cation conc. entered: 43 mg/kg, converted to compound conc.:67.92 mg/kg or 0.0068%)
Copper (I) oxide: (Cation conc. entered: 103 mg/kg, converted to compound conc.:115.97 mg/kg or 0.012%)
Zinc chromate: (Cation conc. entered: 192 mg/kg, converted to compound conc.:532.64 mg/kg or 0.053%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 4 mg/kg, converted to compound conc.:6.00 mg/kg or 0.00060%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:20.14 mg/kg or 0.0020%)
pH: (Whole concentration entered as: 7.9 pH or 7.90 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: 1.9 mg/kg or 0.00019%)
Acenaphthylene: (Whole concentration entered as: 1.7 mg/kg or 0.00017%)
Anthracene: (Whole concentration entered as: 5.5 mg/kg or 0.00055%)
Benzo[a]anthracene: (Whole concentration entered as: 8.5 mg/kg or 0.00085%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 5.1 mg/kg or 0.00051%)
Benzo[b]fluoranthene: (Whole concentration entered as: 4.2 mg/kg or 0.00042%)
Benzo[ghi]perylene: (Whole concentration entered as: 1.9 mg/kg or 0.00019%)
Benzo[k]fluoranthene: (Whole concentration entered as: 3.6 mg/kg or 0.00036%)
Chrysene: (Whole concentration entered as: 5.5 mg/kg or 0.00055%)
Dibenz[a,h]anthracene: (Whole concentration entered as: 2.3 mg/kg or 0.00023%)
Fluoranthene: (Whole concentration entered as: 13.3 mg/kg or 0.0013%)
Fluorene: (Whole concentration entered as: 2.4 mg/kg or 0.00024%)
Indeno[123-cd]pyrene: (Whole concentration entered as: 3.2 mg/kg or 0.00032%)
Naphthalene: (Whole concentration entered as: 2.6 mg/kg or 0.00026%)
Phenanthrene: (Whole concentration entered as: 4.5 mg/kg or 0.00045%)
Pyrene: (Whole concentration entered as: 15.3 mg/kg or 0.0015%)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0 mg/kg or 0%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0 mg/kg or 0%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 0 mg/kg or 0%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"
Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluorene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Dibenz[a,h]anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Naphthalene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Acenaphthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Phenanthrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word ‘Also’."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ers on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
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Date:
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Telephone:
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Sample Name:
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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0011%)

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.097%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00069%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 25.3 mg/kg, converted to compound conc.:33.40 mg/kg or 0.0033%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 619 mg/kg, converted to compound conc.:965.53 mg/kg or 0.097%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"

Nickel dihydroxide: (Cation conc. entered: 31 mg/kg, converted to compound conc.:48.96 mg/kg or 0.0049%)
Copper (I) oxide: (Cation conc. entered: 193 mg/kg, converted to compound conc.:217.30 mg/kg or 0.022%)
Zinc chromate: (Cation conc. entered: 164 mg/kg, converted to compound conc.:454.96 mg/kg or 0.045%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 4.6 mg/kg, converted to compound conc.:6.90 mg/kg or 0.00069%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:10.74 mg/kg or 0.0011%)
pH: (Whole concentration entered as: 7.7 pH or 7.70 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: 2.3 mg/kg or 0.00023%)
Acenaphthylene: (Whole concentration entered as: 1.8 mg/kg or 0.00018%)
Anthracene: (Whole concentration entered as: 4.1 mg/kg or 0.00041%)
Benzo[a]anthracene: (Whole concentration entered as: 3.3 mg/kg or 0.00033%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 1.5 mg/kg or 0.00015%)
Benzo[b]fluoranthene: (Whole concentration entered as: 1.4 mg/kg or 0.00014%)
Benzo[ghi]perylene: (Whole concentration entered as: 2.6 mg/kg or 0.00026%)
Benzo[k]fluoranthene: (Whole concentration entered as: 3.3 mg/kg or 0.00033%)
Chrysene: (Whole concentration entered as: 2.6 mg/kg or 0.00026%)
Dibenz[a,h]anthracene: (Whole concentration entered as: 1.1 mg/kg or 0.00011%)
Fluoranthene: (Whole concentration entered as: 5.3 mg/kg or 0.00053%)
Fluorene: (Whole concentration entered as: 1.2 mg/kg or 0.00012%)
Indeno[123-cd]pyrene: (Whole concentration entered as: 2.2 mg/kg or 0.00022%)
Naphthalene: (Whole concentration entered as: 1.3 mg/kg or 0.00013%)
Phenanthrene: (Whole concentration entered as: 3.7 mg/kg or 0.00037%)
Pyrene: (Whole concentration entered as: 1.7 mg/kg or 0.00017%)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 51.8 mg/kg or 0.0052%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 6.34 mg/kg or 0.00063%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 59.9 mg/kg or 0.0060%)

Notes used in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"
Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Cut-off step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluorene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Dibenz[a,h]anthracene"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Naphthalene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Acenaphthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Phenanthrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

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Sample Name:
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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□**t□na□□□□t□na□R□s□ □□rases** "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0024%)

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.016%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00018%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 19.6 mg/kg, converted to compound conc.:25.88 mg/kg or 0.0026%)
Cadmium sulphide: (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.03 mg/kg or 0.00010%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 103 mg/kg, converted to compound conc.:160.66 mg/kg or 0.016%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"

Nickel dihydroxide: (Cation conc. entered: 38 mg/kg, converted to compound conc.:60.02 mg/kg or 0.0060%)
Copper (I) oxide: (Cation conc. entered: 31 mg/kg, converted to compound conc.:34.90 mg/kg or 0.0035%)
Zinc chromate: (Cation conc. entered: 155 mg/kg, converted to compound conc.:429.99 mg/kg or 0.043%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:1.80 mg/kg or 0.00018%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.8 mg/kg, converted to compound conc.:24.17 mg/kg or 0.0024%)
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: 3.7 mg/kg or 0.00037%)
Acenaphthylene: (Whole concentration entered as: 2.3 mg/kg or 0.00023%)
Anthracene: (Whole concentration entered as: 8.5 mg/kg or 0.00085%)
Benzo[a]anthracene: (Whole concentration entered as: 4.2 mg/kg or 0.00042%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 2 mg/kg or 0.00020%)
Benzo[b]fluoranthene: (Whole concentration entered as: 2.4 mg/kg or 0.00024%)
Benzo[ghi]perylene: (Whole concentration entered as: 1.4 mg/kg or 0.00014%)
Benzo[k]fluoranthene: (Whole concentration entered as: 3.3 mg/kg or 0.00033%)
Chrysene: (Whole concentration entered as: 4.1 mg/kg or 0.00041%)
Dibenz[a,h]anthracene: (Whole concentration entered as: 2.4 mg/kg or 0.00024%)
Fluoranthene: (Whole concentration entered as: 7.8 mg/kg or 0.00078%)
Fluorene: (Whole concentration entered as: 0.7 mg/kg or 0.000070%)
Indeno[123-cd]pyrene: (Whole concentration entered as: 2.4 mg/kg or 0.00024%)
Naphthalene: (Whole concentration entered as: 4.5 mg/kg or 0.00045%)
Phenanthrene: (Whole concentration entered as: 5.6 mg/kg or 0.00056%)
Pyrene: (Whole concentration entered as: 6.5 mg/kg or 0.00065%)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 65.3 mg/kg or 0.0065%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 12.44 mg/kg or 0.0012%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 174.7 mg/kg or 0.017%)

□otes ut□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"
Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluorene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Dibenz[a,h]anthracene"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Naphthalene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Acenaphthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Phenanthrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ersion

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Sample Name:
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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□**t□ona□□ □□t□ona□R□s□ □□rases** "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.00081%)

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.070%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00046%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 34.2 mg/kg, converted to compound conc.:45.16 mg/kg or 0.0045%)
Cadmium sulphide: (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:1.67 mg/kg or 0.00017%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 446 mg/kg, converted to compound conc.:695.68 mg/kg or 0.070%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"

Nickel dihydroxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:44.23 mg/kg or 0.0044%)
Copper (I) oxide: (Cation conc. entered: 175 mg/kg, converted to compound conc.:197.03 mg/kg or 0.020%)
Zinc chromate: (Cation conc. entered: 108 mg/kg, converted to compound conc.:299.61 mg/kg or 0.030%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 3.1 mg/kg, converted to compound conc.:4.65 mg/kg or 0.00046%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:8.06 mg/kg or 0.00081%)
pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: 2.5 mg/kg or 0.00025%)
Acenaphthylene: (Whole concentration entered as: 4.2 mg/kg or 0.00042%)
Anthracene: (Whole concentration entered as: 10.4 mg/kg or 0.0010%)
Benzo[a]anthracene: (Whole concentration entered as: 8.9 mg/kg or 0.00089%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 5.5 mg/kg or 0.00055%)
Benzo[b]fluoranthene: (Whole concentration entered as: 2.4 mg/kg or 0.00024%)
Benzo[ghi]perylene: (Whole concentration entered as: 1.4 mg/kg or 0.00014%)
Benzo[k]fluoranthene: (Whole concentration entered as: 4.5 mg/kg or 0.00045%)
Chrysene: (Whole concentration entered as: 7.6 mg/kg or 0.00076%)
Dibenz[a,h]anthracene: (Whole concentration entered as: 2.6 mg/kg or 0.00026%)
Fluoranthene: (Whole concentration entered as: 12.9 mg/kg or 0.0013%)
Fluorene: (Whole concentration entered as: 1.7 mg/kg or 0.00017%)
Indeno[123-cd]pyrene: (Whole concentration entered as: 3.9 mg/kg or 0.00039%)
Naphthalene: (Whole concentration entered as: 1.7 mg/kg or 0.00017%)
Phenanthrene: (Whole concentration entered as: 4.7 mg/kg or 0.00047%)
Pyrene: (Whole concentration entered as: 14.3 mg/kg or 0.0014%)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 98.13 mg/kg or 0.0098%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 14.84 mg/kg or 0.0015%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 143.4 mg/kg or 0.014%)

□otes ut□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"
Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluorene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Dibenz[a,h]anthracene"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Naphthalene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Acenaphthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Phenanthrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ersion

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Ove Arup & Partners International
Eastern Eagle Street
Capital Waterside
Cardiff
CF10 4BH

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous until proven otherwise

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000020%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.017%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000090%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 8.6 mg/kg, converted to compound conc.:11.35 mg/kg or 0.0011%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Lead chromate: (Cation conc. entered: 110 mg/kg, converted to compound conc.:171.58 mg/kg or 0.017%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)

Nickel dihydroxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:20.53 mg/kg or 0.0021%)
Copper (I) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:18.01 mg/kg or 0.0018%)
Zinc chromate: (Cation conc. entered: 71 mg/kg, converted to compound conc.:196.96 mg/kg or 0.020%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
pH: (Whole concentration entered as: 7.7 pH or 7.70 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.20 mg/kg or 0.000020%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 5.1 mg/kg or 0.00051%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ersion

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as 17 05 04
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Ove Arup & Partners International
Eastern Eagle Street
Capital Waters Pride
Cardiff
CF24 5EZ

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
0m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazardous properties

None identified

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0051%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00010%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.6 mg/kg, converted to compound conc.:10.03 mg/kg or 0.0010%)
Cadmium sulphide: (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.77 mg/kg or 0.000077%)
Lead chromate: (Cation conc. entered: 33 mg/kg, converted to compound conc.:51.47 mg/kg or 0.0051%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:33.17 mg/kg or 0.0033%)
Copper (I) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:18.01 mg/kg or 0.0018%)
Zinc chromate: (Cation conc. entered: 42 mg/kg, converted to compound conc.:116.51 mg/kg or 0.012%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:1.05 mg/kg or 0.00010%)
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.5 mg/kg or 0.00045%)

Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '...

salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Ove Arup & Partners International
Cedarwood Street
Capital Waterside
Cardiff
CF10 4AB

Sample Details

Sample Name:

Site:

Project:

Sample Depth:
m
Wet Weight Moisture Content:

Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous until proven otherwise

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000020%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.019%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00010%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 8.1 mg/kg, converted to compound conc.:10.69 mg/kg or 0.0011%)
Cadmium sulphide: (Cation conc. entered: 1 mg/kg, converted to compound conc.:1.29 mg/kg or 0.00013%)
Lead chromate: (Cation conc. entered: 120 mg/kg, converted to compound conc.:187.18 mg/kg or 0.019%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)

Nickel dihydroxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:23.69 mg/kg or 0.0024%)
Copper (I) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:18.01 mg/kg or 0.0018%)
Zinc chromate: (Cation conc. entered: 62 mg/kg, converted to compound conc.:172.00 mg/kg or 0.017%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:1.05 mg/kg or 0.00010%)
pH: (Whole concentration entered as: 7.4 pH or 7.40 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.20 mg/kg or 0.000020%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

Notes used in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Cut-off step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ersion

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
Ove Arup & Partners International
Admiral Court
Capital Waters
Cardiff
CF10 4BB

Sample Details

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands (Wet Weight Moisture Content:0%)

pH: (Whole concentration entered as: 7.6 pH or 7.60 pH)

Notes used in assessment

None

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
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HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
□□□□□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
Ove Arup & Partners International
Admiral Court
Capital Waterside
Cardiff
CF10 4BB

Sample Details

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazardous properties

None identified

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.039%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 8.3 mg/kg, converted to compound conc.:10.96 mg/kg or 0.0011%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Lead chromate: (Cation conc. entered: 250 mg/kg, converted to compound conc.:389.95 mg/kg or 0.039%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:31.59 mg/kg or 0.0032%)
Copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.89 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 40 mg/kg, converted to compound conc.:110.97 mg/kg or 0.011%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)

Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
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HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
□ymo□□□□sa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
□□e □rup □ □artners □nternat□ona□
□ □□er□ea□ □treet
Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.028%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.3 mg/kg, converted to compound conc.:7.00 mg/kg or 0.00070%)
Cadmium sulphide: (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.64 mg/kg or 0.000064%)
Lead chromate: (Cation conc. entered: 180 mg/kg, converted to compound conc.:280.77 mg/kg or 0.028%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:18.95 mg/kg or 0.0019%)
Copper (I) oxide: (Cation conc. entered: 9 mg/kg, converted to compound conc.:10.13 mg/kg or 0.0010%)
Zinc chromate: (Cation conc. entered: 60 mg/kg, converted to compound conc.:166.45 mg/kg or 0.017%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

Note E table
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
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HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as 17 05 04 or 17 05 03 *
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
20/09/2012
Telephone:
0161 601 6000

Company:
Arup & Partners International
1 Marsden Street
Capital Waterside
Manchester
M2 1HW

Sample Details

Sample Name:
BH01
Site:
Project:
Sample Depth:
1m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous unless shown otherwise

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000010%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.045%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:15.84 mg/kg or 0.0016%)
Cadmium sulphide: (Cation conc. entered: 1.8 mg/kg, converted to compound conc.:2.31 mg/kg or 0.00023%)
Lead chromate: (Cation conc. entered: 290 mg/kg, converted to compound conc.:452.35 mg/kg or 0.045%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:30.01 mg/kg or 0.0030%)

Copper (I) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.52 mg/kg or 0.0023%)
Zinc chromate: (Cation conc. entered: 200 mg/kg, converted to compound conc.:554.83 mg/kg or 0.055%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.4 mg/kg or 0.000040%)
Benzo[b]fluoranthene: (Whole concentration entered as: 0.3 mg/kg or 0.000030%)
Benzo[ghi]perylene: (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

Notes used in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

Cut-off step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Sample Name:
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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

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Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.011%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00014%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 8.3 mg/kg, converted to compound conc.:10.96 mg/kg or 0.0011%)
Cadmium sulphide: (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.03 mg/kg or 0.00010%)
Lead chromate: (Cation conc. entered: 72 mg/kg, converted to compound conc.:112.31 mg/kg or 0.011%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:31.59 mg/kg or 0.0032%)
Copper (I) oxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:15.76 mg/kg or 0.0016%)
Zinc chromate: (Cation conc. entered: 42 mg/kg, converted to compound conc.:116.51 mg/kg or 0.012%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.9 mg/kg, converted to compound conc.:1.35 mg/kg or 0.00014%)
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)

Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '...

salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

□a□ar□ propert□es □substan□es □ons□□ere□ □a□ar□ous unt□□s□o□n ot□er□ □se□

□□□□ "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R□□ "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000030%)

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.075%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00012%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 10 mg/kg, converted to compound conc.:13.20 mg/kg or 0.0013%)
Cadmium sulphide: (Cation conc. entered: 0.9 mg/kg, converted to compound conc.:1.16 mg/kg or 0.00012%)
Lead chromate: (Cation conc. entered: 480 mg/kg, converted to compound conc.:748.71 mg/kg or 0.075%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)

Nickel dihydroxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:34.75 mg/kg or 0.0035%)
Copper (I) oxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:24.77 mg/kg or 0.0025%)
Zinc chromate: (Cation conc. entered: 110 mg/kg, converted to compound conc.:305.16 mg/kg or 0.031%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.20 mg/kg or 0.00012%)
pH: (Whole concentration entered as: 6.9 pH or 6.90 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.3 mg/kg, converted to compound conc.:0.30 mg/kg or 0.000030%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
□ymo□□□□sa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
□□e □rup □ □artners □nternat□ona□
□ □er□ea□ □treet
Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□eterm□nan□s (Wet Weight Moisture Content:0%)

pH: (Whole concentration entered as: 7 pH or 7.00 pH)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.9 mg/kg or 0.00049%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.4 mg/kg or 0.00054%)

□otes ut□□se□ □n assessment

C□□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

ersion

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
□ymo□□□□sa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
□□e □rup □ □artners □nternat□ona□
□ □er□ea□ □treet
Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.078%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00015%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.5 mg/kg, converted to compound conc.:9.90 mg/kg or 0.00099%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Lead chromate: (Cation conc. entered: 500 mg/kg, converted to compound conc.:779.91 mg/kg or 0.078%)
Mercury dichloride: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.27 mg/kg or 0.000027%)
Nickel dihydroxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:34.75 mg/kg or 0.0035%)
Copper (I) oxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:15.76 mg/kg or 0.0016%)
Zinc chromate: (Cation conc. entered: 67 mg/kg, converted to compound conc.:185.87 mg/kg or 0.019%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1 mg/kg, converted to compound conc.:1.50 mg/kg or 0.00015%)
pH: (Whole concentration entered as: 7.5 pH or 7.50 pH)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)

Oils: fuel oils (including DRO, C10-25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '...

salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
Ove Arup & Partners International
Admiral Court
Capital Waters Drive
Cardiff
CF□ □□□

Sample Details

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands (Wet Weight Moisture Content:0%)

pH: (Whole concentration entered as: 7.9 pH or 7.90 pH)

Notes used in assessment

None

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

Classified by

Name:
Dymock
Date:
Telephone:
Company:
Ove Arup & Partners International
Cleveland Street
Capital Waterside
Cardiff
CF10 5BZ

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazardous properties

None identified

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.097%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000090%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.1 mg/kg, converted to compound conc.:9.37 mg/kg or 0.00094%)
Cadmium sulphide: (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.77 mg/kg or 0.000077%)
Lead chromate: (Cation conc. entered: 620 mg/kg, converted to compound conc.:967.09 mg/kg or 0.097%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:30.01 mg/kg or 0.0030%)
Copper (I) oxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:14.64 mg/kg or 0.0015%)
Zinc chromate: (Cation conc. entered: 60 mg/kg, converted to compound conc.:166.45 mg/kg or 0.017%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
pH: (Whole concentration entered as: 7.6 pH or 7.60 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

otes ut se n assessment

tona Rs rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C tep
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

ote
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"

Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

Substance notes

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

Note
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E Table
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
□ymo□□□□sa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
□□e □rup □ □artners □nternat□ona□
□ □□er□ea□ □treet
Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.041%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00017%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.6 mg/kg, converted to compound conc.:10.03 mg/kg or 0.0010%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Lead chromate: (Cation conc. entered: 260 mg/kg, converted to compound conc.:405.55 mg/kg or 0.041%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:34.75 mg/kg or 0.0035%)
Copper (I) oxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:13.51 mg/kg or 0.0014%)
Zinc chromate: (Cation conc. entered: 57 mg/kg, converted to compound conc.:158.13 mg/kg or 0.016%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.65 mg/kg or 0.00017%)
pH: (Whole concentration entered as: 7.7 pH or 7.70 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.95 mg/kg or 0.000095%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"

Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

Substance notes

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

Note
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E Table
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
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3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as 17 05 04
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Arup & Partners International
Northern Area Office
Capital Waters Office
Cardiff
CF10 4BZ

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazardous properties

None identified

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.045%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00012%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.6 mg/kg, converted to compound conc.:7.39 mg/kg or 0.00074%)
Cadmium sulphide: (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.64 mg/kg or 0.000064%)
Lead chromate: (Cation conc. entered: 290 mg/kg, converted to compound conc.:452.35 mg/kg or 0.045%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 17 mg/kg, converted to compound conc.:26.85 mg/kg or 0.0027%)
Copper (I) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:12.38 mg/kg or 0.0012%)
Zinc chromate: (Cation conc. entered: 46 mg/kg, converted to compound conc.:127.61 mg/kg or 0.013%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.20 mg/kg or 0.00012%)
pH: (Whole concentration entered as: 7.6 pH or 7.60 pH)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
□ymo□□□□sa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
□□e □rup □ □artners □nternat□ona□
□ □□er□ea□ □treet
Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

□a□ar□ propert□es

None identified

□eterm□nan□s (Wet Weight Moisture Content:0%)

pH: (Whole concentration entered as: 7.9 pH or 7.90 pH)

□otes ut□□se□ □n assessment

None

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
Ove Arup & Partners International
Eastern Gateway Street
Cap Ta Waters Ple
Car□□□
C□□□ □□ □

Sample Details

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazardous properties

None identified

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00010%)
Lead compounds (with the exception of those listed separately in this Annex): (0.14%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.7 mg/kg, converted to compound conc.:10.17 mg/kg or 0.0010%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 940 mg/kg, converted to compound conc.:1419.40 mg/kg or 0.14%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:33.17 mg/kg or 0.0033%)
Copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.89 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 71 mg/kg, converted to compound conc.:196.96 mg/kg or 0.020%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:1.05 mg/kg or 0.00010%)
pH: (Whole concentration entered as: 7.4 pH or 7.40 pH)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '...

salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
determinand: "Zinc chromate"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
determinand: "Arsenic trioxide"
determinand: "Zinc chromate"
determinand: "Nickel dihydroxide"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
□ymo□□□□sa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
□□e □rup □ □artners □nternat□ona□
□ □□er□ea□ □treet
Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□**t□ona□□ □□t□ona□R□s□ □□rases** "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.045%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.6 mg/kg, converted to compound conc.:8.71 mg/kg or 0.00087%)
Cadmium sulphide: (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.64 mg/kg or 0.000064%)
Lead chromate: (Cation conc. entered: 290 mg/kg, converted to compound conc.:452.35 mg/kg or 0.045%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:31.59 mg/kg or 0.0032%)
Copper (I) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:12.38 mg/kg or 0.0012%)
Zinc chromate: (Cation conc. entered: 47 mg/kg, converted to compound conc.:130.38 mg/kg or 0.013%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.7 pH or 7.70 pH)

Notes utilised in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

Concentration Step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

Substance notes

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

Note
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

Note - table
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ers on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
□□/□□/□□□□
Telephone:
□□□□ □□□ □□□□

Company:
Ove Arup & Partners International
Cleveland Street
Capital Waterside
Cardiff
CF□□ □□ □

Sample Details

Sample Name:
□□□ □□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous untested on other basis

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000010%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0073%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6 mg/kg, converted to compound conc.:7.92 mg/kg or 0.00079%)
Cadmium sulphide: (Cation conc. entered: 0.4 mg/kg, converted to compound conc.:0.51 mg/kg or 0.000051%)
Lead chromate: (Cation conc. entered: 47 mg/kg, converted to compound conc.:73.31 mg/kg or 0.0073%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:18.95 mg/kg or 0.0019%)

