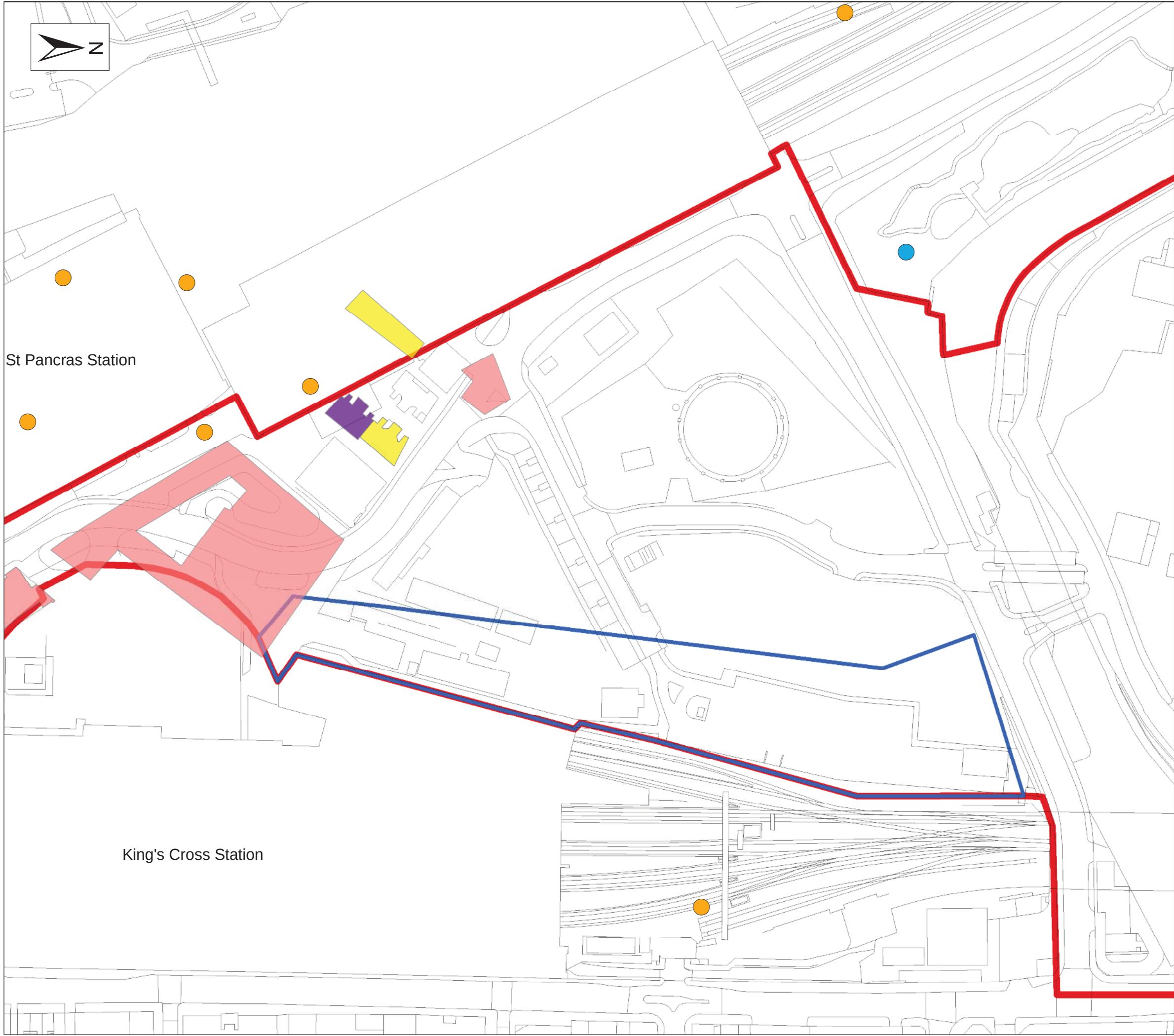


Appendix C

Unexploded Ordnance Survey Plans



Legend

- Kings Cross Central Site Boundary
- UXO Area 4

Notes

- Bomb strikes recorded between 7th October 1940 - 28th July 1941
- Night Bomb strikes recorded up to 7th October 1940

War Damage Locations

- Blast Damage, Minor in Nature
- Seriously Damaged, But Repairable at Cost
- Damage Beyond Repair

NOTE: Bomb strike, war damage & historical locations are approximate.

Rev:	Date:	Amendment:	Name:	Checked:
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Data Source: RPS 2007

Status: FINAL



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Client: Argent

Project: Kings Cross Central

Title: Summary of UXO and Explosives Risk
UXO Area 4

Scale: A3 @ 1:1,500