Copper (I) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:12.38 mg/kg or 0.0012%)
Zinc chromate: (Cation conc. entered: 55 mg/kg, converted to compound conc.:152.58 mg/kg or 0.015%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.5 pH or 7.50 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

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tona R s rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

C tep
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

ote
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"

Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

Note
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"

Note E Table
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Ove Arup & Partners International
Admiral Court
Capital Waterside
Cardiff
CF10 4BB

Sample Details

Sample Name:

Site:

Project:

Sample Depth:
m
Wet Weight Moisture Content:

Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous unless shown otherwise

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000010%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0042%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.1 mg/kg, converted to compound conc.:6.73 mg/kg or 0.00067%)
Cadmium sulphide: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.26 mg/kg or 0.000026%)
Lead chromate: (Cation conc. entered: 27 mg/kg, converted to compound conc.:42.12 mg/kg or 0.0042%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 9 mg/kg, converted to compound conc.:14.22 mg/kg or 0.0014%)

Copper (I) oxide: (Cation conc. entered: 9 mg/kg, converted to compound conc.:10.13 mg/kg or 0.0010%)
Zinc chromate: (Cation conc. entered: 35 mg/kg, converted to compound conc.:97.10 mg/kg or 0.0097%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

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tona R s rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

C tep
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"

ote
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"

Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

Substance notes

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

Note
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"

Note E Table
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

✱ □otent□a□y □a□ar□ous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
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Sample Name:
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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

□a□ar□ propert□es □substan□es □ons□□ere□ □a□ar□ous unt□□s□o□n ot□er□ □se□

□□□□ "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R□□ "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000010%)

□□□**t□ona□□ □□t□ona□R□s□ □□rases** "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.058%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00018%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:15.84 mg/kg or 0.0016%)
Cadmium sulphide: (Cation conc. entered: 0.9 mg/kg, converted to compound conc.:1.16 mg/kg or 0.00012%)
Lead chromate: (Cation conc. entered: 370 mg/kg, converted to compound conc.:577.13 mg/kg or 0.058%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)

Nickel dihydroxide: (Cation conc. entered: 31 mg/kg, converted to compound conc.:48.96 mg/kg or 0.0049%)
Copper (I) oxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:24.77 mg/kg or 0.0025%)
Zinc chromate: (Cation conc. entered: 95 mg/kg, converted to compound conc.:263.54 mg/kg or 0.026%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:1.80 mg/kg or 0.00018%)
pH: (Whole concentration entered as: 7.6 pH or 7.60 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ubstan□e notes

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

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Sample Name:
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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.025%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00022%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 8.4 mg/kg, converted to compound conc.:11.09 mg/kg or 0.0011%)
Cadmium sulphide: (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.77 mg/kg or 0.000077%)
Lead chromate: (Cation conc. entered: 160 mg/kg, converted to compound conc.:249.57 mg/kg or 0.025%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:36.33 mg/kg or 0.0036%)
Copper (I) oxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:14.64 mg/kg or 0.0015%)
Zinc chromate: (Cation conc. entered: 65 mg/kg, converted to compound conc.:180.32 mg/kg or 0.018%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:2.25 mg/kg or 0.00022%)
pH: (Whole concentration entered as: 7.9 pH or 7.90 pH)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
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2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
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HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Ove Arup & Partners International
Eastern Eagle Street
Capital Waterside
Cardiff
CF10 4BH

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous untested on other basis

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000010%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.051%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00017%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 10 mg/kg, converted to compound conc.:13.20 mg/kg or 0.0013%)
Cadmium sulphide: (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.03 mg/kg or 0.00010%)
Lead chromate: (Cation conc. entered: 330 mg/kg, converted to compound conc.:514.74 mg/kg or 0.051%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)

Nickel dihydroxide: (Cation conc. entered: 27 mg/kg, converted to compound conc.:42.65 mg/kg or 0.0043%)
Copper (I) oxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:23.64 mg/kg or 0.0024%)
Zinc chromate: (Cation conc. entered: 86 mg/kg, converted to compound conc.:238.58 mg/kg or 0.024%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.65 mg/kg or 0.00017%)
pH: (Whole concentration entered as: 7.3 pH or 7.30 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Notes used in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Cut-off step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Ove Arup & Partners International
Eastern Eagle Street
Capital Waterside
Cardiff
CF10 4BH

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazardous properties

None identified

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.010%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000090%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 9.6 mg/kg, converted to compound conc.:12.68 mg/kg or 0.0013%)
Cadmium sulphide: (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.03 mg/kg or 0.00010%)
Lead chromate: (Cation conc. entered: 65 mg/kg, converted to compound conc.:101.39 mg/kg or 0.010%)
Mercury dichloride: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.27 mg/kg or 0.000027%)
Nickel dihydroxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:30.01 mg/kg or 0.0030%)
Copper (I) oxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:21.39 mg/kg or 0.0021%)
Zinc chromate: (Cation conc. entered: 55 mg/kg, converted to compound conc.:152.58 mg/kg or 0.015%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
pH: (Whole concentration entered as: 7.2 pH or 7.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Notes used in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Cut-off step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

Substance notes

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

Note
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E Table
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
□ymo□□□□sa
Date:
□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□ □□□□

Company:
□□e □rup □ □artners □nternat□ona□
□ □□er□ea□ □treet
Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

□a□ar□ propert□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0062%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:18.48 mg/kg or 0.0018%)
Cadmium sulphide: (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:1.54 mg/kg or 0.00015%)
Lead chromate: (Cation conc. entered: 40 mg/kg, converted to compound conc.:62.39 mg/kg or 0.0062%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:39.49 mg/kg or 0.0039%)
Copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.89 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 51 mg/kg, converted to compound conc.:141.48 mg/kg or 0.014%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Ove Arup & Partners International
Eastern Eagle Street
Capital Waterside
Cardiff
CF10 4BH

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous untested on other basis

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000010%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.053%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00014%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:14.52 mg/kg or 0.0015%)
Cadmium sulphide: (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.03 mg/kg or 0.00010%)
Lead chromate: (Cation conc. entered: 340 mg/kg, converted to compound conc.:530.34 mg/kg or 0.053%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)

Nickel dihydroxide: (Cation conc. entered: 24 mg/kg, converted to compound conc.:37.91 mg/kg or 0.0038%)
Copper (I) oxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:24.77 mg/kg or 0.0025%)
Zinc chromate: (Cation conc. entered: 87 mg/kg, converted to compound conc.:241.35 mg/kg or 0.024%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.9 mg/kg, converted to compound conc.:1.35 mg/kg or 0.00014%)
pH: (Whole concentration entered as: 7.7 pH or 7.70 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

otes ut se n assessment

tona Rs rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C tep
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

ote
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

□ubstan□e notes

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Non Hazardous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
□□□□□□□□□□□□□□□□□□□□
Telephone:
□□□□ □□□□ □□□□□

Company:
□□e □rup □ □artners □nternat□ona□
□ □□er□ea□ □treet
Cap□ta□Waters□□e
Car□□□□
C□□□ □□ □

Sample Details

Sample Name:
□□□□ □□□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazardous properties

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.010%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00024%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 8.2 mg/kg, converted to compound conc.:10.83 mg/kg or 0.0011%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Lead chromate: (Cation conc. entered: 65 mg/kg, converted to compound conc.:101.39 mg/kg or 0.010%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:39.49 mg/kg or 0.0039%)
Copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.89 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 58 mg/kg, converted to compound conc.:160.90 mg/kg or 0.016%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.6 mg/kg, converted to compound conc.:2.40 mg/kg or 0.00024%)
pH: (Whole concentration entered as: 8 pH or 8.00 pH)

Notes used in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Cut-off step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

Substance notes

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

Note
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Ove Arup & Partners International
Eastern Eagle Street
Capital Waterside
Cardiff
CF10 4BH

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous untested on other basis

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000050%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.022%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6 mg/kg, converted to compound conc.:7.92 mg/kg or 0.00079%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Lead chromate: (Cation conc. entered: 140 mg/kg, converted to compound conc.:218.37 mg/kg or 0.022%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 17 mg/kg, converted to compound conc.:26.85 mg/kg or 0.0027%)

Copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.89 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 120 mg/kg, converted to compound conc.:332.90 mg/kg or 0.033%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.50 mg/kg or 0.000050%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"

Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

Substance notes

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

Note
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"

Note E Table
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Version

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
□□/□□/□□□□ □□:□□:□□
Telephone:
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Company:
Arup & Partners International
Overseas Street
Capital Waterside
Cardiff
CF□□ □□□

Sample Details

Sample Name:
Soil
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous until proven otherwise

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000040%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.058%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000090%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 9.7 mg/kg, converted to compound conc.:12.81 mg/kg or 0.0013%)
Cadmium sulphide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.41 mg/kg or 0.00014%)
Lead chromate: (Cation conc. entered: 370 mg/kg, converted to compound conc.:577.13 mg/kg or 0.058%)
Mercury dichloride: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.27 mg/kg or 0.000027%)

Nickel dihydroxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:39.49 mg/kg or 0.0039%)
Copper (I) oxide: (Cation conc. entered: 35 mg/kg, converted to compound conc.:39.41 mg/kg or 0.0039%)
Zinc chromate: (Cation conc. entered: 170 mg/kg, converted to compound conc.:471.60 mg/kg or 0.047%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
pH: (Whole concentration entered as: 7.8 pH or 7.80 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.4 mg/kg, converted to compound conc.:0.40 mg/kg or 0.000040%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

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□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

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HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
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Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

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Sample Name:
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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

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Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.034%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00015%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.3 mg/kg, converted to compound conc.:9.64 mg/kg or 0.00096%)
Cadmium sulphide: (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.77 mg/kg or 0.000077%)
Lead chromate: (Cation conc. entered: 220 mg/kg, converted to compound conc.:343.16 mg/kg or 0.034%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)
Nickel dihydroxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:30.01 mg/kg or 0.0030%)
Copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.89 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 55 mg/kg, converted to compound conc.:152.58 mg/kg or 0.015%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1 mg/kg, converted to compound conc.:1.50 mg/kg or 0.00015%)
pH: (Whole concentration entered as: 8 pH or 8.00 pH)

Notes utilised in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Cut-off step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

Substance notes

Note
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

Note
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
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HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
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Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

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Sample Name:
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Site:
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Project:
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Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

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Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.044%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.2 mg/kg, converted to compound conc.:8.19 mg/kg or 0.00082%)
Cadmium sulphide: (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.64 mg/kg or 0.000064%)
Lead chromate: (Cation conc. entered: 280 mg/kg, converted to compound conc.:436.75 mg/kg or 0.044%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:22.11 mg/kg or 0.0022%)
Copper (I) oxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:13.51 mg/kg or 0.0014%)
Zinc chromate: (Cation conc. entered: 40 mg/kg, converted to compound conc.:110.97 mg/kg or 0.011%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

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□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

ote
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

ote ab e
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ersion

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Classification

Potentially Hazardous Waste
Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

Classified by

Name:
Dymock Lisa
Date:
Telephone:

Company:
Ove Arup & Partners International
Eastern Eagle Street
Capital Waterside
Cardiff
CF10 4BH

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
m
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

Hazardous properties considered Hazardous untested on other basis

HP14 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

R29 "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000050%)

Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R33 "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.066%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00018%)

Determinands (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:18.48 mg/kg or 0.0018%)
Cadmium sulphide: (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:1.93 mg/kg or 0.00019%)
Lead chromate: (Cation conc. entered: 420 mg/kg, converted to compound conc.:655.12 mg/kg or 0.066%)
Mercury dichloride: (Cation conc. entered: 0.3 mg/kg, converted to compound conc.:0.41 mg/kg or 0.000041%)

Nickel dihydroxide: (Cation conc. entered: 30 mg/kg, converted to compound conc.:47.38 mg/kg or 0.0047%)
Copper (I) oxide: (Cation conc. entered: 42 mg/kg, converted to compound conc.:47.29 mg/kg or 0.0047%)
Zinc chromate: (Cation conc. entered: 230 mg/kg, converted to compound conc.:638.05 mg/kg or 0.064%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:1.80 mg/kg or 0.00018%)
pH: (Whole concentration entered as: 7.7 pH or 7.70 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.50 mg/kg or 0.000050%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: 0.3 mg/kg or 0.000030%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.5 mg/kg or 0.000050%)
Benzo[b]fluoranthene: (Whole concentration entered as: 0.4 mg/kg or 0.000040%)
Benzo[ghi]perylene: (Whole concentration entered as: 0.4 mg/kg or 0.000040%)
Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Chrysene: (Whole concentration entered as: 0.5 mg/kg or 0.000050%)
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Notes used in assessment

Additional Risk Phrase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Cut-off step
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Phenanthrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

ersion

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

□on □a□ar□ous Waste
Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
□ymo□□□□sa
Date:
□□□□□□□□□□□□□□□□
Telephone:
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Company:
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Cap□ta□Waters□□e
Car□□□
C□□□ □□ □

□amp□e □eta□s

Sample Name:
□□□□ □□□
Site:
□
Project:
□
Sample Depth:
□m
Wet Weight Moisture Content:
□□

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00010%)
Lead chromate: (0.059%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.6 mg/kg, converted to compound conc.:10.03 mg/kg or 0.0010%)
Cadmium sulphide: (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.77 mg/kg or 0.000077%)
Lead chromate: (Cation conc. entered: 380 mg/kg, converted to compound conc.:592.73 mg/kg or 0.059%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:30.01 mg/kg or 0.0030%)
Copper (I) oxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:13.51 mg/kg or 0.0014%)
Zinc chromate: (Cation conc. entered: 57 mg/kg, converted to compound conc.:158.13 mg/kg or 0.016%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:1.05 mg/kg or 0.00010%)
pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "Additional on R33" for determinand: "Lead chromate"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

determinand: "Zinc chromate"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Nickel dihydroxide"
determinand: "Cadmium sulphide"
determinand: "Arsenic trioxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
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HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C□ass□□□at□on

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

C□ass□□e□ by

Name:
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Date:
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Cap□ta□Waters□□e
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Sample Name:
W□□□ □□□
Site:
□
Project:
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Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

□a□ar□ proper□es

None identified

□□□t□ona□□ □□t□ona□R□s□ □□rases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0059%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000090%)

□eterm□nan□s (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.8 mg/kg, converted to compound conc.:8.98 mg/kg or 0.00090%)
Cadmium sulphide: (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.64 mg/kg or 0.000064%)
Lead chromate: (Cation conc. entered: 38 mg/kg, converted to compound conc.:59.27 mg/kg or 0.0059%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 17 mg/kg, converted to compound conc.:26.85 mg/kg or 0.0027%)
Copper (I) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:12.38 mg/kg or 0.0012%)
Zinc chromate: (Cation conc. entered: 37 mg/kg, converted to compound conc.:102.64 mg/kg or 0.010%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)

□otes ut□□se□ □n assessment

□□□t□ona□R□s□ □□rase Comments
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C□□□□□□□tep □
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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□ote □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

□ote □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

□ote □ □□ab□e □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

□ers□on

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

W□□□□□□CC□□□□□C□□CR□□□R□□□□□□□□□□
□□□□□□□C□□□R□□□R□

Job□□□te□	WAST - Western Gateway Site	**Job□□umber□**	11-48141
C□□ent□Re□eren□e□	40822	**□amp□e□□umber□**	321829
□amp□e□□□	SA03 / 0.80	**□ate□□na□yse□□**	12/04/2011

□est□Resu□ts□□n□Waste		
□etermination□an□□□et□o□□Re□eren□e	**□n□ts**	**Resu□t**
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

W□C□□m□t□□a□ues		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

□est□Resu□ts□□n□ea□□ate				
□etermination□an□□□et□o□□ Re□eren□e	**Con□□n□□uate□u□□□** □□□	□□□	**□mount□□ea□□e□□m□□□□** □□□	□□□□
2326 Arsenic as As	<1	<1	<0.002	<0.01
042 Barium as Ba*	30	14	0.060	0.16
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	<2	<2	<0.004	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	<1	<1	<0.002	<0.01
055 Chloride as Cl	1900	470	<20	<100
055 Fluoride as F	210	110	0.42	1.2
055 Sulphate as SO4	7800	1200	<20	<100
035 Total Dissolved Solids *	46000	25000	92	275
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	10000	4900	20	55
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.113			
Stage 1				
Volume of Leachant L2	0.199			
Volume of Eluate VE1	0.135			
Stage 2				
Volume of Leachant L8	0.903			
Volume of Eluate VE2	0.830			

W□C□□m□t□□a□ues limit values for LS10 Leachate		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

□□RW□□□□□□□□□□□R□□□ □□□□□□□□□□□□□□□□R□C□□□□□□□□□□

Job□□□te□	WAST - Western Gateway Site	**Job□□umber□**	11-48141
C□□ent□Re□eren□e□	40822	**□amp□e□□umber□**	321831
□amp□e□□□	SA04 / 0.20	**□ate□□na□yse□□**	12/04/2011

□est□Resu□ts□□n□Waste		
□etermination□an□□□et□o□□Re□eren□e	**□n□ts**	**Resu□t**
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

W□C□□m□t□a□ues		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

□est□Resu□ts□□n□ea□□ate				
□etermination□an□□□et□o□□ Re□eren□e	**Con□□n□□uate□u□□□**		**□mount□□ea□□e□□m□□□□**	
	□□□□	□□□□	□□□	□□□□
2326 Arsenic as As	<1	<1	<0.002	<0.01
042 Barium as Ba*	19	4	0.038	0.058
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	<2	<2	<0.004	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	5	1	0.010	0.015
055 Chloride as Cl	2600	560	<20	<100
055 Fluoride as F	<100	<100	<0.02	<0.1
055 Sulphate as SO4	5300	1600	<20	<100
035 Total Dissolved Solids *	37000	7000	74	106
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	20000	9900	40	111
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.112			
Stage 1				
Volume of Leachant L2	0.196			
Volume of Eluate VE1	0.133			
Stage 2				
Volume of Leachant L8	0.896			
Volume of Eluate VE2	0.815			

W□C□□m□t□a□ues limit values for LS10 Leachate		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

Job□□t□e□	WAST - Western Gateway Site	**Job□umber□**	11-48141
C□ent Re□eren□e□	40822	**□amp□e□umber□**	321833
□amp□e□□□	TP04 / 0.20	**□ate□na□yse□□**	12/04/2011

□est Results□n Waste		
□eterm□nan□□an□□□et□o□□Re□eren□e	**□n□ts**	**Resu□t**
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

W□C□□m□t□a□ues		
□nert Waste	**□□R□W**	**□a□ar□ous□ Waste**
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

□est Results□n□ea□□ate				
□eterm□nan□□an□□□et□o□□ Re□eren□e	**Con□□n□□uate□u□□□**		**□mount□□ea□□e□m□□□□**	
	□□□□	□□□□	□□□	□□□□
2326 Arsenic as As	1	<1	0.002	<0.01
042 Barium as Ba*	16	<1	0.032	<0.1
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	8	3	0.016	0.037
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	13	2	0.026	0.035
055 Chloride as Cl	1800	470	<20	<100
055 Fluoride as F	460	110	0.92	1.6
055 Sulphate as SO4	3600	930	<20	<100
035 Total Dissolved Solids *	34000	7000	68	107
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	8600	4400	17	<50
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.119			
Stage 1				
Volume of Leachant L2	0.218			
Volume of Eluate VE1	0.165			
Stage 2				
Volume of Leachant L8	0.954			
Volume of Eluate VE2	0.865			

W□C□□m□t□a□ues limit values for LS10 Leachate		
□nert Waste	**□□R□W**	**□a□ar□ous□ Waste**
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

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W□□□□□□CC□□□□□□C□□CR□□□R□□□□□□□□□□
□□□□□□□C□□□R□□□R□

Job□□□t□e□	WAST - Western Gateway Site	**Job□□umber□**	11-48141
C□□ent□Re□eren□e□	40822	**□amp□e□□umber□**	321835
□amp□e□□□□	TP13 / 1.80	**□ate□□na□yse□□**	12/04/2011

□est□Resu□ts□□n□Waste		
□etermination□an□□□et□o□□Re□eren□e	**□n□ts**	**Resu□t**
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

W□C□□m□t□a□ues		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

□est□Resu□ts□□n□ea□□ate				
□etermination□an□□□et□o□□ Re□eren□e	**Con□□n□□uate□u□□□**		**□mount□□ea□□e□□m□□□□**	
	□□□□	□□□□	□□□	□□□□
2326 Arsenic as As	<1	<1	<0.002	<0.01
042 Barium as Ba*	8	6	<0.02	<0.1
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	<2	<2	<0.004	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	1	2	0.002	0.019
055 Chloride as Cl	2000	640	<20	<100
055 Fluoride as F	<100	<100	<0.02	<0.1
055 Sulphate as SO4	14000	2500	28	<100
035 Total Dissolved Solids *	50000	7000	100	125
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	11000	6400	22	70
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.110			
Stage 1				
Volume of Leachant L2	0.190			
Volume of Eluate VE1	0.140			
Stage 2				
Volume of Leachant L8	0.879			
Volume of Eluate VE2	0.805			

W□C□□m□t□a□ues limit values for LS10 Leachate		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

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□□RW□□□□□□□□□□□R□□□ □□□□□□□□□□□□□□□□R□C□□□□□□□□

W□□□□□□CC□□□□□C□□CR□□□R□□□□□□□□□□
□□□□□□□C□□□R□□□R□

Job□□t□e□	WAST - Western Gateway Site	**Job□□umber□**	11-48141
C□□ent□Re□eren□e□	40822	**□amp□e□□umber□**	321843
□amp□e□□□	TP27 / 1.00	**□ate□□na□yse□□**	12/04/2011

□est□Resu□ts□□n□Waste		
□eterm□nan□□an□□□et□o□□Re□eren□e	**□n□ts**	**Resu□t**
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

W□C□□m□t□□a□ues		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

□est□Resu□ts□□n□ea□□ate				
□eterm□nan□□an□□□et□o□□ Re□eren□e	**Con□□n□□uate□u□□□**		**□mount□□ea□□e□□m□□□□**	
	□□□□	□□□□	□□□	□□□□
2326 Arsenic as As	<1	<1	<0.002	<0.01
042 Barium as Ba*	20	6	0.040	<0.1
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	<2	<2	<0.004	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	<1	<1	<0.002	<0.01
055 Chloride as Cl	1600	660	<20	<100
055 Fluoride as F	380	230	0.76	2.5
055 Sulphate as SO4	33000	7300	66	109
035 Total Dissolved Solids *	100000	40000	200	484
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	9600	4600	19	53
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.116			
Stage 1				
Volume of Leachant L2	0.209			
Volume of Eluate VE1	0.162			
Stage 2				
Volume of Leachant L8	0.931			
Volume of Eluate VE2	0.860			

W□C□□m□t□□a□ues limit values for LS10 Leachate		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

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□□RW□□□□□□□□□□□□R□□□ □□□□□□□□□□□□□□□□R□C□□□□□□□□□□

W□□□□□□CC□□□□□C□□CR□□□R□□□□□□□□□□
□□□□□□□C□□□R□□□R□

Job□□□te□	WAST - Western Gateway Site	**Job□□umber□**	11-48141
C□□ent□Re□eren□e□	40822	**□amp□e□□umber□**	321845
□amp□e□□□	TP28 / 1.00	**□ate□□na□yse□□**	12/04/2011

□est□Resu□ts□□n□Waste		
□etermination□an□□□et□o□□Re□eren□e	**□n□ts**	**Resu□t**
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

W□C□□m□t□a□ues		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

□est□Resu□ts□□n□ea□□ate				
□etermination□an□□□et□o□□ Re□eren□e	**Con□□n□□uate□u□□□**		**□mount□□ea□□e□□m□□□□**	
	□□□□	□□□□	□□□	□□□□
2326 Arsenic as As	<1	<1	<0.002	<0.01
042 Barium as Ba*	<1	2	<0.02	<0.1
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	<2	<2	<0.004	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	<1	1	<0.002	<0.01
055 Chloride as Cl	1300	560	<20	<100
055 Fluoride as F	170	<100	0.34	0.24
055 Sulphate as SO4	1400	770	<20	<100
035 Total Dissolved Solids *	14000	<5000	28	<50
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	8600	4800	17	53
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.116			
Stage 1				
Volume of Leachant L2	0.208			
Volume of Eluate VE1	0.164			
Stage 2				
Volume of Leachant L8	0.929			
Volume of Eluate VE2	0.855			

W□C□□m□t□a□ues limit values for LS10 Leachate		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

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□□RW□□□□□□□□□□□R□□□ □□□□□□□□□□□□□□□□R□C□□□□□□□□□

W□□□□□□CC□□□□□C□□CR□□□R□□□□□□□□□□
□□□□□□□C□□□R□□□R□

Job□□□te□	WAST - Western Gateway Site	**Job□□umber□**	11-48141
C□□ent□Re□eren□e□	40822	**□amp□e□□umber□**	321867
□amp□e□□□	WS02 / 0.50	**□ate□□na□yse□□**	12/04/2011

□est□Resu□ts□□n□Waste		
□etermᵢnan□□an□□□et□o□□Re□eren□e	**□n□ts**	**Resu□t**
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

W□C□□m□t□□a□ues		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

□est□Resu□ts□□n□ea□□ate				
□etermᵢnan□□an□□□et□o□□ Re□eren□e	**Con□□n□□uate□u□□□**		**□mount□□ea□□e□□m□□□□**	
	□□□	□□□	□□□	□□□□
2326 Arsenic as As	<1	<1	<0.002	<0.01
042 Barium as Ba*	24	3	0.048	<0.1
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	<2	<2	<0.004	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	8	5	0.016	0.054
055 Chloride as Cl	1500	40	<20	<100
055 Fluoride as F	<100	<100	<0.02	<0.1
055 Sulphate as SO4	2700	70	<20	<100
035 Total Dissolved Solids *	13000	<5000	26	<50
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	5700	<2000	11	<50
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.116			
Stage 1				
Volume of Leachant L2	0.209			
Volume of Eluate VE1	0.166			
Stage 2				
Volume of Leachant L8	0.932			
Volume of Eluate VE2	0.835			

W□C□□m□t□□a□ues limit values for LS10 Leachate		
□nert□Waste	**□□R□W**	**□a□ar□ous□ Waste**
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

□□RW□□□□□□□□□□□□R□□□ □□□□□□□□□□□□□□□□R□C□□□□□□□□□□

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THE ENVIRONMENTAL LABORATORY LTD

Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***

Report No:	ANALYTICAL REPORT No. AR39547				Page 11 of 16		
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Access Road						
Lab Reference	42069				Landfill Waste Acceptance Critena Limits		
Sampling Date	18/07/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TP101						
Depth	1.25						
Solid Waste Analysis							
TOC (%)	6.8				3%	5%	6%
Loss on Ignition (%)**	9.0				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	188				500	--	--
Total PAH (mg/kg)**	44.7				100	--	--
pH (Units)**	6.9				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	0.006	<0.005		<0.1	0.5	2	25
Barium*	0.136	0.062		0.4	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	0.006	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	0.008	<0.005		<0.01	0.1	0.5	7
Zinc*	0.012	0.008		<0.1	4	50	200
Chloride*	15	11		61	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	80	9		104	1000	20000	50000
TDS	300	100		687	4000	60000	100000
Phenol Index	<0.5	<0.5		<0.5	1	-	-
DOC	32.2	12.5		82	500	800	1000
Leach Test Information							
pH *	7.6	7.3					
EC*	416	120					
Sample Mass (kg)	0.211						
Dry Matter (%)	83						
Moisture (%)	17						
Stage 1							
Volume Eluate L2 (litres)	0.313						
Filtered Eluate VE1 (litres)	0.138						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

*= UKAS accredited

** - MCERTS accredited test

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THE ENVIRONMENTAL LABORATORY LTD

Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***

Report No:	ANALYTICAL REPORT No. AR39547				Page 12 of 16		
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Access Road						
Lab Reference	42071				Landfill Waste Acceptance Critena Limits		
Sampling Date	18/07/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TP103						
Depth	0.60						
Solid Waste Analysis							
TOC (%)	10.7				3%	5%	6%
Loss on Ignition (%)**	13.9				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	71				500	--	--
Total PAH (mg/kg)**	81.5				100	--	--
pH (Units)**	7.9				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.263	0.049		0.5	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.012	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.021	<0.005		<0.1	4	50	200
Chloride*	16	6		44	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	46	5		68	1000	20000	50000
TDS	450	80		814	4000	60000	100000
Phenol Index	<0.5	<0.5		<0.5	1	-	-
DOC	29.6	17.7		112	500	800	1000
Leach Test Information							
pH *	7.8	7.5					
EC*	396	65					
Sample Mass (kg)	0.205						
Dry Matter (%)	85						
Moisture (%)	15						
Stage 1							
Volume Eluate L2 (litres)	0.318						
Filtered Eluate VE1 (litres)	0.170						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

*= UKAS accredited

** - MCERTS accredited test

Appendix E

Mounds Re-Use Technical Note

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Project title	WAST AFSRC Wrexham	Job number	213833
cc	Sergio Solera Daymon Brocklebank	File reference	P030-ARU-RP-ARC-C008
Prepared by	Katherine Iles/Agnieszka Lopez-Parodi David Lynesmith	Date	4 October 2012
Subject	Mounds Re-use Technical Note		

1.0 Purpose of this summary

This summary provides a geotechnical and geo-environmental assessment of the suitability of the soil mounds on the AFSRC Wrexham site for re-use as general fill on the site, and an interpretation of the factual information from exploratory holes excavated in the mounds provided by the following ground investigation reports:

- Ian Farmers Associates, Report No 40882, June 2011
- CC Geotechnical, Soil Mounds Report No 6693, July 2012

This mound re-use technical note has been prepared for BAM to provide information on the suitability of re-using the mound material on site to raise site levels, predominantly beneath hardstanding and to provide advice on appropriate off-site disposal should this be necessary.

The aim of this note is also to provide reassurance to the Local Planning Authority that the mounds materials, particularly where previous investigations encountered refuse materials, are suitably assessed in relation to potential reuse with respect to potential risk to controlled waters and human health.

2.0 Proposed development

It is proposed to redevelop the site as an ambulance depot comprising buildings and associated access road and car parking areas. This will result in the majority of the site being covered by either by hard standing or buildings, with limited planting areas as presented on Figure 3. It is also proposed to place a minimum of 300mm of clean imported topsoil materials in the area of planting.

Due to the flood defense requirement the development platform has been set at between 90 and 92mOD, up to 2.8m above the existing ground level. This will result in substantial cut and fill activities as part of the enabling works as presented on Figure 2. Current earthworks balance indicates that some 9500m^3 of additional fill materials will be required to achieve the desirable level.

Therefore it is proposed to reuse the materials currently contained within the mounds if they are proven suitable. The volume of the mounds has been estimated at 13,000m^3 as detailed in Table 8. The suitability of reuse of these materials in relation to controlled waters and end site users has been assessed as outlined in the following sections of the note.

3.0 Initial conceptual site model

The purpose of this initial conceptual site model is to present the proposed development and the environmental and setting of the site to show plausible contamination source, pathway and receptor linkages.

The following information has been reviewed to inform the conceptual site model:

- Envirocheck report - obtained for an adjacent site on 21 July 2010 comprising datasheets, historical plans, geology, coal mining report and site sensitivity plan
- geotechnical design technical note – detailing the site, site history and geology
- 'what's in your back yard' section of the EA's website http://maps.environment-agency.gov.uk/wiyby
- ground investigation reports listed in Section 1 above
- proposed development plan, Figure 3
- site walkover

The site is centred on National Grid Reference 332093, 350292 west of Wrexham town centre, north-east Wales. The site is an approximately triangular area of relatively flat open undeveloped grassed land south of Wrexham Maelor Hospital and associated car park. This technical note relates to four mounds of soil that are present on the site. The origin of the mound material and exact date placed is currently unknown. The locations of the mounds are presented on Figure 1.
The typical composition of the mounds has been described as reddish brown slightly silty clayey gravelly sand with low cobble content and occasional man-made inclusion. Details on the composition of each of the four mounds from exploratory investigations are detailed in Section 5 below.

Historical maps dated between 1879 to 2010 shows the site to have remained open undeveloped land, and the Wrexham & Mineral Great Western Railway line ran along the northern part of the site in the location of the existing hospital car park, shown from 1879 until 1992, where it is last shown as dismantled.

Review of the 1:50,000 scale geological plan, shows the site is underlain predominantly by glacio-fluvial deposits and a tract of alluvium along the Gwenfro River. The solid geology is the Pennine Lower Coal Measures comprising of mudstone, siltstone and sandstone.

There are no EA or Local Authority recorded landfill sites within or adjacent to the site boundary.

The only reported pollution licence within 1 km of the site, is held by Wrexham Maelor Hospital, located north of the site, a licence (ref CE0265) is held to release radioactive substances to a sewer.

The Gwenfro River flows in an easterly direction along the southern site boundary. The river Gwenfro has a protected 15m 'ecology corridor' along its entire length, as shown on Figure 3, where no development is permitted.

The superficial deposit and bedrock are designated as a Secondary A aquifer. Secondary A aquifers are defined by the EA as *'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers'*

There are no source protection zones or nitrate vulnerable zones within the site boundary or within 1km of the site boundary.

Source – Pathway - Receptor

The proposed development comprises predominantly buildings and hardstandings with peripheral areas of low level herbaceous planting. It is understood that the mound material is proposed to be placed as fill across the site to raise levels primarily beneath hardstanding and buildings, as shown on Figures 2 and 3. The sources – pathway – receptor pollution linkages have taken this into account and a summary of the sources-pathways-receptor relationship is provided below:

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Rev 12.1, 2 November 2007

Sources	pathways	receptors
Mound material from unknown origin to be placed as fill (predominantly beneath buildings and hardstandings)	Direct contact, dermal absorption, soil ingestion during earthworks Vapour inhalation across the site during site end use. Lateral and vertical migration of contaminants (including leachate generation) via permeable unsaturated strata associated with planting areas. Uptake via root system	Human health - of construction workers involved in the development, site end users and maintenance workers Gwenfro River Groundwater – Secondary A Aquifer Proposed Buildings and structures Proposed planting - in proposed low level herbaceous peripheral areas

Summary
The proposed development will result in the majority of the site covered in hardstanding and buildings with a minimum of 300mm of topsoil within the planting areas. Consequently the direct pathways of exposure of end site users such as ingestion of soil and dust, and dermal contact to the fill materials will be eliminated. However, the proposed planting plots are to be located within the area of the development where up filling operations are currently proposed. Therefore the exposure scenario with vapour inhalation particularly of volatile hydrocarbon compounds remains viable.

In addition, rainwater infiltration in the areas of planting may result in leaching of contaminants from the fill materials via the unsaturated zone into the underlying aquifer. This contamination may then be transported laterally into the Gwenfro River. Therefore these pollution linkages will be assessed based on soil and leachate results from both 2011 and 2012 ground investigations.

For the purpose of risks to site end users it is proposed to use the published Soil Guidance Values (SGVs) and Generic Assessment Criteria (GAC) for a commercial and industrial land use scenarios as this most closely correlates with the proposed development.

4.0 Volume and location of mounds

The locations of the mounds and the trial pits undertaken are shown on Figure 1. The total volumes of the mounds are provided in Table 8, and have been estimated using the software Microstation InRoads.

5.0 Ground Investigations

10No. exploratory holes from the 2011 investigation were undertaken on the mounds and an additional 24No. trial pits were undertaken on the mounds in 2012. The exploratory holes undertaken on each mound are summarised in the Table 1 below, and are shown on Figure 1.

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Rev 12.1, 2 November 2007

Table 1: Exploratory holes undertaken on the soil mounds

Ground Investigation	Mound 1	Mound 2	Mound 3	Mound 4
2011 Ian Farmers investigation	BH01, TP14, TP15, TP28	TP16, TP17, TP27, BH02, TP26	TP29	-
2012 CC-G investigation	TPM01 – TPM05, TPM24	TPM06 – TPM18, TPM21	TPM18 – TPM20	TPM22, TPM23

Samples from the 2011 and 2012 investigations were taken from representative locations within the mounds, including the middle and base. The trial pitting and associated sampling was overseen by an environmental engineer from Arup.

All strata within the stockpiles were sampled, with the exception of any domestic refuse encountered. Any domestic refuse within the stockpiles will not be suitable for re-use and will therefore require off-site disposal at a suitable domestic landfill site. It was therefore not considered necessary to analyse any samples of refuse during the trial pitting investigation.

Testing for re-usability was undertaken in accordance with the following recommendations:

- Moisture content/Atterberg Limits: 1No/500m^3
- Gradings and pipettes : 1No/750m^3
- Compaction (2.5kg hammer): 1No/2000m^3
- Hand vanes in situ to any clay found in the mounds during excavation for sampling purposes.
- Full suite of BRE SD1 sulphate tests (acid, soluble, pH and sulphur): 1No/1500m^3
- Soils leachate analyses

In order to confirm the contaminative nature of materials within the stockpile, dry weight analyses were undertaken. Potential suitability for re-use will be determined on the basis of the dry weight results as well as leachability analyses (L/S 2).

In order to ascertain to which landfill class the materials can be disposed of should off-site disposal be necessary, Waste Acceptance Criteria testing was also undertaken, which consisted of a suite of both dry weight and WAC leachate parameters.

The frequency of testing for dry weight analysis was approximately 1 per 250m^3 and for leachability analysis 1 per 500m^3 material.

The logs are included within the factual reports from the 2011 and 2012 ground investigations.

6.0 Description of material encountered in mounds

The material encountered within the 4No. Mounds present on the site have been described based on review of both 2011 and 2012 ground investigation logs.

Generally, the mounds comprise three different types of material. These include:

1. Mounds 1 and 2 – Reddish/brown gravelly sand / silty clay
2. Eastern plateau to Mound 2 - Domestic refuse
3. Mound 3 - Brown topsoil, clayey sand and gravel
4. Mound 4 – Reddish/brown silty clay / clayey gravelly sand

A summary of the composition of each mound is presented below:

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Mound 1
The material encountered in exploratory holes BH01, TP14, TP15 and TP28 during the 2011 GI and TPM1, TPM2, TPM3, TPM4 and TPM5 during the 2012 GI in Mound 1 was generally described as a reddish brown slightly silty clayey gravelly sand with low cobble content, with rare inclusions of red brick, coal and clinker in TPM1, 2, and 3 and rare to occasional pockets of brown sandy gravelly clay in TPM4 and TPM5 within the eastern part of the mound. TP14 and TP15 were excavated within the southern slopes of the mound, tarmac road surface was encountered in at 92.8m OD within an old road beneath the southern edge of Mound 1. Rare breeze blocks were encountered towards the base of Mound 1 at 93.1mAOD in TPM3 in the central area of the mound.

TPM24 excavated within the southern perimeter of Mound 1 encountered a former road comprising of tarmac and sub base hardcore materials.

Mound 2
The material encountered in trial pits TP16 and TP17, TPM6, 7, 8, 9, 10, 11, 13 and 14 was described as reddish brown silty sandy gravelly clay /silty clayey gravelly sand / with pockets of organic clay and rare inclusions of brick fragments, coal, clinker, ceramics and tarmac fragments. Some scrap plastic material was encountered in TP17 at 3.6m depth and plastic yellow pipe was encountered in TPM8. Blue plastic sheeting, plastic bottle and wire fencing and cobbles and small boulders of concrete at 1.5m depth were encountered in TPM17. TP27 at the southern end of Mound 2 encountered slightly silty very gravelly sand. At the top of the south-eastern slope to Mound 2 a 3.5m thickness of topsoil material encountered much anthropogenic material such as red brick, concrete, ceramic, glass, breeze block, insulation block, tile fragments and rare plastic. A boulder of concrete was encountered at 2m below the top of the mound.

Eastern plateau of Mound 2
BH2, TPM12 and TPM21 were excavated within the lower eastern plateau to Mound 2. BH2 encountered brown to dark grey brown sandy gravelly clay to 1.2m depth then a 2.7m thick layer of domestic refuse to 3.9m depth. Domestic refuse was also encountered in TPM12 and TPM21 from surface to 1.1m and 2.1m respectively, comprising of dark brown gravelly silt with inclusions of clothing, fabric, food packets, plastic bags, bin bags, drink cans, rope, carpet, barbed wire and glass.

TP26 located to the east of Mound 1 encountered a slightly clayey, gravelly, slightly organic, fine to coarse SAND.

Mound 3
The material encountered at Mound 3 in TP29, TPM18, TPM19 and TPM20 was described as a topsoil comprising brown and dark brown very sandy, gravelly clay / silt and gravelly sand, with occasional rootlets and gravel of sandstone, limestone and quartzite.

Mound 4
In Mound 4, material was similar to that encountered in Mounds 1 and 2. TPM22 and TPM23 encountered a reddish brown sandy gravelly clay / clayey gravelly sand, with rare brown pockets of clay and rare inclusions of black plastic pipe and black ceramics, brick and tarmac fragments.

A strong putrid organic odour was encountered at the base of Mound 4 at 92.35mAOD in TPM22 and 92.58mAOD in TPM23, below this a former compacted road surface was encountered comprising grey silty sandy gravel.

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7.0 Geo-environmental Assessment of the suitability of the mounds for re-use

7.1 Geo-environmental assessment

Mound 2 – lower eastern plateau

Approximately 10% (720m^3) of Mound 2 is estimated to be domestic refuse. This comprises the lower eastern plateau of Mound 2. No domestic waste was found in other mounds.

There are however, but in no significant quantities, rare inclusions of red brick fragments, coal, and some clinker throughout the reddish brown material. There are also very localised occurrences of scrap plastic and wire fencing within the reddish brown material. However, these were localised and not domestic waste similar to that encountered in the lower eastern plateau of Mound 2. Rare breeze blocks were also encountered towards the base and in the central area of Mound 1.

No laboratory analyses have been undertaken on the domestic waste material as this alone deems it unacceptable for re-use and should be disposed of off-site at a suitably licensed landfill.

Geo-environmental assessment of Mounds 1, 2, 3 and 4 (excluding domestic waste in lower eastern plateau)

Introduction

A total of 45No. soil samples were taken from all four mounds as part of both 2011 and 2012 ground investigations and submitted to a suitably accredited laboratory. In addition, 2:1 leachate and Waste Acceptance Criteria (WAC) testing was also undertaken on the soil samples. The number of samples analysed from each mound for each type of analyses are summarised in Table 2 below:

Table 2: Number of samples analysed in each mound

Mound	Number of soil dry weight analyses		Number of 2:1 soil leachate		Number of 2:1 soil leachate as part of WAC suite	
Ground Investigation	**2011**	**2012**	**2011**	**2012**	**2011**	**2012**
1	6	5	-	2	2	5
Perimeter & beneath Mound 1 (TPM24)	-	2	-	1	-	2
2	5	18	-	12	1	17
3	1	4	-	2	1	4
4	0	4	-	3	0	4
Total	**12**	**33**	**-**	**20**	**4**	**32**

The laboratory testing suite comprised of metals, non-metals inorganics, asbestos screen, speciated Polycyclic Aromatic Hydrocarbons (PAHs), Total Petroleum Hydrocarbons (TPHs) with carbon banding C6-C40, TPH aromatics and aliphatics C5-C35, Benzene, Toluene, Ethylbenzene, Xylene (BTEX), Volatile Organic Compounds (VOCs), semi-Volatile Organic Compounds (sVOCs), 2:1 soil leachate analyses and Waste Acceptance Criteria (WAC) testing.

A location plan of the trial pits are presented on Figure 1. Comparison with screening values is presented in Appendix A.

Assessment Methodologies

The assessment methodologies are presented in Table 3 below:

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Table 3: Assessment Methodologies

	Chemical Results	Assessment Criteria	Purpose
1	Soil dry weight	Commercial SGVs or GACs	Human health Re-use
2	2:1 Soil leachate	Environmental Quality Standards (EQS)	Re-use
3	Waste Acceptance Criteria testing	Hazardous / non-hazardous assessment and comparison with landfill waste acceptance criteria limit values	Off-site disposal

Note: SGV denotes Soil Guideline Values, GAC denotes Generic Assessment Criteria

The assessment methodologies listed in Table 3 above are described below:

1. The soil dry weight results have been compared to commercial soil screening values for human health risk assessment and re-use assessment. Each mound material has been assessed separately.

2. 2:1 soil leachate results and 2:1 soil leachate results from the Waste Acceptance Criteria (WAC) suite have been compared to Environmental Quality Standards (EQS), where the EQS is dependent on water hardness; the water hardness of the receiving surface water body has been applied. The Environment Agency has provided the water hardness of the Gwenfro of 343mg/l. Therefore for hardness dependent compounds have been assessed against EQS for hardness range above 250 mg/l.

3. The results of the dry weight analyses have been assessed using the HazWasteOnline™ computer package. This software allows an accurate classification of materials as hazardous or non-hazardous on the basis of the concentrations of "worst case compounds" contained within the samples. Once it is ascertained as to whether the materials are hazardous or non-hazardous, the results of the WAC leachate analyses are compared to Waste Acceptance Criteria for the relevant landfill class (inert, non hazardous, stable non-reactive hazardous).

   In summary, the laboratory analyses results of the samples obtained from the site have been assessed to:

   - Identify whether the materials are hazardous or non-hazardous (using HazWasteOnline computer model and dry weight analyses);
   - Identify to which landfill class materials would be accepted in accordance with current Waste Acceptance Criteria (based on WAC leachate analyses results – including additional limited dry weight analyses).

Soil Dry Weight Assessment

The soil chemical results comparison are presented in the Appendix A.

A detailed review of the 45No soil analytical results has been carried out on the mounds material for contamination screening purposes with respect to human health and is presented in Appendix A.
This assessment indicates the all of contaminants were measured at concentrations below the screening values.

Soil Leachate Assessment

As identified in Section 3 potential controlled waters receptors are the Gwenfro River and underlying groundwater classified as secondary A aquifer. Therefore soil and leachate testing was undertaken to inform the assessment of risk in relation to these receptors.

The soil leachate results comparison are presented in Appendix A. Cadmium, chromium, mercury and two of PAHs (indeno(123cd)pyrene and benzo(ghi)perylene) were measured with laboratory detection levels higher

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than the applied assessment criteria. Consequently, the assessment of potential risk to controlled waters cannot be undertaken for these compounds.

The majority of deteminands were measured below the applied assessment criteria in the mounds materials expect for a single slight exceedance of the applied assessment criterion for lead in one sample obtained from Mound 3 in TPM18 at 1.3m and PAHs measured at slightly elevated concentrations in two samples obtained from Mound 2 in TPM10 at 4m and TPM17 at 1.2m:

- lead was measured at 9 µg/l slightly above the applied EQS of 7.2 µg/l in Mound 3 in TPM18 at 1.3m
- two benzo(b)fluoranthene (0.05 µg/l and 0.06 µg/l) and two benzo(k)fluoranthene (0.03 µg/l and 0.04 µg/l) concentrations in TPM10 at 4m and TPM17 at 1.2m (Mound 2) are above the combined EQS of 0.03 µg/l.
- benzo(a)pyrene concentrations of 0.06 µg/l in TPM17 at 1.2m (Mound 2)measured above the EQS of 0.05 µg/l
- two indeno(123-cd)pyrene (0.01 µg/l and 0.03 µg/l) and benzo(ghi)perylene (0.01 µg/l and 0.05 µg/l) concentrations in TPM10 at 4m and TPM17 at 1.2m (Mound 2) are above the combined EQS of 0.002 µg/l.

This initial assessment identified marginal exceedances of the applied assessment criteria for lead in sample and PAHs in 2 samples (benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(123-cd)pyrene and benzo(ghi)perylene). These soil samples were obtained from Mounds 3 and 2 respectively.

7.1.1 Geo-environmental Summary

Soils

In summary, a detailed review of the 45No soil analytical results has been carried out on the mound material for contamination screening purposes with respect to human health Appendix A. This indicates that these mound materials are suitable for use within the proposed development in relation to site end-users.

In addition, the risk to site operatives during the earthworks is considered low and therefore the use of standard PPE (such as long sleeved site jackets and trousers, gloves and eye protection) and provision of standard welfare facilities is deemed sufficient except for handing of the refuse like materials. Operatives involved in these operations particularly where a direct contact with these materials is likely, as a minimum, should be equipped with disposable overalls, eyes protection, face masks ,and chemically and puncture resistant gloves.

Leachate

An assessment of soil leachate results has been undertaken in relation to the nearest surface water receptor, the Gwenfro, which flows along the southern boundary to the site. The majority of the proposed development is to be covered in hardstanding, which will significantly reduce if not eliminate the rainwater infiltration through the fill materials. However, in the areas of proposed planting the infiltration is expected to remain relatively high.

The identified exceedances, are not considered significant. However to prevent any impact on the quality of controlled water receptors, particularly from PAH compounds, it is recommended that the materials from Mound 2 are placed only in areas of proposed hardstanding and buildings.

7.1.2 Recommendations in relation to re-useability

A summary of the contamination assessment results is presented below in relation to human health and re-use, see Table 4 below. The last three columns of the table indicate the reuseability of the mound material based on chemical assessment of the materials.

It is estimated that 796m^3 of domestic refuse is present at the eastern side / eastern plateau of Mound 2. This domestic refuse is distinctively different from the Mound 2 material/soils. In terms of practicalities, removal of the domestic refuse from along the eastern side / plateau of mound 2 is anticipated to be straight forward by visually inspection as the material is removed. The domestic refuse should be disposed off site at a suitably licensed landfill.

Table 4: Summary of Suitability based on Contamination Assessment only

Mound & approx volume	Soil	Leachate	Re-use	Re-use: Suitable	Re-use: Not suitable
1 3,590m^3	✓	✓	Yes	100%	0%
2 7,164m^3	✓	✓	Yes, under hardstanding	100%	0%
2 - Eastern Plateau 796m^3	-	-	No, domestic refuse. To be disposed off site at a domestic landfill	0%	100%
3 610m^3	✓	✓	Yes	100%	0%
4 670m^3	✓	✓	Yes	100%	0%
ground beneath Mound 1 and 2	✓	✓	Yes	-	-
Total mounds 12,830 m^3	-	-	**Total:**	**12,034m^3**	**796 m^3**

Table 4 above provides a summary of the suitability of re-using the mound materials in the proposed development based on the contamination assessment only.

7.1.3 Geo-environmental conclusions

The assessments undertaken in relation potential risks to human health and controlled waters have indicated that the majority of the mounds materials except for the refuse materials within Mound 2 – eastern plateau are suitable for re-use within the proposed development.

It is however recommended that the Mound 2 materials identified as suitable for reuse (approximately 7,164m^3) are placed beneath the hardstanding and buildings only. This is to prevent any potential impacts on the quality of controlled waters receptors.

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8.0 Geotechnical Assessment of re-usability

Particle Size Distribution (PSD) tests, hand shear vane tests, moisture content and Atterberg limit tests, 2.5kg compaction tests and pH and sulphate tests were undertaken on samples from the trial pits.

The re-use of the materials encountered has been assessed in accordance with the Specification of Highway Works, Series 600 Earthworks. The materials encountered have been classified as follows:

Class 1 – General Granular Fill. Any material with less than 15% of particles passing the 63μm sieve. Material that had natural moisture contents slightly above or below the optimum moisture content in the compaction tests, and may require a small amount of wetting/drying before compaction. Material generally described as gravelly SAND or sandy GRAVEL.

Class 2 – General Cohesive Fill. Any material with over 15% of particles passing the 63μm sieve and with a minimum undrained shear strength of 50kPa. Material that had natural moisture contents slightly above the optimum moisture content in the compaction tests, and would require some drying before compaction. Material generally described as slightly clayey SAND or slightly clayey GRAVEL.

Class U1A – Unacceptable material, unless treated. Any material with over 15% of particles passing the 63μm sieve and with a minimum undrained shear strength of 50kPa, similar to Class 2 but material that had natural moisture contents above the optimum moisture content in the compaction tests, and would require significant drying / treatment to become suitable for Class 2. Material generally described as very clayey SAND or GRAVEL and material described as CLAY.

Class U1B – Unacceptable material that is contaminated or domestic refuse, as identified in the geo-environmental assessment. This material is unacceptable for re-use and must be sent to landfill.

From the geo-environmental assessment, approximately 10% of Mound 2 is domestic refuse is unsuitable for re-use. For the remaining material, the following percentages of Class 1, Class 2 and Class U1A have been estimated:

Table 5: Percentages of Class 1, Class 2 and Class U1A of the remaining material that isn't Class U1B

Mound	Class 1	Class 2	Class U1A
1	30	20	50
2	35	20	45
3	0	75	25
4	0	0	100

In Mound 1, the Class 1 material was the top 2m of TPM01, TPM04 & TPM05 with Class U1A underneath. TPM02 was all Class 2 and TPM03 was all Class U1A.

In Mound 2, the Northern end (TPM06, TPM07, TPM08, TPM10) was predominately Class U1A, with a small amount of Class 2 in TPM06 and the Northern end contained all of the Class U1A in Mound 2. The Southern end was predominantly Class 1 or 2. Class 1 was generally on the top 1- 3m (TPM09, TPM11, TPM13, TPM14, TPM15, TPM16, TPM17) with Class 2 below. TPM13 was the exception, with Class 2 over Class 1 and TPM09 encountered Class U1A rather than Class 2 under the Class 1. The eastern plateau of Mound 2 was domestic refuse (TPM12, TPM21).

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Mound 3 was generally Class 2, TPM20 had some Class U1A from 1 – 2.2m depth. Mound 4 was all Class U1A, encountered in TPM22 & TPM23.

The pH and sulphate test results undertaken fall within the BRE Special Digest 1 Design Sulphate Class DS-1 and assuming mobile groundwater conditions, the Aggressive Chemical Environment for Concrete (ACEC) class is AC-1. Therefore, suitable fill could be placed with 500mm of concrete if required.

As the ARC and Fire Training building will be plied with a suspended floor slab, the soils could be used as general fill, or Class 2 as defined in the specification for highway works. General access roads in embankments could be constructed with these soils, but capped with granular soils to get a CBR = 15%.

The material classed as Class U1A could be used as Class 2 if some treatment is undertaken.

- The material could be allowed to dry out. However, bearing in mind the typical British weather this is unlikely to happen.
- Alternatively, the material could be treated by adding 1-3% of lime. The assumption that 1% lime reduces the moisture content by approx. 3% is a good starting point. Laboratory tests (swelling) and field trials will be required to assess the suitability of the Class 2 soils for lime treatment. This is outside Arup's current brief, and will require discussions with specialist sub-contractors.
- The third option is to mix the Class 1 and Class 2 soils to try to get the moisture content down to an acceptable level. This can only be verified during the site operations by testing the mixed soils. However, bearing in mind that only 30% of soils that isn't domestic refuse are Class 1 it can be assumed that there is insufficient material to treat all the unsuitable Class 2. On this basis, it is suggested that only half of the Class U1A can be treated in this way, subject to confirmation during the site operations by laboratory testing of the moisture content.

Table 8 summarises the total volume of the mounds and the estimated percentage of unacceptable ClassU1B material and the estimated total percentages of Classes 1, 2 and U1A material.

9.0 Waste Characterisation Assessment

It is understood that there may be a requirement to remove some/all of the material mounds currently on the site. Should this occur, offsite disposal to landfill is considered likely, and therefore the materials require assessment in order to determine to which landfill class they could be disposed.

In accordance with the European Waste Catalogue (EWC), the materials encountered within the trial pits excavated have been classed as:

Mounds 1 to 4: 17 05 03*: Soil and stones containing dangerous substances (mirror entry)

Eastern plateau of Mound 2 (refuse): 20 03 01: mixed municipal wastes

Consequently, the dry weight analyses results (45No.) obtained from all four mounds have been initially assessed in accordance with current waste management guidelines, in order to determine whether they contain any hazardous properties. A separate assessment has been undertaken for each of the four mounds.

The results of the initial waste assessment (based on the dry weight analyses results) are presented below. It should be noted that should the contaminants recorded be identified to have potentially hazardous properties, they are (dependent on the associated hazards) either deemed to be hazardous without further assessment or are assessed further to confirm whether they are "truly hazardous".

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Initial Waste Classification Results

The results of the initial waste classification, using the HazWasteOnline model are enclosed within Appendix B.
It is noted that domestic refuse materials were encountered within the eastern plateau of Mound 2. As detailed in Section 5 of the EA's guidance on 'Waste Acceptance at Landfills' [1] a non hazardous landfill can accept municipal / domestic waste and therefore these materials were not analysed or assessed to determine potential landfill disposal options.

The initial assessment undertaken on the dry weight analyses results from each of the four mounds (excluding the eastern plateau of mound 2) of soil indicates the following:

Table 6: Identified Hazard Property

Sample Location	Sample location	Hazardous Property [Risk Phrase]	Contaminant	Initial Classification
Mound 1	BH01 at 0.5m	H12: produces hazardous gases when in contact with air, water or acid R32: "contact with acids liberates very toxic gas"	Total Cyanide (0.2mg/kg or 0.000020%)	Potentially hazardous
Mound 2	TP17 at 1m	H12: produces hazardous gases when in contact with air, water or acid R32: "contact with acids liberates very toxic gas"	Total Cyanide (0.1mg/kg or 0.000010%)	Potentially hazardous
Mound 3	-	-	-	Non hazardous
Mound 4	-	-	-	Non hazardous

Mound 1 and Mound 2
An initial potentially hazardous classification has arisen due to total Cyanide in BH01 at 0.5m (0.2mg/kg or 0.000020%) and TP17 at 1m (0.1mg/kg or 0.000010%). Any detectable concentration of cyanide is conservatively identified to fall under Hazard Class H12 "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

The potential hazard class has been assigned Risk Phrase R32 (defined in WM2[1] Hazardous Waste Guidance and Annex II of the revised Waste Framework Directive as 'contact with acids liberates very toxic gas'). Following review of the guidance set out in Appendix C12 of the Technical Guidance WM2, it is noted that the recorded percentage make-up of cyanide in each sample (0.00002% and 0.00001% in BH1 and TP17 respectively) is far less than the lowest threshold concentration (0.2%) provided in the guidance for cyanide reactions resulting in toxic gas (under risk phrase R32).

The recorded percentage concentrations of cyanide are considered to be very low. It is noted that the test detection limit applied to the cyanide analyses was predominantly 1mg/kg (which is greater than the detected concentrations in BH1 and TP17), and all concentrations recorded at less than detectable concentrations have not been identified as potentially hazardous.

[1] Hazardous Waste - Interpretation of the definition and classification of hazardous waste. Technical Guidance WM2. Second Edition, version 2.2). Environment Agency, Scottish Environment Protection Agency, Northern Ireland Environment Agency April 2011.

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On account of the above, the material sampled from BH1 and TP17 is not considered to be hazardous by virtue of hazard class H12, and therefore a **non-hazardous** classification is deemed most appropriate.

Mounds 3 & 4

No hazardous properties have been identified within the materials within mounds 3 and 4 and therefore these are considered to be **non-hazardous**.

Waste Acceptance Criteria

Non-hazardous materials can be disposed of to non-hazardous landfill sites without the need for further assessment, or can be assessed further against the criteria for disposal at an inert landfill site.

A total of 34No samples obtained from the mounds were analysed for the Inert Waste Acceptance Criteria suite (with the exception of the refuse materials within the eastern plateau of Mound 2). The results of the analyses undertaken have been screened against the inert landfill criteria, the results of which are summarised below:

Mound 1
The results of the WAC analyses undertaken on soil samples obtained from Mound 1 indicate the material to be compliant with the inert criteria.

Mound 2
Omitting the eastern plateau of mound 2 (which contains domestic refuse and is therefore suitable for non-hazardous disposal only) the results of the samples analysed meet the inert waste acceptance criteria.

Mound 3:
Analyses of samples from TP19 at 1.15m and 4.2m (within Mound 3) indicated total organic carbon to be present at levels (3.8% and 3.6% respectively) in excess of the inert waste acceptance criteria of 3%. Consequently, non-hazardous disposal is considered the most appropriate option for materials within Mound 3. It is noted however that some inert landfill sites may be permitted to receive materials with up to 6% TOC. Consequently, it may be considered prudent in the first instance, to confirm potential acceptance of the materials with an inert landfill operator. If considered unacceptable for inert disposal (by inert landfill operators) disposal at a non-hazardous landfill will be required.

Waste Classification Summary

Review of both the dry weight and WAC leachate analyses results in accordance with current waste management guidelines indicates the following disposal options for the material mounds currently on site.

Table 7: Waste Acceptance Criteria assessment

Location	Acceptable Landfill Class
Mound 1	**Inert** Landfill Disposal
Mound 2	**Inert** Landfill Disposal
Mound 2 eastern plateau - domestic waste	**Non-hazardous** Landfill Disposal
Mound 3	**Non-Hazardou**s Landfill Disposal – **Possible Inert** landfill disposal following confirmation with landfill operator.
Mound 4	**Inert** Landfill Disposal

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10.0 Conclusions and recommendations

The proposed development will result in a substantial cut and fill exercise. Current earthworks balance indicates that some 9,500m^3 of additional fill materials will be required to achieve the desirable final development level. Therefore it is proposed to reuse the materials currently contained within four mounds located on site. The approximate volume of these materials has been estimated at 12,830m^3. The suitability of these materials for reuse as fill has been assessed in terms of geo-environmental and geotechnical re-use criteria.

These assessments concluded that 49% of these materials (approximately 6,230 m^3) may be classified as Class 1 and 2, which means that they are suitable for reuse as general fill without any treatment. Further 45% (approximately 5,800m^3) requires treatment prior to reuse. Therefore, the mounds materials will be sufficient to balance the shortage of fill materials. In addition, it is recommended that any surplus mounds materials designated for disposal should be materials from mounds identified as suitable for disposal at inert landfill facilities such as Mound 1, 2 and 4 as this attracts the lowest costs.

The geo-environmental assessment identified some 800m^3 of mound materials as unsuitable for reuse (refuse materials in Mound 2) and which requires disposal. The waste characterisation assessment indicated that these materials are suitable for disposal at a non-hazardous landfill facility.

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Figures and Appendices

Figures

Figure 1 Exploratory Hole Location Plans
Figure 2 Proposed Formation Levels / Cut and Fill
Figure 3 Proposed Development

Appendices

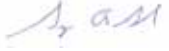
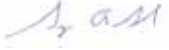
Appendix A Soil and Leachate Results Comparison with Screening Values (tables and detailed assessment)
Appendix B Initial Waste Classification

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Mound	Total Volume	Unacceptable material due to man-made inclusions / domestic refuse* (Class U1B)	%	Unacceptable as Class 2 unless treated (Class U1A)	%	Acceptable as General Granular Fill (Class 1)	%	Acceptable as General Cohesive Fill (Class 2)	%
1	3590	0	0	1795	50	1077	30	718	20
2	7960	796*	10*	3184	40	2388	30	1592	20
3	610	0	0	153	25	0	0	457	75
4	670	0	0	670	100	0	0	0	0
Total	**12830**	**796**	**8**	**5802**	**45**	**3465**	**27**	**2767**	**22**

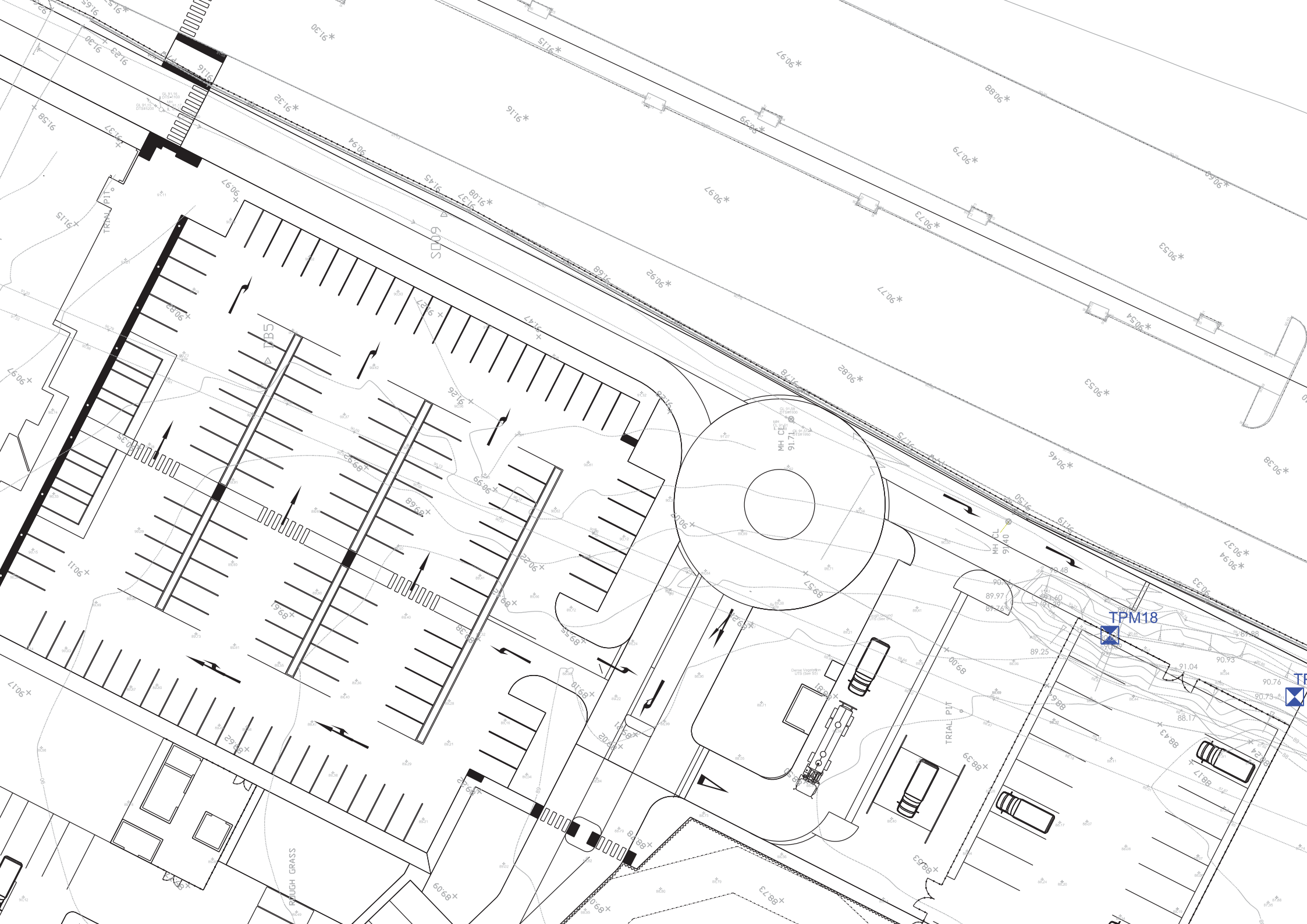
Table 8: Estimate of the total volume and percentage of material classed as Class 1 / Class2 / Class U1A and U1B. Volumes are in m^3.

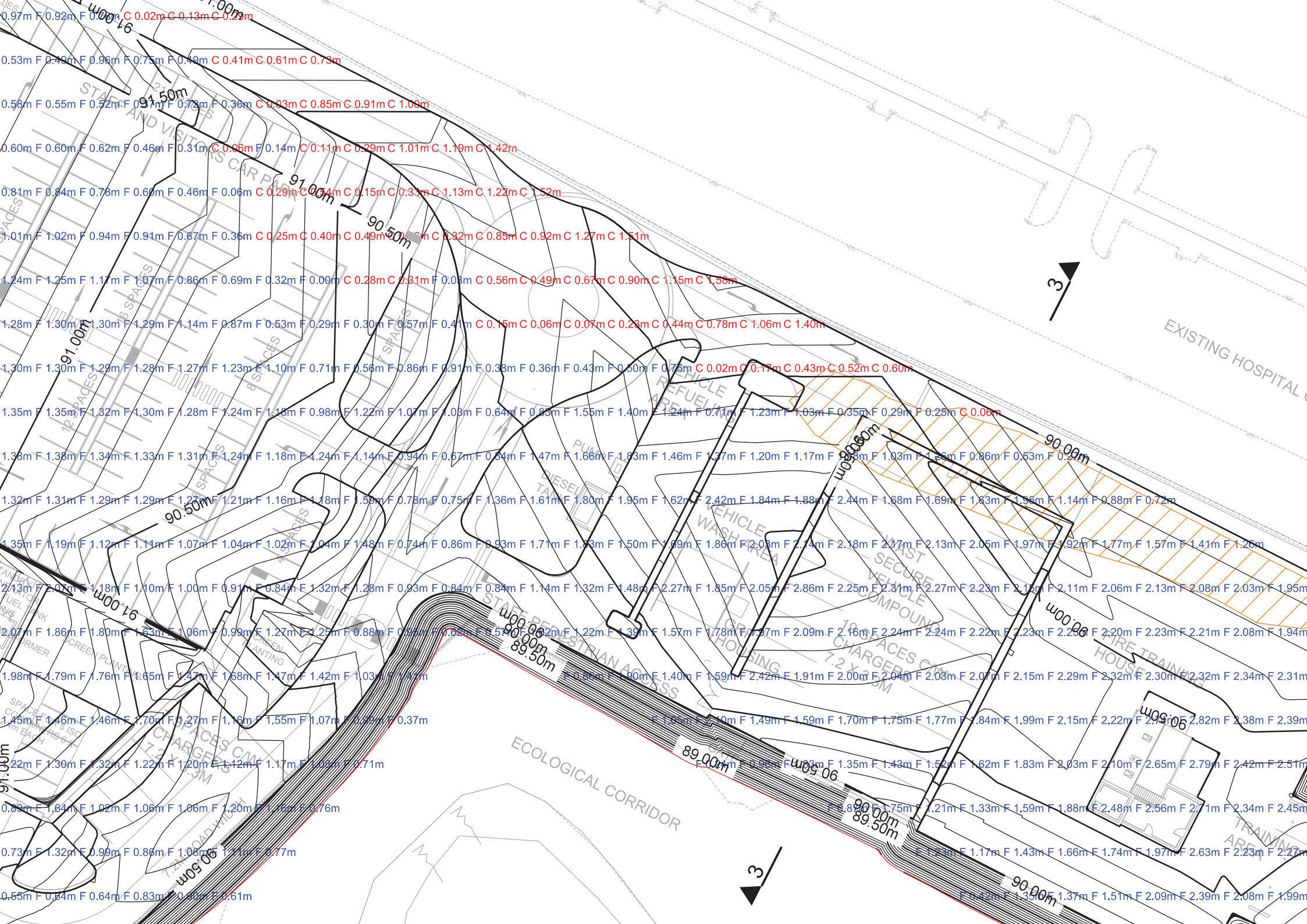
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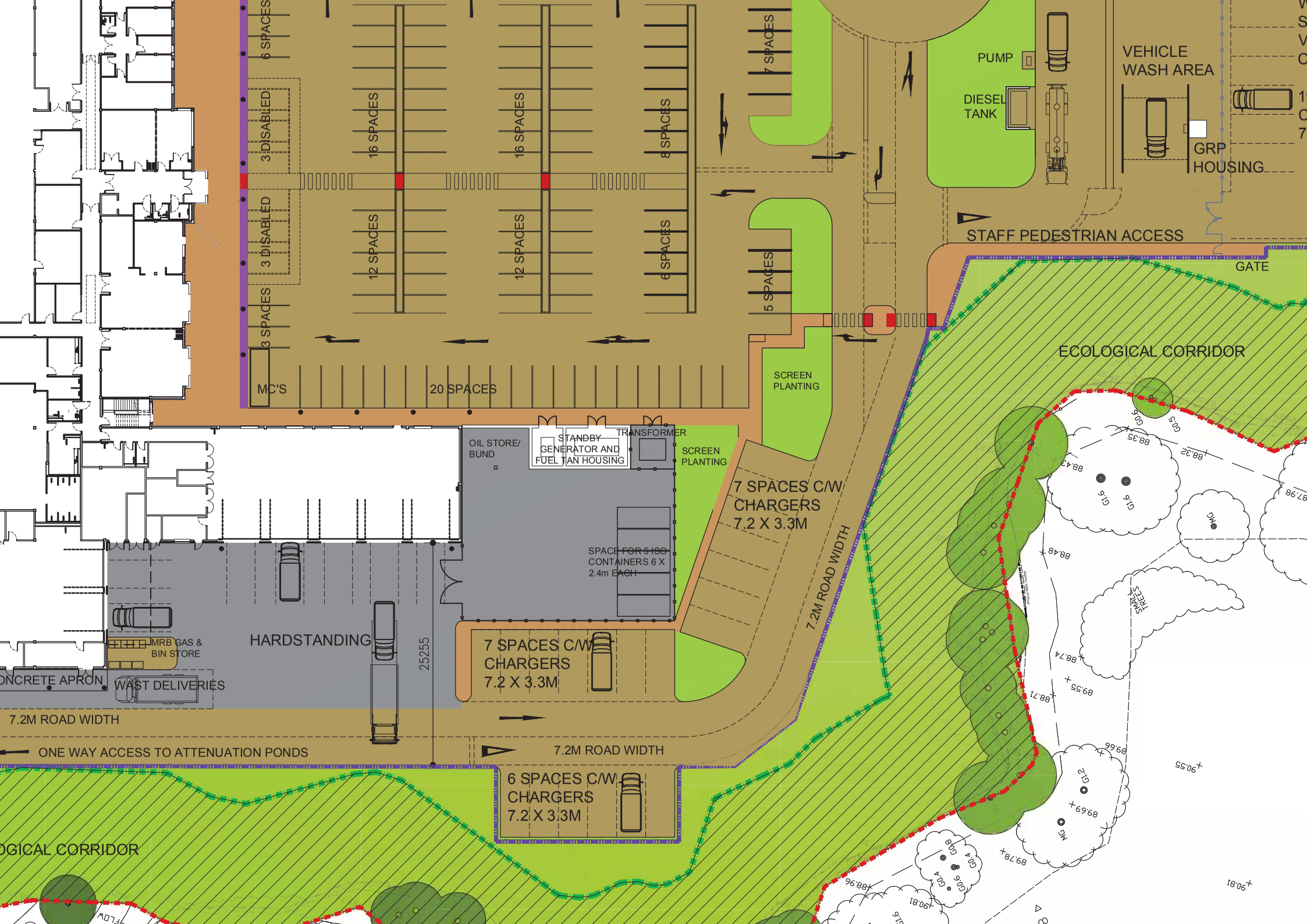
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Signature			

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Figures


TPM18
TRIAL PIT
ROUGH GRASS
SD09
DB5
MH
CL


STAFF AND VISITORS CAR PARK
EXISTING HOSPITAL
ECOLOGICAL CORRIDOR
VEHICLE REFUELLING AREA
VEHICLE WASH AREA
WASTE SECURE VEHICLE COMPOUND
10 SPACES C/W 7.2 X 3.6M CHARGERS
FIRE TRAINING HOUSE
TRAINING AREA
STAFF PEDESTRIAN ACCESS
3
91.00m
91.50m
90.50m
90.00m
89.50m
89.00m


6 SPACES
3 DISABLED
3 DISABLED
3 SPACES
16 SPACES
16 SPACES
12 SPACES
12 SPACES
8 SPACES
6 SPACES
7 SPACES
5 SPACES
MC'S
20 SPACES
PUMP
DIESEL TANK
VEHICLE WASH AREA
GRP HOUSING
STAFF PEDESTRIAN ACCESS
GATE
SCREEN PLANTING
ECOLOGICAL CORRIDOR
OIL STORE/ BUND
STANDBY GENERATOR AND FUEL TAN HOUSING
TRANSFORMER
SCREEN PLANTING
7 SPACES C/W CHARGERS 7.2 X 3.3M
7.2M ROAD WIDTH
SPACE FOR 5 ISO CONTAINERS 6 X 2.4m EACH
HARDSTANDING
MRB GAS & BIN STORE
CONCRETE APRON
WAST DELIVERIES
25255
7 SPACES C/W CHARGERS 7.2 X 3.3M
7.2M ROAD WIDTH
ONE WAY ACCESS TO ATTENUATION PONDS
7.2M ROAD WIDTH
6 SPACES C/W CHARGERS 7.2 X 3.3M
OGICAL CORRIDOR

Appendix A

Soil and soil leachate laboratory testing results

0.5	13	38	<0.05	12	11	43	<0.5			8.7	0.2	
0.2	9	27	<0.05	8	8	27	<0.5			8.3	<0.1	
0.2	7	23	<0.05	8	8	23	<0.5			8.4	<0.1	
0.2	10	25	<0.05	9	7	27	<0.5			8.4	<0.1	
0.2	11	24	<0.05	10	8	28	0.5			8.4	<0.1	
0.3	13	32	<0.05	9	8	33	<0.5			8.4		
<0.5	26	99	<0.5	39	32	84	1.1	<2	<0.5	8.0	<1	<1
<0.5	13	29	<0.5	14	18	46	0.5	<2	<0.5	8.1	<1	<1
<0.5	20	55	<0.5	20	20	61	0.6	<2	<0.5	8.2	<1	<1
<0.5	11	25	<0.5	14	14	40	<0.5	<2	<0.5	8.0	<1	<1
<0.5	10	31	<0.5	12	12	38	<0.5	<2	<0.5	8.2	<1	<1
<0.5	14	29	<0.5	17	16	51	<0.5	<2	<0.5	8.0	<1	<1
<0.5	21	91	<0.5	20	26	97	1.3	<2	<0.5	8.2	<1	<1
<0.5	27	24	<0.5	30	18	51	<0.5	<2	<0.5	8.2	<1	<1
<0.5	11	26	<0.5	13	16	39	<0.5	<2	<0.5	8.2	<1	<1
0.8	21	69	<0.5	49	22	91	1.1	<2	<0.5	8.3	<1	<1
0.7	24	134	<0.5	123	32	116	1.8	<2	<0.5	8.1	<1	<1
<0.5	7	26	<0.5	11	12	32	<0.5	<2	<0.5	8.3	<1	<1
<0.5	8	21	<0.5	10	10	36	<0.5	<2	<0.5	8.2	<1	<1
<0.5	24	28	<0.5	32	22	60	<0.5	<2	<0.5	8.1	<1	<1
<0.5	8	31	<0.5	11	13	35	<0.5	<2	<0.5	8.0	<1	<1
<0.5	11	50	<0.5	15	15	47	1.4	<2	<0.5	8.0	<1	<1
<0.5	8	51	<0.5	12	15	43	1.5	<2	<0.5	8.0	<1	<1
<0.5	8	29	<0.5	10	12	39	0.5	<2	<0.5	8.0	<1	<1
0.4	19	26	<0.05	23	17	51	<0.5			8.4	<0.1	
0.6	22	59	0.05	14	15	83	0.1			8.3	0.1	
0.3	17	38	<0.05	10	11	37	<0.5			8.4	<0.1	
0.3	11	34	<0.05	10	9	37	<0.5			8.6	<0.1	
0.3	14	38	<0.05	10	11	45	<0.5			8.6		
<0.5	10	201	<0.5	16	17	92	1.5	<2	<0.5	8.1	<1	<1
<0.5	17	129	<0.5	27	26	95	1.7	<2	<0.5	7.8	<1	<1
<0.5	16	54	<0.5	18	11	39	0.6	<2	<0.5	7.7	<1	<1
1.1	17	341	<0.5	33	40	314	2.1	<2	<0.5	7.2	<1	<1
0.5	15	35	<0.05	19	13	45	<0.5			8.5	<0.1	
<0.5	6	56	<0.5	14	16	69	0.8	<2	<0.5	7.2	<1	<1
<0.5	10	11	<0.5	8	33	10	0.9	<2	<0.5	8.3	<1	<1
<0.5	17	47	<0.5	13	15	13	0.8	<2	<0.5	7.3	<1	<1
<0.5	12	45	<0.5	14	15	60	0.6	<2	<0.5	7.5	<1	<1
<0.5	12	36	<0.5	22	20	68	1.5	<2	<0.5	8.3	<1	<1
<0.5	11	391	<0.5	15	11	43	0.9	<2	<0.5	8.2	<1	<1

	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2	0.037	0.079	0.492	1.264	1.285	1.233	0.929	0.624	0.146	0.681	0.011
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1	0.014	0.130	0.130	0.159	0.156	0.153	0.128	0.138	0.016	0.168	<0.01
	<0.1	<0.1	1.6	1.9	1.9	1.6	1.9	2.0	<0.1	2.7	<0.1
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.059	<0.01
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4	0.034	0.046	0.418	0.661	0.744	0.817	0.537	0.469	0.084	0.557	<0.01
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1	<0.01	<0.01	0.014	0.013	0.017	0.014	0.010	0.017	<0.01	0.026	<0.01
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	1.2	3.1	2.5	1.9	1.1	1.3	0.7	3.6	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	0.6	0.8	<0.1	0.7	<0.1
1	0.018	0.036	0.215	0.239	0.165	0.251	0.193	0.260	0.029	0.404	<0.01
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	<0.1	<0.1	1.0	1.2	1.2	1.0	1.4	1.6	<0.1	1.6	<0.1
1	<0.01	<0.01	0.029	0.044	0.038	0.036	0.031	0.040	<0.01	0.059	<0.01
1	<0.01	<0.01	<0.01	<0.01	0.022	0.019	0.010	0.045	<0.01	0.028	0.013
1	<0.01	<0.01	0.013	0.016	0.013	0.019	0.019	0.018	<0.01	0.030	<0.01
1	<0.01	<0.01	0.016	0.026	0.013	0.021	0.019	0.026	<0.01	0.045	<0.01
1	<0.01	<0.01	0.012	0.011	0.017	0.024	0.010	0.024	<0.01	0.025	<0.01
	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

0.3	7.1

0.1	**3.3**
2.6	**19.2**
10	**10**

sence of directly comparable screening values to screen the results

Aliphatic

EC_{10}-EC_{12}	>EC_{12}-EC_{16}	>EC_{16}-EC_{21}	>EC_{21}-EC_{35}		>EC_5-EC_6	>EC_6-EC_8	>EC_8-EC_{10}	>EC_{10}-EC_{12}	>EC_{12}-EC_{16}	>EC_{16}-EC_{21}	>EC_{21}-EC_{35}		TPH (C_5 - C_{35})		Benzene	Toluene
mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg		µg/kg	µg/kg
17000	**36000**	**28000**	**28000**		**3400**	**8300**	**2100**	**10000**	**61000**	**1600000**	**1600000**				**95000**	**4400000**
<0.1	<0.1	0.1	4.9		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.4		5.4		<10	<10
<0.1	<0.1	<0.1	1.4		<0.01	<0.01	<0.1	0.2	0.1	0.1	<0.1		1.8		<10	<10
<0.1	<0.1	<0.1	1.8		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.3		2.1		<10	<10
<1.5	<1.2	<1.5	<3.4		<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4		<10			
<1.5	<1.2	<1.5	<3.4		<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.1		<10			
<1.5	<1.2	<1.5	<3.4		<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4		<10			
<1.5	<1.2	<1.5	<3.4		<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4		<10			
<1.5	<1.2	<1.5	<3.4		<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4		<10			
<0.1	<0.1	<0.1	3.9		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.5		4.4		<10	<10
<0.1	<0.1	<0.1	2.8		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.2		3.0		<10	<10
<0.1	<0.1	0.8	40.5		<0.01	<0.01	<0.1	<0.1	<0.1	0.6	17.7		59.6		<10	<10
<0.1	<0.1	<0.1	8.4		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.7		9.1		<10	<10
<0.1	<0.1	<0.1	4.1		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.1		4.2		<10	<10
<0.1	0.2	3.2	74.5		<0.01	<0.01	<0.1	<0.1	0.7	5.6	113.9		198.1		<10	<10
<0.1	<0.1	<0.1	6.3		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	1.6		7.9		<10	<10
<0.1	<0.1	0.1	4.1		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.3		4.5		<10	<10
<0.1	<0.1	<0.1	1.7		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.4		2.1		<10	<10
<0.1	<0.1	<0.1	1.1		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.6		1.7		<10	<10
<0.1	<0.1	<0.1	0.7		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.7		1.4		<10	<10
<0.1	<0.1	<0.1	0.9		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.7		1.5		<10	<10
<0.1	<0.1	<0.1	<0.1		<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1		<10	<10
<0.1	<0.1	<0.1	0.6		<0.01	<0.01	<0.1	<0.1	<0.1	0.1	0.7		1.4		<10	<10
<1.5	<1.2	<1.5	<3.4		<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4		<10			
<1.5	<1.2	1.7	70.0		<0.01	<0.01	<0.01	<0.9	<0.5	9.6	210.0		290.0			

10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1
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10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14

Phenol	Bis(2-chloroethyl) ether	Benzene, 1,3-dichloro-	Benzene, 1,4-dichloro-	Benzene, 1,2-dichloro-	Phenol, 2-methyl-	Ethane, hexachloro-	Phenol, 3-methyl-	Nitrobenzene	Isophorone	Phenol, 2-nitro-	Phenol, 2,4-dimethyl-	Methane, bis(2-chloroethoxy	Phenol, 2,4-dichloro-	1,3,4-Trichlorobenzene,	Naphthalene	4-Chloroaniline	Hexachloro-1,3-butadiene	Phenol, 4-chloro-3-methyl-	Naphthalene, 2-methyl-
µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	---	<10	<10	<10	<1
36	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	---	<10	<10	<10	13
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	---	<10	<10	<10	<1
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10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	---	<10	<10	<10	<1
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10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	---	<10	<10	<10	42
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	---	<10	<10	<10	<1

10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

4	**14**	**14**	**14**	**14**	**14**	**14**	**14**	**14**	**14**	**14**	**14**	**14**	**14**

ds (sVOC)

2,4-Dinitrotoluene	2,3,4,6-Tetrachlorophenol,	2,3,5,6-Tetrachlorophenol,	Diethylphthalate	Fluorene	Diphenylamine	Azobenzene	4-Bromophenyl phenyl ether	Hexachlorobenzene	Pentachlorophenol	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzylbutylphthalate	Bis(2-ethylhexyl)adipate	Benzo(a)anthracene	Chrysene	Bis(2-ethylhexyl)phthalate	Benzo(b)fluoranthene
/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
10	<10	<10	55	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
10	<10	<10	70	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
10	<10	<10	46	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
10	<10	<10	42	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
10	<10	<10	45	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
10	<10	<10	<10	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
10	<10	<10	39	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
10	<10	<10	33	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
10	<10	<10	39	---	<10	<10	<10	<10	<10	---	---	---	---	<10	<10	---	---	<10	---
10	<10	<10	<10		<10	<10	<10	<10	<10					<10	<10			<10	

<1	<5	<1	<5	<5	9	<0.1	<5	7.7		
<1	<5	2	<1	12	25	<0.1	<5	7.2	<5	
<2	<5	<4	<10	<2	<1	<0.05	<3			*
<1	<5	<1	<5	7	<5	<0.1	<5	8.2		*
<1	<5	<1	<1	<5	9	<0.1	<5	7.3	<5	
<1	<5	<1	<1	8	5	<0.1	<5	7.1	<5	
<1	<5	<1	1	14	7	<0.1	<5	7.5	<5	
<1	<5	<1	<1	<5	<5	<0.1	<5	7.6	<5	
<1	<5	<1	<5	<5	5	<0.1	<5	8.4	<5	

<1	<5	<1	<1	<2	<1	<0.05	<3	7.1	<5
<2	<5	9	10	14	25	<0.1	<5	8.4	<5
38	38	38	38	38	38	38	38	32	21

	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene
	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg
	n/a	**n/a**	**n/a**	**n/a**	**n/a**	**0.1**	**n/a**	**n/a**	**n/a**	**0.03**	
	0.03	0.06	0.08	0.11	0.03	0.03	0.02	<0.01	<0.01	<0.01	<0.
	0.02	0.05	0.07	0.10	0.02	0.03	0.02	<0.01	<0.01	<0.01	<0.
	0.03	0.07	0.08	0.09	0.03	0.04	0.02	<0.01	<0.01	<0.01	<0.
	0.02	0.04	0.06	0.07	0.03	0.03	0.20	<0.01	<0.01	<0.01	<0.
	0.03	0.06	0.06	0.09	0.03	0.04	0.02	<0.01	<0.01	<0.01	<0.
	0.03	0.12	0.11	0.14	0.05	0.05	0.03	<0.01	<0.01	<0.01	<0.
	0.03	0.13	0.09	0.14	0.05	0.05	0.04	0.04	0.07	0.05	0.0
	0.04	0.07	0.07	0.09	0.02	0.03	0.02	<0.01	<0.01	<0.01	<0.
	0.01	0.05	0.06	0.08	0.03	0.03	0.02	<0.01	<0.01	<0.01	<0.
	0.01	0.02	0.03	0.06	0.02	0.03	0.02	<0.01	0.01	<0.01	<0.
	0.01	0.04	0.05	0.09	0.04	0.03	0.02	<0.01	<0.01	<0.01	<0.
	0.01	0.03	0.05	0.11	0.03	0.03	0.02	<0.01	<0.01	<0.01	<0.
	0.02	0.04	0.06	0.09	0.03	0.03	0.02	<0.01	<0.01	<0.01	<0.
	0.01	0.02	0.02	0.08	0.02	0.05	0.05	0.03	0.05	0.06	0.0
	0.03	0.05	0.07	0.12	0.04	0.04	0.03	<0.01	<0.01	<0.01	<0.
	0.01	0.03	0.05	0.08	0.03	0.03	0.02	<0.01	<0.01	<0.01	<0.
	<0.01	0.01	0.01	0.03	0.01	0.10	<0.01	<0.01	<0.01	<0.01	<0.
	0.02	0.04	0.04	0.06	0.02	0.02	0.01	<0.01	<0.01	<0.01	<0.
	0.01	0.03	0.04	0.08	0.02	0.02	0.01	<0.01	<0.01	<0.01	<0.
	0.02	0.03	0.05	0.07	0.02	0.02	0.01	<0.01	<0.01	<0.01	<0.

	<0.01	0.01	0.01	0.03	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.
	0.04	0.13	0.11	0.14	0.05	0.10	0.20	0.04	0.07	0.06	0.0
	20	20	20	20	20	20	20	20	20	20	2

Appendix B

Waste classification

Unit A2
Windmill Road
Ponswood Industrial Estate
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2683 2683

THE ENVIRONMENTAL LABORATORY LTD

Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42075				Landfill Waste Acceptance Critena Limits		
Sampling Date	19/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM01						
Depth	1.90						
Solid Waste Analysis							
TOC (%)	0.9				3%	5%	6%
Loss on Ignition (%)**	2.2				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	5				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	7.9				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.008	0.008		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	0.006		<0.1	4	50	200
Chloride*	2	4		24	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	15	3		36	1000	20000	50000
TDS	170	390		2298	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	10.1	10.7		70	500	800	1000
Leach Test Information							
pH *	8.0	7.6					
EC*	161	106					
Sample Mass (kg)	0.192						
Dry Matter (%)	91						
Moisture (%)	11						
Stage 1							
Volume Eluate L2 (litres)	0.331						
Filtered Eluate VE1 (litres)	0.236						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

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Unit A2
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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42076				Landfill Waste Acceptance Critena Limits		
Sampling Date	19/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM02						
Depth	4.20						
Solid Waste Analysis							
TOC (%)	1.3				3%	5%	6%
Loss on Ignition (%)**	3.1				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	2				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	7.9				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.040	0.017		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.008	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.006	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.020	0.005		<0.1	4	50	200
Chloride*	12	3		9	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	186	23		109	1000	20000	50000
TDS	560	440		924	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	10.7	7.3		16	500	800	1000
Leach Test Information							
pH *	8.1	7.7					
EC*	621	176					
Sample Mass (kg)	0.293						
Dry Matter (%)	60						
Moisture (%)	79						
Stage 1							
Volume Eluate L2 (litres)	0.212						
Filtered Eluate VE1 (litres)	0.068						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Unit A2
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THE ENVIRONMENTAL LABORATORY LTD

Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42077				Landfill Waste Acceptance Critena Limits		
Sampling Date	19/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM03						
Depth	2.50						
Solid Waste Analysis							
TOC (%)	2.2				3%	5%	6%
Loss on Ignition (%)**	1.4				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	2				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.1				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.020	0.021		0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.011	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.008	0.006		<0.1	4	50	200
Chloride*	5	4		21	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	34	5		55	1000	20000	50000
TDS	270	360		1749	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	12.8	10.3		55	500	800	1000
Leach Test Information							
pH *	8.1	7.9					
EC*	227	110					
Sample Mass (kg)	0.206						
Dry Matter (%)	85						
Moisture (%)	20						
Stage 1							
Volume Eluate L2 (litres)	0.315						
Filtered Eluate VE1 (litres)	0.176						

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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42078				Landfill Waste Acceptance Critena Limits		
Sampling Date	19/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM04						
Depth	1.00						
Solid Waste Analysis							
TOC (%)	0.2				3%	5%	6%
Loss on Ignition (%)**	0.7				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	3				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.2				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	<0.005	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	3	3		21	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	2	<5		3	1000	20000	50000
TDS	200	190		1322	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	9.7	9.4		65	500	800	1000
Leach Test Information							
pH *	7.9	7.4					
EC*	81	39					
Sample Mass (kg)	0.191						
Dry Matter (%)	92						
Moisture (%)	9						
Stage 1							
Volume Eluate L2 (litres)	0.334						
Filtered Eluate VE1 (litres)	0.220						

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THE ENVIRONMENTAL LABORATORY LTD

Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42079				Landfill Waste Acceptance Critena Limits		
Sampling Date	19/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM05						
Depth	3.00						
Solid Waste Analysis							
TOC (%)	0.4				3%	5%	6%
Loss on Ignition (%)**	1.3				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	8				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.0				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.007	0.007		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	5	2		17	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	16	1		26	1000	20000	50000
TDS	160	380		2248	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	9.8	11.1		72	500	800	1000
Leach Test Information							
pH *	8.0	7.6					
EC*	130	71					
Sample Mass (kg)	0.192						
Dry Matter (%)	91						
Moisture (%)	11						
Stage 1							
Volume Eluate L2 (litres)	0.332						
Filtered Eluate VE1 (litres)	0.230						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42080				Landfill Waste Acceptance Critena Limits		
Sampling Date	19/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM06						
Depth	1.00						
Solid Waste Analysis							
TOC (%)	0.4				3%	5%	6%
Loss on Ignition (%)**	1.3				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	4				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.0				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.006	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	2	3		18	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	3	2		14	1000	20000	50000
TDS	190	390		2273	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	10.3	9.3		61	500	800	1000
Leach Test Information							
pH *	8.1	7.6					
EC*	126	58					
Sample Mass (kg)	0.194						
Dry Matter (%)	90						
Moisture (%)	12						
Stage 1							
Volume Eluate L2 (litres)	0.330						
Filtered Eluate VE1 (litres)	0.198						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42081				Landfill Waste Acceptance Critena Limits		
Sampling Date	19/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM07						
Depth	2.50						
Solid Waste Analysis							
TOC (%)	1.4				3%	5%	6%
Loss on Ignition (%)**	1.4				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	3				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.1				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.025	0.012		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.006	<0.005		<0.1	4	50	200
Chloride*	3	3		20	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	14	3		34	1000	20000	50000
TDS	180	320		1973	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	9.5	9.7		65	500	800	1000
Leach Test Information							
pH *	8.1	7.8					
EC*	164	96					
Sample Mass (kg)	0.192						
Dry Matter (%)	91						
Moisture (%)	10						
Stage 1							
Volume Eluate L2 (litres)	0.332						
Filtered Eluate VE1 (litres)	0.224						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42082				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	19/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM08						
Depth	1.00						
Solid Waste Analysis							
TOC (%)	1.0				3%	5%	6%
Loss on Ignition (%)**	2.9				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	60				500	--	--
Total PAH (mg/kg)**	18.5				100	--	--
pH (Units)**	8.2				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.010	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	3	4		24	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	15	3		35	1000	20000	50000
TDS	190	230		1420	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	9.7	10.2		65	500	800	1000
Leach Test Information							
pH *	8.1	7.8					
EC*	179	93					
Sample Mass (kg)	0.195						
Dry Matter (%)	90						
Moisture (%)	12						
Stage 1							
Volume Eluate L2 (litres)	0.329						
Filtered Eluate VE1 (litres)	0.228						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42084				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM09						
Depth	2.00						
Solid Waste Analysis							
TOC (%)	0.3				3%	5%	6%
Loss on Ignition (%)**	1.9				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	9				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.0				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	<0.005	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	3	2		15	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	5	1		12	1000	20000	50000
TDS	150	210		1306	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	8.1	7.0		48	500	800	1000
Leach Test Information							
pH *	8.0	7.9					
EC*	117	70					
Sample Mass (kg)	0.193						
Dry Matter (%)	91						
Moisture (%)	11						
Stage 1							
Volume Eluate L2 (litres)	0.331						
Filtered Eluate VE1 (litres)	0.240						

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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42085				Landfill Waste Acceptance Critena Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM10						
Depth	1.00						
Solid Waste Analysis							
TOC (%)	0.6				3%	5%	6%
Loss on Ignition (%)**	1.5				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)	<0.01				1	--	--
Mineral Oil (mg/kg)**	4				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.2				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	<0.005	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	3	3		21	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	69	1		94	1000	20000	50000
TDS	230	290		1909	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	9.3	10.2		69	500	800	1000
Leach Test Information							
pH *	8.1	7.8					
EC*	137	84					
Sample Mass (kg)	0.191						
Dry Matter (%)	92						
Moisture (%)	10						
Stage 1							
Volume Eluate L2 (litres)	0.333						
Filtered Eluate VE1 (litres)	0.224						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42086				Landfill Waste Acceptance Critena Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM10						
Depth	4.00						
Solid Waste Analysis							
TOC (%)	1.9				3%	5%	6%
Loss on Ignition (%)**	3.9				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	198				500	--	--
Total PAH (mg/kg)**	22.1				100	--	--
pH (Units)**	8.0				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.026	0.010		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.006	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.007	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.008	0.006		<0.1	4	50	200
Chloride*	6	5		30	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	74	8		135	1000	20000	50000
TDS	320	410		2255	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	12.2	7.5		50	500	800	1000
Leach Test Information							
pH *	8.1	7.9					
EC*	320	110					
Sample Mass (kg)	0.201						
Dry Matter (%)	87						
Moisture (%)	16						
Stage 1							
Volume Eluate L2 (litres)	0.322						
Filtered Eluate VE1 (litres)	0.236						

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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42087				Landfill Waste Acceptance Critena Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM11						
Depth	1.10						
Solid Waste Analysis							
TOC (%)	0.5				3%	5%	6%
Loss on Ignition (%)**	1.7				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	8				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.2				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.012	0.010		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	0.005		<0.1	4	50	200
Chloride*	4	2		17	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	14	2		31	1000	20000	50000
TDS	140	160		1113	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	8.5	10.3		71	500	800	1000
Leach Test Information							
pH *	8.1	7.9					
EC*	146	82					
Sample Mass (kg)	0.189						
Dry Matter (%)	93						
Moisture (%)	8						
Stage 1							
Volume Eluate L2 (litres)	0.335						
Filtered Eluate VE1 (litres)	0.246						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42088				Landfill Waste Acceptance Critena Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM11						
Depth	2.00						
Solid Waste Analysis							
TOC (%)	0.4				3%	5%	6%
Loss on Ignition (%)**	2.2				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	6				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.2				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.010	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.006	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.006	0.008		<0.1	4	50	200
Chloride*	4	3		23	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	15	3		38	1000	20000	50000
TDS	190	250		1681	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	8.7	9.8		68	500	800	1000
Leach Test Information							
pH *	8.0	7.8					
EC*	172	86					
Sample Mass (kg)	0.189						
Dry Matter (%)	92						
Moisture (%)	9						
Stage 1							
Volume Eluate L2 (litres)	0.335						
Filtered Eluate VE1 (litres)	0.248						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42089				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM12						
Depth	4.50						
Solid Waste Analysis							
TOC (%)	0.7				3%	5%	6%
Loss on Ignition (%)**	1.7				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	6				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.3				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.020	0.010		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	3	4		28	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	6	2		21	1000	20000	50000
TDS	150	160		1154	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	8.7	6.8		53	500	800	1000
Leach Test Information							
pH *	8.0	7.8					
EC*	122	68					
Sample Mass (kg)	0.188						
Dry Matter (%)	93						
Moisture (%)	8						
Stage 1							
Volume Eluate L2 (litres)	0.336						
Filtered Eluate VE1 (litres)	0.268						

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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42090				Landfill Waste Acceptance Critena Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM13						
Depth	1.00						
Solid Waste Analysis							
TOC (%)	1.9				3%	5%	6%
Loss on Ignition (%)**	4.2				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	5				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.1				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.019	0.013		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.006	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.009	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.005	0.008		<0.1	4	50	200
Chloride*	4	4		23	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	17	4		39	1000	20000	50000
TDS	220	420		2162	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	10.9	7.6		48	500	800	1000
Leach Test Information							
pH *	8.1	7.9					
EC*	212	108					
Sample Mass (kg)	0.200						
Dry Matter (%)	87						
Moisture (%)	16						
Stage 1							
Volume Eluate L2 (litres)	0.322						
Filtered Eluate VE1 (litres)	0.218						

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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42091				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM13						
Depth	4.00						
Solid Waste Analysis							
TOC (%)	0.3				3%	5%	6%
Loss on Ignition (%)**	1.2				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	2				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.3				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.031	0.009		0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	0	4			800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	0	7			1000	20000	50000
TDS	270	370		2627	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	7.6	7.5		56	500	800	1000
Leach Test Information							
pH *	7.9	7.8					
EC*	309	86					
Sample Mass (kg)	0.187						
Dry Matter (%)	94						
Moisture (%)	7						
Stage 1							
Volume Eluate L2 (litres)	0.338						
Filtered Eluate VE1 (litres)	0.264						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42092				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM14						
Depth	1.40						
Solid Waste Analysis							
TOC (%)	0.2				3%	5%	6%
Loss on Ignition (%)**	0.9				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	2				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.2				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	<0.005	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	3	3		23	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	2	<5		3	1000	20000	50000
TDS	70	50		405	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	9.9	10.3		77	500	800	1000
Leach Test Information							
pH *	8.0	7.6					
EC*	97	52					
Sample Mass (kg)	0.186						
Dry Matter (%)	94						
Moisture (%)	7						
Stage 1							
Volume Eluate L2 (litres)	0.338						
Filtered Eluate VE1 (litres)	0.248						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42093				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM14						
Depth	3.00						
Solid Waste Analysis							
TOC (%)	0.2				3%	5%	6%
Loss on Ignition (%)**	1.3				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	1				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.1				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	<0.005	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	0.007		<0.1	4	50	200
Chloride*	3	3		23	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	2	1		9	1000	20000	50000
TDS	160	110		903	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	9.3	10.3		77	500	800	1000
Leach Test Information							
pH *	7.7	7.3					
EC*	59	32					
Sample Mass (kg)	0.186						
Dry Matter (%)	94						
Moisture (%)	7						
Stage 1							
Volume Eluate L2 (litres)	0.339						
Filtered Eluate VE1 (litres)	0.234						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42094				Landfill Waste Acceptance Critena Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM15						
Depth	2.20						
Solid Waste Analysis							
TOC (%)	0.1				3%	5%	6%
Loss on Ignition (%)**	0.9				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	7				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.0				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	<0.005	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	3	4		29	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	2	2		15	1000	20000	50000
TDS	120	50		474	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	7.8	6.7		52	500	800	1000
Leach Test Information							
pH *	7.8	7.3					
EC*	86	37					
Sample Mass (kg)	0.186						
Dry Matter (%)	94						
Moisture (%)	7						
Stage 1							
Volume Eluate L2 (litres)	0.338						
Filtered Eluate VE1 (litres)	0.242						

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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42095				Landfill Waste Acceptance Critena Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM16						
Depth	0.20						
Solid Waste Analysis							
TOC (%)	0.3				3%	5%	6%
Loss on Ignition (%)**	2.6				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)	<0.01				1	--	--
Mineral Oil (mg/kg)**	2				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.0				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.010	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	0.009		<0.1	4	50	200
Chloride*	3	3		21	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	4	<5		5	1000	20000	50000
TDS	130	100		742	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	8.6	10.0		68	500	800	1000
Leach Test Information							
pH *	8.0	7.5					
EC*	127	58					
Sample Mass (kg)	0.190						
Dry Matter (%)	92						
Moisture (%)	9						
Stage 1							
Volume Eluate L2 (litres)	0.334						
Filtered Eluate VE1 (litres)	0.240						

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Waste Acceptance Criteria **ANALYTICAL** ***RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42107				Landfill Waste Acceptance Critena Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM16						
Depth	2.00						
Solid Waste Analysis							
TOC (%)	1.2				3%	5%	6%
Loss on Ignition (%)**	2.0				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	<5				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.1				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.011	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.010	<0.005		<0.1	4	50	200
Chloride*	0	0			800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	0	0			1000	20000	50000
TDS	200	190		1333	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	11.7	12.5		86	500	800	1000
Leach Test Information							
pH *	8.1	7.9					
EC*	162	81					
Sample Mass (kg)	0.190						
Dry Matter (%)	92						
Moisture (%)	9						
Stage 1							
Volume Eluate L2 (litres)	0.334						
Filtered Eluate VE1 (litres)	0.230						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42096				Landfill Waste Acceptance Critena Limits		
Sampling Date	---				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM17						
Depth	1.20						
Solid Waste Analysis							
TOC (%)	0.5				3%	5%	6%
Loss on Ignition (%)**	1.1				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	1				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.4				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	<0.005	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	3	2		16	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	3	<5		4	1000	20000	50000
TDS	80	40		355	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	8.8	5.6		46	500	800	1000
Leach Test Information							
pH *	8.0	7.7					
EC*	114	65					
Sample Mass (kg)	0.187						
Dry Matter (%)	93						
Moisture (%)	7						
Stage 1							
Volume Eluate L2 (litres)	0.337						
Filtered Eluate VE1 (litres)	0.254						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42097				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	21/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM18						
Depth	1.30						
Solid Waste Analysis							
TOC (%)	0.4				3%	5%	6%
Loss on Ignition (%)**	4.1				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	7				500	--	--
Total PAH (mg/kg)**	3.6				100	--	--
pH (Units)**	8.1				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.031	0.019		0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	0.009	0.009		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.008	0.006		<0.1	4	50	200
Chloride*	3	4		22	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	16	3		34	1000	20000	50000
TDS	210	90		672	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	7.8	8.5		48	500	800	1000
Leach Test Information							
pH *	8.0	7.8					
EC*	179	71					
Sample Mass (kg)	0.202						
Dry Matter (%)	87						
Moisture (%)	16						
Stage 1							
Volume Eluate L2 (litres)	0.322						
Filtered Eluate VE1 (litres)	0.228						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42098				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	21/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM19						
Depth	1.15						
Solid Waste Analysis							
TOC (%)	3.8				3%	5%	6%
Loss on Ignition (%)**	6.6				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	2				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	7.8				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.035	0.018		0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.009	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.007	0.008		<0.1	4	50	200
Chloride*	5	4		24	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	20	4		36	1000	20000	50000
TDS	230	260		1470	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	10.3	6.4		40	500	800	1000
Leach Test Information							
pH *	8.1	7.9					
EC*	207	104					
Sample Mass (kg)	0.199						
Dry Matter (%)	88						
Moisture (%)	15						
Stage 1							
Volume Eluate L2 (litres)	0.324						
Filtered Eluate VE1 (litres)	0.144						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42099				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	21/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM19						
Depth	4.20						
Solid Waste Analysis							
TOC (%)	3.6				3%	5%	6%
Loss on Ignition (%)**	1.7				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	5				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	7.7				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.028	0.007		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.009	<0.005		<0.1	4	50	200
Chloride*	5	4		26	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	27	4		57	1000	20000	50000
TDS	150	30		356	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	7.3	3.8		29	500	800	1000
Leach Test Information							
pH *	7.7	7.6					
EC*	157	43					
Sample Mass (kg)	0.196						
Dry Matter (%)	89						
Moisture (%)	13						
Stage 1							
Volume Eluate L2 (litres)	0.327						
Filtered Eluate VE1 (litres)	0.246						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42100				Landfill Waste Acceptance Critena Limits		
Sampling Date	21/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM20						
Depth	0.80						
Solid Waste Analysis							
TOC (%)	0.6				3%	5%	6%
Loss on Ignition (%)**	10.2				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	15				500	--	--
Total PAH (mg/kg)**	14.6				100	--	--
pH (Units)**	7.2				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.047	0.010		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.012	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.014	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.012	0.007		<0.1	4	50	200
Chloride*	4	3		14	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	61	7		95	1000	20000	50000
TDS	260	120		698	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	15.6	8.5		46	500	800	1000
Leach Test Information							
pH *	8.0	7.5					
EC*	346	81					
Sample Mass (kg)	0.220						
Dry Matter (%)	79						
Moisture (%)	28						
Stage 1							
Volume Eluate L2 (litres)	0.300						
Filtered Eluate VE1 (litres)	0.208						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42101				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	21/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM22						
Depth	1.10						
Solid Waste Analysis							
TOC (%)	1.8				3%	5%	6%
Loss on Ignition (%)**	3.5				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	6				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	7.2				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.013	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.007	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	3	4		21	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	9	2		19	1000	20000	50000
TDS	240	140		899	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	18.9	7.1		53	500	800	1000
Leach Test Information							
pH *	8.2	7.7					
EC*	247	76					
Sample Mass (kg)	0.201						
Dry Matter (%)	87						
Moisture (%)	16						
Stage 1							
Volume Eluate L2 (litres)	0.321						
Filtered Eluate VE1 (litres)	0.196						

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Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42102				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	21/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM22						
Depth	3.10						
Solid Waste Analysis							
TOC (%)	1.7				3%	5%	6%
Loss on Ignition (%)**	0.8				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	2				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	8.3				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.017	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	<0.005	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.013	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	0.006	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.009	<0.005		<0.1	4	50	200
Chloride*	3	3		26	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	64	4		135	1000	20000	50000
TDS	230	160		1516	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	7.3	5.2		49	500	800	1000
Leach Test Information							
pH *	7.9	8.0					
EC*	234	78					
Sample Mass (kg)	0.180						
Dry Matter (%)	97						
Moisture (%)	3						
Stage 1							
Volume Eluate L2 (litres)	0.345						
Filtered Eluate VE1 (litres)	0.292						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

*= UKAS accredited

** - MCERTS accredited test

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2683 2683

THE ENVIRONMENTAL LABORATORY LTD

Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42103				Landfill Waste Acceptance Critena Limits		
Sampling Date	21/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM23						
Depth	1.10						
Solid Waste Analysis							
TOC (%)	1.6				3%	5%	6%
Loss on Ignition (%)**	3.6				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	<0.01				1	--	--
Mineral Oil (mg/kg)**	2				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	7.3				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.014	<0.005		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.008	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.005	<0.005		<0.1	4	50	200
Chloride*	4	4		22	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	15	3		28	1000	20000	50000
TDS	300	110		772	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	18.7	8.6		56	500	800	1000
Leach Test Information							
pH *	7.7	7.4					
EC*	197	56					
Sample Mass (kg)	0.203						
Dry Matter (%)	86						
Moisture (%)	18						
Stage 1							
Volume Eluate L2 (litres)	0.319						
Filtered Eluate VE1 (litres)	0.166						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
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THE ENVIRONMENTAL LABORATORY LTD

Waste Acceptance Criteria **ANALYTICAL *RESULTS***							
Report No:	ANALYTICAL REPORT No. AR39548						
					CLIENT:	CC Geotechnical Limited	
Project Name:	Location: Wast Arc Wrexham Soil Mounds						
Lab Reference	42104				Landfill Waste Acceptance Critena		
					Limits		
Sampling Date	21/06/12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TPM23						
Depth	2.45						
Solid Waste Analysis							
TOC (%)	0.8				3%	5%	6%
Loss on Ignition (%)**	3.4				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)	<0.01				1	--	--
Mineral Oil (mg/kg)**	2				500	--	--
Total PAH (mg/kg)**	<0.5				100	--	--
pH (Units)**	7.5				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
					using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	0.006	<0.005		<0.1	0.5	2	25
Barium*	0.039	0.008		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.014	<0.005		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	<0.005	<0.005		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	<0.005		<0.1	0.5	10	50
Antimony	<0.005	<0.005		<0.01	0.06	0.7	5
Selenium*	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	<0.005	<0.005		<0.1	4	50	200
Chloride*	6	5		27	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	47	6		80	1000	20000	50000
TDS	590	430		2425	4000	60000	100000
Phenol Index	<0.5	<0.5			1	-	-
DOC	37.0	8.2		77	500	800	1000
Leach Test Information							
pH *	7.9	7.9					
EC*	572	158					
Sample Mass (kg)	0.207						
Dry Matter (%)	84						
Moisture (%)	20						
Stage 1							
Volume Eluate L2 (litres)	0.315						
Filtered Eluate VE1 (litres)	0.208						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
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□□□ **T**□□□□□	WAST - Western Gateway Site	□□□ **N**□□ □□□□	11-48141
C□□□□□□ □□□□□□□□□	40822	□□□ □□□ **N**□□ □□□□	321837
□□□ □□□ **ID**□	TP14 / 1.60	**D**□□□ □ □□□□□□□□□	12/04/2011

T□□□□ □□□□□ **O**□ □ □□□□		
D□□□□□ □□□□□ □□□ **M**□□□□□ □□□□□□□□□	**U**□□□	□□□□□
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

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I□□□□□ □□□□	□N□H□	H□□□□□□□□ □ □□□□
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

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D□□□□□ □□□□□ □□□ **M**□□□□□ □□□□□□□□□	**C**□□□ □□ **E**□□□□□ □□□□		□□ □□□□□□□□□□□ □ □□□□	
	□□□	□□□	□□□	□□□□
2326 Arsenic as As	1	1	0.002	0.010
042 Barium as Ba*	21	9	0.042	0.11
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	3	<2	0.006	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	<1	<1	<0.002	<0.01
055 Chloride as Cl	1700	410	<20	<100
055 Fluoride as F	310	<100	0.62	0.40
055 Sulphate as SO4	10000	1600	20	<100
035 Total Dissolved Solids *	100000	37000	200	451
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	7200	3600	14	<50
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.114			
Stage 1				
Volume of Leachant L2	0.203			
Volume of Eluate VE1	0.147			
Stage 2				
Volume of Leachant L8	0.916			
Volume of Eluate VE2	0.845			

□ □C □□□ □□□□□□□□ limit values for LS10 Leachate		
I□□□□□ □□□□	□N□H□	H□□□□□□□□ □ □□□□
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

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□□□ **T**□□□□□	WAST - Western Gateway Site	□□□ **N**□□ □□□□	11-48141
C□□□□□□ □□□□□□□□□	40822	□□□ □□□ **N**□□ □□□□	321839
□□□ □□□ **ID**□	TP15 / 1.00	**D**□□□ □ □□□□□□□□□	12/04/2011

T□□□□ □□□□□ **O**□ □ □□□□		
D□□□□□ □□□□□ □□□ **M**□□□□□ □□□□□□□□□	**U**□□□	□□□□□
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

□ □C □□□ □□□□□□□		
I□□□□□ □□□□	□N□H□	H□□□□□□□□ □ □□□□
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

T□□□□ □□□□□ **O**□ □□□□□□□□				
D□□□□□ □□□□□ □□□ **M**□□□□□ □□□□□□□□□	**C**□□□ □□ **E**□□□□□ □□□□		□□ □□□□□□□□□□□ □ □□□□	
	□□□	□□□	□□□	□□□□
2326 Arsenic as As	<1	<1	<0.002	<0.01
042 Barium as Ba*	2	10	<0.02	<0.1
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	<2	<2	<0.004	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	<1	4	<0.002	0.035
055 Chloride as Cl	1500	480	<20	<100
055 Fluoride as F	10	<100	0.020	<0.1
055 Sulphate as SO4	1400	990	<20	<100
035 Total Dissolved Solids *	19000	<5	38	<50
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	8500	3900	17	<50
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.112			
Stage 1				
Volume of Leachant L2	0.195			
Volume of Eluate VE1	0.153			
Stage 2				
Volume of Leachant L8	0.892			
Volume of Eluate VE2	0.810			

□ □C □□□ □□□□□□□ limit values for LS10 Leachate		
I□□□□□ □□□□	□N□H□	H□□□□□□□□ □ □□□□
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

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□□□ **T**□□□□□	WAST - Western Gateway Site	□□□ **N**□□ □□□□	11-48141
C□□□□□□ □□□□□□□□□	40822	□□□ □□□ **N**□□ □□□□	321841
□□□ □□□ **ID**□	TP17 / 2.00	**D**□□□ □ □□□□□□□□□	12/04/2011

T□□□□ □□□□□□ **O**□ □ □□□□		
D□□□□□ □□□□□ □□□ **M**□□□□□ □□□□□□□□□	**U**□□□	□□□□□□
002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

□ □C □□□ □□□□□□□□		
I□□□□□ □□□□	□N□H□	H□□□□□□□□□ □ □□□□
3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

T□□□□ □□□□□□ **O**□ □□□□□□□□□				
D□□□□□ □□□□□ □□□ **M**□□□□□ □□□□□□□□□	**C**□□□ □□ **E**□□□□□ □□□□		□□ □□□□□□□□□□□□ □ □□□□	
	□□□	□□□	□□□	□□□□
2326 Arsenic as As	<1	<1	<0.002	<0.01
042 Barium as Ba*	120	10	0.24	0.23
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	5	<2	0.010	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	4	<1	0.008	<0.01
055 Chloride as Cl	3600	730	<20	<100
055 Fluoride as F	390	290	0.78	3.0
055 Sulphate as SO4	72000	8200	144	158
035 Total Dissolved Solids *	230000	37000	460	601
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	7500	3600	15	<50
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.113			
Stage 1				
Volume of Leachant L2	0.200			
Volume of Eluate VE1	00136			
Stage 2				
Volume of Leachant L8	0.908			
Volume of Eluate VE2	0.850			

□ □C □□□ □□□□□□□□ limit values for LS10 Leachate		
I□□□□□ □□□□	□N□H□	H□□□□□□□□□ □ □□□□
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

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□□□ □□□ **ID**□	TP29 / 0.50	**D**□□□ □ □□□□□□□□□	12/04/2011

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002 Total Organic Carbon	%	
003 Loss On Ignition	%	
062 BTEX	mg/kg	
052 PCB's (7 congeners)	mg/kg	
051 TPH (C10 - C40)	mg/kg	
050 PAH's	mg/kg	
008 pH	pH Units	
073 Acid Neutralisation Capacity (pH4)*	mol/kg	
073 Acid Neutralisation Capacity (pH7)*	mol/kg	

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3	5	6
n/a	n/a	10
6	n/a	n/a
1	n/a	n/a
500	n/a	n/a
100	n/a	n/a
n/a	>6	n/a
n/a	TBE	TBE
n/a	TBE	TBE

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2326 Arsenic as As	<1	<1	<0.002	<0.01
042 Barium as Ba*	26	9	0.052	0.11
042 Cadmium as Cd	<2	<2	<0.004	<0.02
042 Chromium as Cr	<5	<5	<0.02	<0.1
042 Copper as Cu	<2	<2	<0.004	<0.02
081 Mercury as Hg	<0.05	<0.05	<0.0004	<0.002
042 Molybdenum as Mo*	<10	<10	<0.02	<0.1
042 Nickel as Ni	<10	<10	<0.02	<0.1
042 Lead as Pb	<4	<4	<0.01	<0.05
2328 Antimony as Sb	<1	<1	<0.01	<0.05
017 Selenium as Se	<3	<3	<0.006	<0.03
042 Zinc as Zn	<1	1	<0.002	<0.01
055 Chloride as Cl	2100	60	<20	<100
055 Fluoride as F	230	230	0.46	2.3
055 Sulphate as SO4	5800	4300	<20	<100
035 Total Dissolved Solids *	80000	21000	160	294
067 Phenol Index	<100	<100	<0.2	<1.0
033 Dissolved Organic Carbon*	4800	<2000	<10	<50
Additional Information				
008 pH				
009 Conductivity uS/cm				
Temperature*				
Mass of Sample Kg	0.140			
Mass of dry Sample Kg	0.116			
Stage 1				
Volume of Leachant L2	0.208			
Volume of Eluate VE1	0.165			
Stage 2				
Volume of Leachant L8	0.929			
Volume of Eluate VE2	0.870			

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0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15,000	25,000
10	150	500
1000	20,000	50,000
4000	60,000	100,000
1	n/a	n/a
500	800	1000

TBE = To Be Evaluated

SNRHW = Stable Non-Reactive Hazardous Waste

Disclaimer: The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.

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Created by: Dymock, Lisa
Created date: 06/09/2012 13:11

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#	Sample name	Depth	Classification result	Hazardous properties
1	TPM01 1.9		Non Hazardous	
2	TPM02 4.2		Non Hazardous	
3	TPM03 2.5		Non Hazardous	
4	TPM04 1		Non Hazardous	
5	TPM05 3		Non Hazardous	
6	BH01 0.5		Potentially Hazardous	H12
7	TP14 1		Non Hazardous	
8	TP15 0.5		Non Hazardous	
9	TP28 0.5		Non Hazardous	
10	TP28 1		Non Hazardous	
11	TP28 3		Non Hazardous	
12	TPM06 1		Non Hazardous	
13	TPM07 2.5		Non Hazardous	
14	TPM08 1		Non Hazardous	
15	TPM08 4.4		Non Hazardous	
16	TPM09 2		Non Hazardous	
17	TPM10 1		Non Hazardous	
18	TPM10 4		Non Hazardous	
19	TPM11 1.1		Non Hazardous	
20	TPM11 2		Non Hazardous	
21	TPM12 4.5		Non Hazardous	
22	TPM13 1		Non Hazardous	
23	TPM13 4		Non Hazardous	
24	TPM14 1.4		Non Hazardous	
25	TPM14 3		Non Hazardous	
26	TPM15 2.2		Non Hazardous	
27	TPM16 0.2		Non Hazardous	
28	TPM16 2		Non Hazardous	
29	TPM17 1.2		Non Hazardous	
30	TP16 0.5		Non Hazardous	
31	TP17 1		Potentially Hazardous	H12
32	TP27 0.5		Non Hazardous	
33	TP27 1		Non Hazardous	
34	TP27 3		Non Hazardous	
35	TPM18 1.3		Non Hazardous	
36	TPM19 1.15		Non Hazardous	
37	TPM19 4.2		Non Hazardous	
38	TPM20 0.8		Non Hazardous	
39	TP29 0.5		Non Hazardous	
40	TPM22 1.1		Non Hazardous	

#	Sample name	Depth	Classification result	Hazardous properties
41	TPM22 3.1		Non Hazardous	
42	TPM23 1.1		Non Hazardous	
43	TPM23 2.45		Non Hazardous	
44	TPM24 0.6		Non Hazardous	
45	TPM24 1.4		Non Hazardous	

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in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0081%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00030%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.8 mg/kg, converted to compound conc.:10.30 mg/kg or 0.0010%)
Cadmium sulphide: (Cation conc. entered: 1 mg/kg, converted to compound conc.:1.29 mg/kg or 0.00013%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 52.1 mg/kg, converted to compound conc.:81.27 mg/kg or 0.0081%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:18.95 mg/kg or 0.0019%)
Copper (I) oxide: (Cation conc. entered: 13.9 mg/kg, converted to compound conc.:15.65 mg/kg or 0.0016%)
Zinc chromate: (Cation conc. entered: 47.3 mg/kg, converted to compound conc.:131.22 mg/kg or 0.013%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 2 mg/kg, converted to compound conc.:3.00 mg/kg or 0.00030%)

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.9 pH or 7.90 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 5.3 mg/kg or 0.00053%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0089%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00018%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 9.1 mg/kg, converted to compound conc.:12.01 mg/kg or 0.0012%)
Cadmium sulphide: (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.03 mg/kg or 0.00010%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 57.3 mg/kg, converted to compound conc.:89.38 mg/kg or 0.0089%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 18.9 mg/kg, converted to compound conc.:29.85 mg/kg or 0.0030%)
Copper (I) oxide: (Cation conc. entered: 19.2 mg/kg, converted to compound conc.:21.62 mg/kg or 0.0022%)
Zinc chromate: (Cation conc. entered: 69.3 mg/kg, converted to compound conc.:192.25 mg/kg or 0.019%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:1.80 mg/kg or 0.00018%)

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.9 pH or 7.90 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.7 mg/kg or 0.000070%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 1.5 mg/kg or 0.00015%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0075%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00010%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 8.6 mg/kg, converted to compound conc.:11.35 mg/kg or 0.0011%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 48.3 mg/kg, converted to compound conc.:75.34 mg/kg or 0.0075%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 14.7 mg/kg, converted to compound conc.:23.22 mg/kg or 0.0023%)
Copper (I) oxide: (Cation conc. entered: 16.3 mg/kg, converted to compound conc.:18.35 mg/kg or 0.0018%)
Zinc chromate: (Cation conc. entered: 59.3 mg/kg, converted to compound conc.:164.51 mg/kg or 0.016%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:1.05 mg/kg or 0.00010%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 2.1 mg/kg or 0.00021%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0038%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: <5 mg/kg, converted to compound conc.:<6.60 mg/kg or <0.00066%)
IGNORED Because: "<LOD"
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 24.1 mg/kg, converted to compound conc.:37.59 mg/kg or 0.0038%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 8.2 mg/kg, converted to compound conc.:12.95 mg/kg or 0.0013%)
Copper (I) oxide: (Cation conc. entered: 9.5 mg/kg, converted to compound conc.:10.70 mg/kg or 0.0011%)
Zinc chromate: (Cation conc. entered: 26.1 mg/kg, converted to compound conc.:72.41 mg/kg or 0.0072%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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N□□□ □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

N□□□ □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

N□□□ E □T□□□ □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Name:
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Date:
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Sample Name:
T□M□□ □
Site:

Project:

Sample Depth:
□ □
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

H□□□□□ □□□□□□□□

None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0042%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.2 mg/kg, converted to compound conc.:6.87 mg/kg or 0.00069%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%) IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%) IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 27 mg/kg, converted to compound conc.:42.12 mg/kg or 0.0042%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:20.53 mg/kg or 0.0021%)
Copper (I) oxide: (Cation conc. entered: 11.2 mg/kg, converted to compound conc.:12.61 mg/kg or 0.0013%)
Zinc chromate: (Cation conc. entered: 37.9 mg/kg, converted to compound conc.:105.14 mg/kg or 0.011%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"

N□□□ □

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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N□□□ □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

N□□□ □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

N□□□ E □T□□□ □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

C

Classified as or
in the European Waste Catalogue 2002

C

Name:
Date:
Telephone:

Company:

Sample Details

Sample Name:
Site:
Project:
Sample Depth:
Wet Weight Moisture Content:
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

H

H "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

"Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000020%)

"Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

"Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0059%)

D (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6 mg/kg, converted to compound conc.:7.92 mg/kg or 0.00079%)
Cadmium sulphide: (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.64 mg/kg or 0.000064%)
Lead chromate: (Cation conc. entered: 38 mg/kg, converted to compound conc.:59.27 mg/kg or 0.0059%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"

Nickel dihydroxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:18.95 mg/kg or 0.0019%)
Copper (I) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:12.38 mg/kg or 0.0012%)
Zinc chromate: (Cation conc. entered: 43 mg/kg, converted to compound conc.:119.29 mg/kg or 0.012%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.7 pH or 8.70 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.20 mg/kg or 0.000020%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 6.2 mg/kg or 0.00062%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

C□□□□□□□□□□ □

from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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N□□□ □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

N□□□ □
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Name:
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Date:
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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

H□□□□□ □□□□□□□□

None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0042%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.5 mg/kg, converted to compound conc.:7.26 mg/kg or 0.00073%)
Cadmium sulphide: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.26 mg/kg or 0.000026%)
Lead chromate: (Cation conc. entered: 27 mg/kg, converted to compound conc.:42.12 mg/kg or 0.0042%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 8 mg/kg, converted to compound conc.:12.64 mg/kg or 0.0013%)
Copper (I) oxide: (Cation conc. entered: 8 mg/kg, converted to compound conc.:9.01 mg/kg or 0.00090%)
Zinc chromate: (Cation conc. entered: 27 mg/kg, converted to compound conc.:74.90 mg/kg or 0.0075%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.3 pH or 8.30 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 6.2 mg/kg or 0.00062%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.5 mg/kg or 0.00045%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0036%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 4.1 mg/kg, converted to compound conc.:5.41 mg/kg or 0.00054%)
Cadmium sulphide: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.26 mg/kg or 0.000026%)
Lead chromate: (Cation conc. entered: 23 mg/kg, converted to compound conc.:35.88 mg/kg or 0.0036%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 8 mg/kg, converted to compound conc.:12.64 mg/kg or 0.0013%)
Copper (I) oxide: (Cation conc. entered: 8 mg/kg, converted to compound conc.:9.01 mg/kg or 0.00090%)
Zinc chromate: (Cation conc. entered: 23 mg/kg, converted to compound conc.:63.81 mg/kg or 0.0064%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 6.2 mg/kg or 0.00062%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

[illegible]

N[illegible]
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

N[illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

N[illegible] E [illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

[illegible]

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0039%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 4.8 mg/kg, converted to compound conc.:6.34 mg/kg or 0.00063%)
Cadmium sulphide: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.26 mg/kg or 0.000026%)
Lead chromate: (Cation conc. entered: 25 mg/kg, converted to compound conc.:39.00 mg/kg or 0.0039%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 9 mg/kg, converted to compound conc.:14.22 mg/kg or 0.0014%)
Copper (I) oxide: (Cation conc. entered: 7 mg/kg, converted to compound conc.:7.88 mg/kg or 0.00079%)
Zinc chromate: (Cation conc. entered: 27 mg/kg, converted to compound conc.:74.90 mg/kg or 0.0075%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 6.2 mg/kg or 0.00062%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0037%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000075%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 4.6 mg/kg, converted to compound conc.:6.07 mg/kg or 0.00061%)
Cadmium sulphide: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.26 mg/kg or 0.000026%)
Lead chromate: (Cation conc. entered: 24 mg/kg, converted to compound conc.:37.44 mg/kg or 0.0037%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 10 mg/kg, converted to compound conc.:15.79 mg/kg or 0.0016%)
Copper (I) oxide: (Cation conc. entered: 8 mg/kg, converted to compound conc.:9.01 mg/kg or 0.00090%)
Zinc chromate: (Cation conc. entered: 28 mg/kg, converted to compound conc.:77.68 mg/kg or 0.0078%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.75 mg/kg or 0.000075%)
pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)

Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 6.2 mg/kg or 0.00062%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

N[illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

[illegible]

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0050%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 4.9 mg/kg, converted to compound conc.:6.47 mg/kg or 0.00065%)
Cadmium sulphide: (Cation conc. entered: 0.3 mg/kg, converted to compound conc.:0.39 mg/kg or 0.000039%)
Lead chromate: (Cation conc. entered: 32 mg/kg, converted to compound conc.:49.91 mg/kg or 0.0050%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 9 mg/kg, converted to compound conc.:14.22 mg/kg or 0.0014%)
Copper (I) oxide: (Cation conc. entered: 8 mg/kg, converted to compound conc.:9.01 mg/kg or 0.00090%)
Zinc chromate: (Cation conc. entered: 33 mg/kg, converted to compound conc.:91.55 mg/kg or 0.0092%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.015%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00017%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 15.7 mg/kg, converted to compound conc.:20.73 mg/kg or 0.0021%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 99.2 mg/kg, converted to compound conc.:154.73 mg/kg or 0.015%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 39.1 mg/kg, converted to compound conc.:61.76 mg/kg or 0.0062%)
Copper (I) oxide: (Cation conc. entered: 31.5 mg/kg, converted to compound conc.:35.47 mg/kg or 0.0035%)
Zinc chromate: (Cation conc. entered: 83.5 mg/kg, converted to compound conc.:231.64 mg/kg or 0.023%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.65 mg/kg or 0.00017%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.4 mg/kg or 0.00044%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0045%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000075%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.6 mg/kg, converted to compound conc.:8.71 mg/kg or 0.00087%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 28.8 mg/kg, converted to compound conc.:44.92 mg/kg or 0.0045%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 14.1 mg/kg, converted to compound conc.:22.27 mg/kg or 0.0022%)
Copper (I) oxide: (Cation conc. entered: 18.3 mg/kg, converted to compound conc.:20.60 mg/kg or 0.0021%)
Zinc chromate: (Cation conc. entered: 45.6 mg/kg, converted to compound conc.:126.50 mg/kg or 0.013%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.75 mg/kg or 0.000075%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 3 mg/kg or 0.00030%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0086%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000090%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 10.1 mg/kg, converted to compound conc.:13.34 mg/kg or 0.0013%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 55 mg/kg, converted to compound conc.:85.79 mg/kg or 0.0086%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 20.1 mg/kg, converted to compound conc.:31.75 mg/kg or 0.0032%)
Copper (I) oxide: (Cation conc. entered: 20.3 mg/kg, converted to compound conc.:22.86 mg/kg or 0.0023%)
Zinc chromate: (Cation conc. entered: 60.6 mg/kg, converted to compound conc.:168.11 mg/kg or 0.017%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 1.8 mg/kg or 0.00018%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 58.2 mg/kg or 0.0058%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0038%)

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Arsenic trioxide: (Cation conc. entered: 6.2 mg/kg, converted to compound conc.:8.19 mg/kg or 0.00082%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%) IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%) IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 24.6 mg/kg, converted to compound conc.:38.37 mg/kg or 0.0038%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 13.7 mg/kg, converted to compound conc.:21.64 mg/kg or 0.0022%)
Copper (I) oxide: (Cation conc. entered: 13.8 mg/kg, converted to compound conc.:15.54 mg/kg or 0.0016%)
Zinc chromate: (Cation conc. entered: 39.8 mg/kg, converted to compound conc.:110.41 mg/kg or 0.011%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
T□M□□ □
Site:

Project:

Sample Depth:
□ □
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0048%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.6 mg/kg, converted to compound conc.:7.39 mg/kg or 0.00074%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%) IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%) IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 30.7 mg/kg, converted to compound conc.:47.89 mg/kg or 0.0048%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 11.9 mg/kg, converted to compound conc.:18.80 mg/kg or 0.0019%)
Copper (I) oxide: (Cation conc. entered: 12.4 mg/kg, converted to compound conc.:13.96 mg/kg or 0.0014%)
Zinc chromate: (Cation conc. entered: 37.6 mg/kg, converted to compound conc.:104.31 mg/kg or 0.010%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 9.1 mg/kg or 0.00091%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0046%)

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Arsenic trioxide: (Cation conc. entered: 6.8 mg/kg, converted to compound conc.:8.98 mg/kg or 0.00090%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%) IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%) IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 29.2 mg/kg, converted to compound conc.:45.55 mg/kg or 0.0046%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 16.9 mg/kg, converted to compound conc.:26.69 mg/kg or 0.0027%)
Copper (I) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:18.01 mg/kg or 0.0018%)
Zinc chromate: (Cation conc. entered: 50.9 mg/kg, converted to compound conc.:141.20 mg/kg or 0.014%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.2 mg/kg or 0.00042%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '...

salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.014%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00020%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 10.3 mg/kg, converted to compound conc.:13.60 mg/kg or 0.0014%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 90.9 mg/kg, converted to compound conc.:141.79 mg/kg or 0.014%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 20.1 mg/kg, converted to compound conc.:31.75 mg/kg or 0.0032%)
Copper (I) oxide: (Cation conc. entered: 25.9 mg/kg, converted to compound conc.:29.16 mg/kg or 0.0029%)
Zinc chromate: (Cation conc. entered: 96.5 mg/kg, converted to compound conc.:267.71 mg/kg or 0.027%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:1.95 mg/kg or 0.00020%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: 1.6 mg/kg or 0.00016%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 1.9 mg/kg or 0.00019%)
Benzo[b]fluoranthene: (Whole concentration entered as: 1.9 mg/kg or 0.00019%)
Benzo[ghi]perylene: (Whole concentration entered as: 1.6 mg/kg or 0.00016%)
Benzo[k]fluoranthene: (Whole concentration entered as: 1.9 mg/kg or 0.00019%)
Chrysene: (Whole concentration entered as: 2 mg/kg or 0.00020%)
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: 2.7 mg/kg or 0.00027%)
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: 1.7 mg/kg or 0.00017%)
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: 1.3 mg/kg or 0.00013%)
Pyrene: (Whole concentration entered as: 2.4 mg/kg or 0.00024%)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 9.9 mg/kg or 0.00099%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 188.4 mg/kg or 0.019%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Phenanthrene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0037%)

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Arsenic trioxide: (Cation conc. entered: 7.3 mg/kg, converted to compound conc.:9.64 mg/kg or 0.00096%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%) IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%) IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 24 mg/kg, converted to compound conc.:37.44 mg/kg or 0.0037%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 29.5 mg/kg, converted to compound conc.:46.60 mg/kg or 0.0047%)
Copper (I) oxide: (Cation conc. entered: 17.9 mg/kg, converted to compound conc.:20.15 mg/kg or 0.0020%)
Zinc chromate: (Cation conc. entered: 51.2 mg/kg, converted to compound conc.:142.04 mg/kg or 0.014%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 7.9 mg/kg or 0.00079%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '...

salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
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HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0041%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 12.1 mg/kg, converted to compound conc.:15.98 mg/kg or 0.0016%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%) IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%) IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 26 mg/kg, converted to compound conc.:40.56 mg/kg or 0.0041%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 13.3 mg/kg, converted to compound conc.:21.01 mg/kg or 0.0021%)
Copper (I) oxide: (Cation conc. entered: 16.1 mg/kg, converted to compound conc.:18.13 mg/kg or 0.0018%)
Zinc chromate: (Cation conc. entered: 38.8 mg/kg, converted to compound conc.:107.64 mg/kg or 0.011%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

N[illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

[illegible]

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.011%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00017%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 15.5 mg/kg, converted to compound conc.:20.47 mg/kg or 0.0020%)
Cadmium sulphide: (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.03 mg/kg or 0.00010%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 68.6 mg/kg, converted to compound conc.:107.00 mg/kg or 0.011%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 48.6 mg/kg, converted to compound conc.:76.76 mg/kg or 0.0077%)
Copper (I) oxide: (Cation conc. entered: 21.6 mg/kg, converted to compound conc.:24.32 mg/kg or 0.0024%)
Zinc chromate: (Cation conc. entered: 91.4 mg/kg, converted to compound conc.:253.56 mg/kg or 0.025%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.65 mg/kg or 0.00017%)

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.3 pH or 8.30 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

N[illegible]

[illegible] **C**[illegible]
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C[illegible]
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

N[illegible]
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

N□□□ E □T□□□ □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.021%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00027%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 15.5 mg/kg, converted to compound conc.:20.47 mg/kg or 0.0020%)
Cadmium sulphide: (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 134.2 mg/kg, converted to compound conc.:209.33 mg/kg or 0.021%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 123.3 mg/kg, converted to compound conc.:194.75 mg/kg or 0.019%)
Copper (I) oxide: (Cation conc. entered: 31.8 mg/kg, converted to compound conc.:35.80 mg/kg or 0.0036%)
Zinc chromate: (Cation conc. entered: 116.3 mg/kg, converted to compound conc.:322.63 mg/kg or 0.032%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.8 mg/kg, converted to compound conc.:2.70 mg/kg or 0.00027%)

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.4 mg/kg or 0.00044%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

N□□□ E □T□□□ □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0040%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: <5 mg/kg, converted to compound conc.:<6.60 mg/kg or <0.00066%)
IGNORED Because: "<LOD"
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 25.9 mg/kg, converted to compound conc.:40.40 mg/kg or 0.0040%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 10.7 mg/kg, converted to compound conc.:16.90 mg/kg or 0.0017%)
Copper (I) oxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:13.51 mg/kg or 0.0014%)
Zinc chromate: (Cation conc. entered: 31.6 mg/kg, converted to compound conc.:87.66 mg/kg or 0.0088%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.3 pH or 8.30 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 2.1 mg/kg or 0.00021%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

N□□□ □
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

[illegible]

N[illegible]
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

N[illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

N[illegible] E [illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

[illegible]

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0033%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: <5 mg/kg, converted to compound conc.:<6.60 mg/kg or <0.00066%)
IGNORED Because: "<LOD"
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 20.9 mg/kg, converted to compound conc.:32.60 mg/kg or 0.0033%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 9.7 mg/kg, converted to compound conc.:15.32 mg/kg or 0.0015%)
Copper (I) oxide: (Cation conc. entered: 10 mg/kg, converted to compound conc.:11.26 mg/kg or 0.0011%)
Zinc chromate: (Cation conc. entered: 36.1 mg/kg, converted to compound conc.:100.15 mg/kg or 0.010%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 1.7 mg/kg or 0.00017%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0044%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 8.1 mg/kg, converted to compound conc.:10.69 mg/kg or 0.0011%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%) IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%) IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 28.1 mg/kg, converted to compound conc.:43.83 mg/kg or 0.0044%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 31.9 mg/kg, converted to compound conc.:50.39 mg/kg or 0.0050%)
Copper (I) oxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:24.77 mg/kg or 0.0025%)
Zinc chromate: (Cation conc. entered: 59.5 mg/kg, converted to compound conc.:165.06 mg/kg or 0.017%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 1.4 mg/kg or 0.00014%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
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HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
□ □
Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0048%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: <5 mg/kg, converted to compound conc.:<6.60 mg/kg or <0.00066%)
IGNORED Because: "<LOD"
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 30.9 mg/kg, converted to compound conc.:48.20 mg/kg or 0.0048%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 11.1 mg/kg, converted to compound conc.:17.53 mg/kg or 0.0018%)
Copper (I) oxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:14.64 mg/kg or 0.0015%)
Zinc chromate: (Cation conc. entered: 35.1 mg/kg, converted to compound conc.:97.37 mg/kg or 0.0097%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Sample Name:
T□M□□ □□□
Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

H□□□□□ □□□□□□□□

None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0078%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00021%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.4 mg/kg, converted to compound conc.:9.77 mg/kg or 0.00098%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 49.8 mg/kg, converted to compound conc.:77.68 mg/kg or 0.0078%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 14.6 mg/kg, converted to compound conc.:23.06 mg/kg or 0.0023%)
Copper (I) oxide: (Cation conc. entered: 14.9 mg/kg, converted to compound conc.:16.78 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 46.6 mg/kg, converted to compound conc.:129.28 mg/kg or 0.013%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.4 mg/kg, converted to compound conc.:2.10 mg/kg or 0.00021%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 1.5 mg/kg or 0.00015%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0079%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00022%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.1 mg/kg, converted to compound conc.:9.37 mg/kg or 0.00094%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 50.9 mg/kg, converted to compound conc.:79.39 mg/kg or 0.0079%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:18.95 mg/kg or 0.0019%)
Copper (I) oxide: (Cation conc. entered: 14.5 mg/kg, converted to compound conc.:16.33 mg/kg or 0.0016%)
Zinc chromate: (Cation conc. entered: 42.9 mg/kg, converted to compound conc.:119.01 mg/kg or 0.012%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:2.25 mg/kg or 0.00022%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0045%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000075%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: <5 mg/kg, converted to compound conc.:<6.60 mg/kg or <0.00066%)
IGNORED Because: "<LOD"
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 29.1 mg/kg, converted to compound conc.:45.39 mg/kg or 0.0045%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 9.7 mg/kg, converted to compound conc.:15.32 mg/kg or 0.0015%)
Copper (I) oxide: (Cation conc. entered: 11.9 mg/kg, converted to compound conc.:13.40 mg/kg or 0.0013%)
Zinc chromate: (Cation conc. entered: 39 mg/kg, converted to compound conc.:108.19 mg/kg or 0.011%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.75 mg/kg or 0.000075%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8 pH or 8.00 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 1.3 mg/kg or 0.00013%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□
in the European Waste Catalogue 2002

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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0041%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.8 mg/kg, converted to compound conc.:8.98 mg/kg or 0.00090%)
Cadmium sulphide: (Cation conc. entered: 0.4 mg/kg, converted to compound conc.:0.51 mg/kg or 0.000051%)
Lead chromate: (Cation conc. entered: 26 mg/kg, converted to compound conc.:40.56 mg/kg or 0.0041%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:36.33 mg/kg or 0.0036%)
Copper (I) oxide: (Cation conc. entered: 17 mg/kg, converted to compound conc.:19.14 mg/kg or 0.0019%)
Zinc chromate: (Cation conc. entered: 51 mg/kg, converted to compound conc.:141.48 mg/kg or 0.014%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 6.2 mg/kg or 0.00062%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

[illegible]

N[illegible]
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

N[illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

N[illegible] E [illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

[illegible]

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Classified as □□ □□ □□ or □□ □□ □□ □
in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
□ □
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing dangerous substances)

H

H□□ "Waste which releases toxic or very toxic gases in contact with water, air or an acid."

Risk phrases hit:

□□ "Contact with acids liberates very toxic gas"

Because of determinand:

Cyanides (with the exception of complex cyanides): (0.000010%)

□ "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0092%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000015%)

D (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.3 mg/kg, converted to compound conc.:9.64 mg/kg or 0.00096%)
Cadmium sulphide: (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.77 mg/kg or 0.000077%)
Lead chromate: (Cation conc. entered: 59 mg/kg, converted to compound conc.:92.03 mg/kg or 0.0092%)
Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.14 mg/kg or 0.000014%)

Nickel dihydroxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:22.11 mg/kg or 0.0022%)
Copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.89 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 83 mg/kg, converted to compound conc.:230.25 mg/kg or 0.023%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.15 mg/kg or 0.000015%)
pH: (Whole concentration entered as: 8.3 pH or 8.30 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: 1.2 mg/kg or 0.00012%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 3.1 mg/kg or 0.00031%)
Benzo[b]fluoranthene: (Whole concentration entered as: 2.5 mg/kg or 0.00025%)
Benzo[ghi]perylene: (Whole concentration entered as: 1.9 mg/kg or 0.00019%)
Benzo[k]fluoranthene: (Whole concentration entered as: 1.1 mg/kg or 0.00011%)
Chrysene: (Whole concentration entered as: 1.3 mg/kg or 0.00013%)
Dibenz[a,h]anthracene: (Whole concentration entered as: 0.7 mg/kg or 0.000070%)
Fluoranthene: (Whole concentration entered as: 3.6 mg/kg or 0.00036%)
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: 2 mg/kg or 0.00020%)
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: 3.4 mg/kg or 0.00034%)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 15.4 mg/kg or 0.0015%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 280 mg/kg or 0.028%)

N[illegible]

[illegible] **C**[illegible]
from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C[illegible]
from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cyanides (with the exception of complex cyanides)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Cyanides (with the exception of complex cyanides)"
determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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in the European Waste Catalogue 2002

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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0059%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.5 mg/kg, converted to compound conc.:7.26 mg/kg or 0.00073%)
Cadmium sulphide: (Cation conc. entered: 0.3 mg/kg, converted to compound conc.:0.39 mg/kg or 0.000039%)
Lead chromate: (Cation conc. entered: 38 mg/kg, converted to compound conc.:59.27 mg/kg or 0.0059%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 10 mg/kg, converted to compound conc.:15.79 mg/kg or 0.0016%)
Copper (I) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:12.38 mg/kg or 0.0012%)
Zinc chromate: (Cation conc. entered: 37 mg/kg, converted to compound conc.:102.64 mg/kg or 0.010%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 6.2 mg/kg or 0.00062%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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in the European Waste Catalogue 2002

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Sample Name:
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Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0053%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.1 mg/kg, converted to compound conc.:6.73 mg/kg or 0.00067%)
Cadmium sulphide: (Cation conc. entered: 0.3 mg/kg, converted to compound conc.:0.39 mg/kg or 0.000039%)
Lead chromate: (Cation conc. entered: 34 mg/kg, converted to compound conc.:53.03 mg/kg or 0.0053%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 10 mg/kg, converted to compound conc.:15.79 mg/kg or 0.0016%)
Copper (I) oxide: (Cation conc. entered: 9 mg/kg, converted to compound conc.:10.13 mg/kg or 0.0010%)
Zinc chromate: (Cation conc. entered: 37 mg/kg, converted to compound conc.:102.64 mg/kg or 0.010%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.6 pH or 8.60 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 6.2 mg/kg or 0.00062%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0059%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.9 mg/kg, converted to compound conc.:7.79 mg/kg or 0.00078%)
Cadmium sulphide: (Cation conc. entered: 0.3 mg/kg, converted to compound conc.:0.39 mg/kg or 0.000039%)
Lead chromate: (Cation conc. entered: 38 mg/kg, converted to compound conc.:59.27 mg/kg or 0.0059%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 10 mg/kg, converted to compound conc.:15.79 mg/kg or 0.0016%)
Copper (I) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:12.38 mg/kg or 0.0012%)
Zinc chromate: (Cation conc. entered: 45 mg/kg, converted to compound conc.:124.84 mg/kg or 0.012%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.6 pH or 8.60 pH)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.031%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00022%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.5 mg/kg, converted to compound conc.:8.58 mg/kg or 0.00086%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 200.5 mg/kg, converted to compound conc.:312.74 mg/kg or 0.031%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 15.5 mg/kg, converted to compound conc.:24.48 mg/kg or 0.0024%)
Copper (I) oxide: (Cation conc. entered: 17.3 mg/kg, converted to compound conc.:19.48 mg/kg or 0.0019%)
Zinc chromate: (Cation conc. entered: 91.9 mg/kg, converted to compound conc.:254.94 mg/kg or 0.025%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:2.25 mg/kg or 0.00022%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: 0.5 mg/kg or 0.000050%)
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Chrysene: (Whole concentration entered as: 0.8 mg/kg or 0.000080%)
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: 0.7 mg/kg or 0.000070%)
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: 0.6 mg/kg or 0.000060%)

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.020%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00025%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 5.1 mg/kg, converted to compound conc.:6.73 mg/kg or 0.00067%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 128.5 mg/kg, converted to compound conc.:200.44 mg/kg or 0.020%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 26.9 mg/kg, converted to compound conc.:42.49 mg/kg or 0.0042%)
Copper (I) oxide: (Cation conc. entered: 25.6 mg/kg, converted to compound conc.:28.82 mg/kg or 0.0029%)
Zinc chromate: (Cation conc. entered: 94.6 mg/kg, converted to compound conc.:262.43 mg/kg or 0.026%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.7 mg/kg, converted to compound conc.:2.55 mg/kg or 0.00025%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.8 pH or 7.80 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.7 mg/kg or 0.000070%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 1.8 mg/kg or 0.00018%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

N□□□ E □T□□□ □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0085%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000090%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 7.9 mg/kg, converted to compound conc.:10.43 mg/kg or 0.0010%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 54.4 mg/kg, converted to compound conc.:84.85 mg/kg or 0.0085%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 17.6 mg/kg, converted to compound conc.:27.80 mg/kg or 0.0028%)
Copper (I) oxide: (Cation conc. entered: 11.1 mg/kg, converted to compound conc.:12.50 mg/kg or 0.0012%)
Zinc chromate: (Cation conc. entered: 38.6 mg/kg, converted to compound conc.:107.08 mg/kg or 0.011%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.7 pH or 7.70 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

N□□□ □

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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N[illegible]
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

N[illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

N[illegible] E [illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
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3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
T□M□□ □□□
Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.053%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00032%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 10.6 mg/kg, converted to compound conc.:14.00 mg/kg or 0.0014%)
Cadmium sulphide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.41 mg/kg or 0.00014%)
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 341.3 mg/kg, converted to compound conc.:532.36 mg/kg or 0.053%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 32.6 mg/kg, converted to compound conc.:51.49 mg/kg or 0.0051%)
Copper (I) oxide: (Cation conc. entered: 40.1 mg/kg, converted to compound conc.:45.15 mg/kg or 0.0045%)
Zinc chromate: (Cation conc. entered: 313.8 mg/kg, converted to compound conc.:870.53 mg/kg or 0.087%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 2.1 mg/kg, converted to compound conc.:3.15 mg/kg or 0.00032%)

Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.2 pH or 7.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: 1 mg/kg or 0.00010%)
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 1.2 mg/kg or 0.00012%)
Benzo[b]fluoranthene: (Whole concentration entered as: 1.2 mg/kg or 0.00012%)
Benzo[ghi]perylene: (Whole concentration entered as: 1 mg/kg or 0.00010%)
Benzo[k]fluoranthene: (Whole concentration entered as: 1.4 mg/kg or 0.00014%)
Chrysene: (Whole concentration entered as: 1.6 mg/kg or 0.00016%)
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: 1.6 mg/kg or 0.00016%)
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: 1.1 mg/kg or 0.00011%)
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: 1.4 mg/kg or 0.00014%)
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 1.8 mg/kg or 0.00018%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 13.7 mg/kg or 0.0014%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]anthracene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[k]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Chrysene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[b]fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Fluoranthene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Pyrene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Benzo[ghi]perylene"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinand:

Lead chromate: (0.0055%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.4 mg/kg, converted to compound conc.:8.45 mg/kg or 0.00085%)
Cadmium sulphide: (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.64 mg/kg or 0.000064%)
Lead chromate: (Cation conc. entered: 35 mg/kg, converted to compound conc.:54.59 mg/kg or 0.0055%)
Mercury dichloride: (Cation conc. entered: <0.05 mg/kg, converted to compound conc.:<0.068 mg/kg or <0.0000068%) IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:30.01 mg/kg or 0.0030%)
Copper (I) oxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:14.64 mg/kg or 0.0015%)
Zinc chromate: (Cation conc. entered: 45 mg/kg, converted to compound conc.:124.84 mg/kg or 0.012%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.75 mg/kg or <0.000075%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.5 pH or 8.50 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.10 mg/kg or <0.000010%) IGNORED Because: "<LOD"

Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 6.2 mg/kg or 0.00062%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.1 mg/kg or 0.000010%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.8 mg/kg or 0.00048%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"

Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Cadmium sulphide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

[illegible]

N[illegible]
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
determinand: "Lead chromate"

N[illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"

N[illegible] E [illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Cadmium sulphide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

[illegible]

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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in the European Waste Catalogue 2002

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Sample Name:
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Site:

Project:

Sample Depth:
□ □
Wet Weight Moisture Content:
□□
Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0088%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00012%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.5 mg/kg, converted to compound conc.:8.58 mg/kg or 0.00086%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 56.4 mg/kg, converted to compound conc.:87.97 mg/kg or 0.0088%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 14.3 mg/kg, converted to compound conc.:22.59 mg/kg or 0.0023%)
Copper (I) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:18.01 mg/kg or 0.0018%)
Zinc chromate: (Cation conc. entered: 68.5 mg/kg, converted to compound conc.:190.03 mg/kg or 0.019%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.20 mg/kg or 0.00012%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.2 pH or 7.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '...

salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Zinc chromate"
determinand: "Nickel dihydroxide"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0017%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00014%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: <5 mg/kg, converted to compound conc.:<6.60 mg/kg or <0.00066%)
IGNORED Because: "<LOD"
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 11.2 mg/kg, converted to compound conc.:17.47 mg/kg or 0.0017%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 8 mg/kg, converted to compound conc.:12.64 mg/kg or 0.0013%)
Copper (I) oxide: (Cation conc. entered: 33.2 mg/kg, converted to compound conc.:37.38 mg/kg or 0.0037%)
Zinc chromate: (Cation conc. entered: 9.9 mg/kg, converted to compound conc.:27.46 mg/kg or 0.0027%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.9 mg/kg, converted to compound conc.:1.35 mg/kg or 0.00014%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.3 pH or 8.30 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.6 mg/kg or 0.000060%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 2.2 mg/kg or 0.00022%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

N□□□ E □T□□□ □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Zinc chromate"
determinand: "Nickel dihydroxide"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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Comments:

EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0073%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00012%)

D□□□□□ □□□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.4 mg/kg, converted to compound conc.:8.45 mg/kg or 0.00085%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 47.1 mg/kg, converted to compound conc.:73.47 mg/kg or 0.0073%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:20.53 mg/kg or 0.0021%)
Copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.89 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 13.3 mg/kg, converted to compound conc.:36.90 mg/kg or 0.0037%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:1.20 mg/kg or 0.00012%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.3 pH or 7.30 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.7 mg/kg or 0.000070%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 1.7 mg/kg or 0.00017%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"
determinand: "Arsenic trioxide"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0071%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000090%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.2 mg/kg, converted to compound conc.:8.19 mg/kg or 0.00082%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 45.3 mg/kg, converted to compound conc.:70.66 mg/kg or 0.0071%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:22.11 mg/kg or 0.0022%)
Copper (I) oxide: (Cation conc. entered: 14.8 mg/kg, converted to compound conc.:16.66 mg/kg or 0.0017%)
Zinc chromate: (Cation conc. entered: 59.8 mg/kg, converted to compound conc.:165.89 mg/kg or 0.017%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.90 mg/kg or 0.000090%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 7.5 pH or 7.50 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 0.7 mg/kg or 0.000070%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 1.7 mg/kg or 0.00017%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

N□□□ E □T□□□ □□□□
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Nickel dihydroxide"
determinand: "Arsenic trioxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
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HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Lead chromate: (0.0057%)
Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00022%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 10.7 mg/kg, converted to compound conc.:14.13 mg/kg or 0.0014%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 36.4 mg/kg, converted to compound conc.:56.78 mg/kg or 0.0057%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 21.7 mg/kg, converted to compound conc.:34.28 mg/kg or 0.0034%)
Copper (I) oxide: (Cation conc. entered: 19.9 mg/kg, converted to compound conc.:22.41 mg/kg or 0.0022%)
Zinc chromate: (Cation conc. entered: 67.6 mg/kg, converted to compound conc.:187.53 mg/kg or 0.019%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:2.25 mg/kg or 0.00022%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.3 pH or 8.30 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 1 mg/kg or 0.00010%)
Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.2 mg/kg or 0.000020%)
Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 4.9 mg/kg or 0.00049%)
Benzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Toluene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Ethylbenzene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"
Xylene: (Whole concentration entered as: <10 mg/kg or <0.0010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Lead chromate"
Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Zinc chromate"
determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

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from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"
determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"

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Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

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Sample Name:
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Site:

Project:

Sample Depth:
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Wet Weight Moisture Content:
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EWC 2002 code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Comments:

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None identified

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Risk phrases hit:

□□□ "Danger of cumulative effects"

Because of determinands:

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.00014%)
Lead chromate: (0.061%)

D□□□□□ □□□□□ (Wet Weight Moisture Content:0%)

Arsenic trioxide: (Cation conc. entered: 6.4 mg/kg, converted to compound conc.:8.45 mg/kg or 0.00085%)
Cadmium sulphide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.64 mg/kg or <0.000064%)
IGNORED Because: "<LOD"
Chromium(VI) oxide: (Cation conc. entered: <2 mg/kg, converted to compound conc.:<3.85 mg/kg or <0.00038%)
IGNORED Because: "<LOD"
Lead chromate: (Cation conc. entered: 391.4 mg/kg, converted to compound conc.:610.51 mg/kg or 0.061%)
Mercury dichloride: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.68 mg/kg or <0.000068%)
IGNORED Because: "<LOD"
Nickel dihydroxide: (Cation conc. entered: 15.5 mg/kg, converted to compound conc.:24.48 mg/kg or 0.0024%)
Copper (I) oxide: (Cation conc. entered: 11.5 mg/kg, converted to compound conc.:12.95 mg/kg or 0.0013%)
Zinc chromate: (Cation conc. entered: 42.8 mg/kg, converted to compound conc.:118.73 mg/kg or 0.012%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.9 mg/kg, converted to compound conc.:1.35 mg/kg or 0.00014%)
Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<6.72 mg/kg or <0.00067%) IGNORED Because: "<LOD"
pH: (Whole concentration entered as: 8.2 pH or 8.20 pH)
Cyanides (with the exception of complex cyanides): (Cation conc. entered: <1 mg/kg, converted to compound conc.:<1.00 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Phenol: (Whole concentration entered as: <1 mg/kg or <0.00010%) IGNORED Because: "<LOD"
Acenaphthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Acenaphthylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[b]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[ghi]perylene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Benzo[k]fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Chrysene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Dibenz[a,h]anthracene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluoranthene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Fluorene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Indeno[123-cd]pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Naphthalene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Phenanthrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"
Pyrene: (Whole concentration entered as: <0.1 mg/kg or <0.000010%) IGNORED Because: "<LOD"

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from section: Table 3.1 in the document: "WM2 - Hazardous Waste Technical Guidance"
"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "Additional on R33" for determinand: "Lead chromate"

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from section: C14.5 in the document: "WM2 - Hazardous Waste Technical Guidance"
"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Nickel dihydroxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Copper (I) oxide"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Zinc chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Arsenic trioxide"

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from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead chromate"
Test: "H14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "Lead chromate"

[illegible]

N[illegible]
from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"
"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Lead chromate"

N[illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
determinand: "Zinc chromate"

N[illegible] E [illegible]
from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"
"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Nickel dihydroxide"
determinand: "Zinc chromate"
determinand: "Arsenic trioxide"

[illegible]

Classification utilises the following:
CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008
1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26 September 2009; binding date 1 Dec 2010
2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30 March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures
3rd ATP - 3rd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 31 July 2012; binding date 1 Dec 2013

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08
HazWasteOnline Engine Version: 1.0.2067.4797 (05 Sep 2012)
HazWasteOnline Database: 1.0.2067.4797 (05 Sep 2012)

Appendix F

Preliminary Ground Gas Assessment

Memorandum

To	David Lynesmith	Date	5 April 2012
Copies	Sergio Solera	Reference number	213833
From	Agnieszka Lopez-Parodi 26614/ Cardiff	File reference	4-10
Subject	WAST ARC - Preliminary ground gas assessment		

Introduction

The aim of this preliminary ground gas risk assessment is to provide an indication on risk to the proposed development from ground gas.

During the 2011 ground investigation, one round of ground gas monitoring was undertaken across the area of proposed development. Further monitoring will be incorporated in the forthcoming supplementary investigations.

The factual information of the 2011 investigations have been presented in Ian Farmer Associates factual report prepared for BAM Construction Limited (WAST – Western Gateway Site, Wrexham, Factual report on ground investigation, Ian Farmer Associates, contract: w11/40822, June 2011).

Methodology

The potential risk to the proposed development from the ground gas has been assessed in accordance with the CIRIA 665 guidance (Reference [8]).

The proposed development falls within the Situation A, which considers all development types except for those in Situation B i.e. low rise housing with a ventilated underfloor void.

For Situation A developments, the assessment method uses both gas concentrations and borehole flow rates to define characteristic situation for a site based on the gas screening value (GSV) for carbon dioxide and methane.

The GSV is derived taking into account the maximum borehole flow rate and the maximum gas concentration. The worst case value is adopted, which allows determination of the characteristic situation for the site. The higher the classification the greater risk posed by the presence of gas and the greater protective measures are required.

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Table 5 and **Table 6**

Memorandum

2011 ground investigation results

Ground gas monitoring was undertaken in 14No installations, as detailed in Table 1 below. Due to the shallow depth of encountered made ground, ground gas monitoring was undertaken mainly within the alluvial deposits between 10-20 m bgl (77.6 and 87mOD) within deep installations and between 1-6.5 m bgl (82.7 and 91.7m OD) in shallow installations.

Methane

During the 2011 ground gas monitoring methane was detected in all installations at between 0.1 and 0.9 %v/v with the maximum concentration measured in WS16.

Carbon Dioxide

The 2011 monitoring results show carbon dioxide concentrations between 0.0% and 4.9% v/v across the site.

The measured concentrations of both carbon dioxide and methane are considered to be within the typical range of concentrations for natural soils with low organic content (Ciria 665).

Flow rate

Gas flow was detected across the site at between 0.1 and 0.2 l/hr.

Table 1 Details of ground gas monitoring installations and summary of results

Well Id	Response zone, m bgl	Response zone, m OD	Monitored strata	Carbon dioxide, %v/v	Methane, %v/v	Flow rate, l/hr
BH01	10-13	84.0-87.0	gravels	4.2	0.1	0.2
BH02	13.5-15.5	77.6-80.5	clay	0.9	0.2	0.2
BH03	13.5-20.0	83-75	Silt/sand	1.1	0.1	0.0
WS08	2.5-3.5	89.5-90.5	Clay/sand	0.2	0.1	0.2
WS10	1.5-5.4	87.4-91.3	Sand/clay	0.0	0.0	0.2
WS11	1.0-3.2	89.5-91.7	MG	1.7	0.2	0.2
WS12	1.5-6.5	86.4-91.1	Sand/clay	4.9	0.2	0.2
WS13	4.5-6.5	83.7-85.7	sand	0.4	0.2	0.2
WS14	1.0-6.5	84.1-89.6	Clay/gravel	3.4	0.3	0.2
WS15	5.0-6.5	84.4-85.9	Clay/sand	1.1	0.3	0.2
WS16	1.0-4.0	86.9-88.9	Clay/gravel	1.3	0.9	0.1
WS17	unknown	unknown	unknown	0.9	0.2	0.2
WS18	4.5-6.5	82.7-84.6	Gravel/sand	0.2	0.6	0.1
WS19	2.5-4.5	83.4-85.4	Clay/sand	0.1	0.2	-0.0

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Gas Screening Value

Gas screening values (GSV) for the site have been calculated for methane and carbon dioxide using the maximum methane concentration of 0.9% v/v, the maximum carbon dioxide concentration of 4.9% v/v with the maximum recorded of flow rate of 0.2 l/hr.

The calculated GSVs are presented in Table 2 below.

Table 2 Gas Screening Values for the area of proposed development

Ground Gas	Gas Screening Value (GSV)	Characteristic Situation
Methane	0.0018 l/hr	1
Carbon Dioxide	0.0098 l/hr	1

Gas Protection Measures

The GSVs calculated in the section above indicate that the site falls within a Characteristic Situation 1. This is based on maximum recorded concentrations and ground gas flow within the site boundary.

In accordance with the Ciria 665 guidance, Characteristic Situation 1 does not require gas protection measures.

Radon

According to the Radon report, the WAST ARC site is located within the area where full radon protective measures are required.

1.1 Summary and Conclusions

The preliminary ground gas assessment of monitoring undertaken to date indicates a very low risk from ground gases to the proposed development. The site falls into the Characteristic Situation 1, which requires no ground gas protection measures. Therefore, no additional gas protective measures to those required due to the presence of radon would be necessary. However, this is subject to the results of further ground gas monitoring within the area of proposed development.

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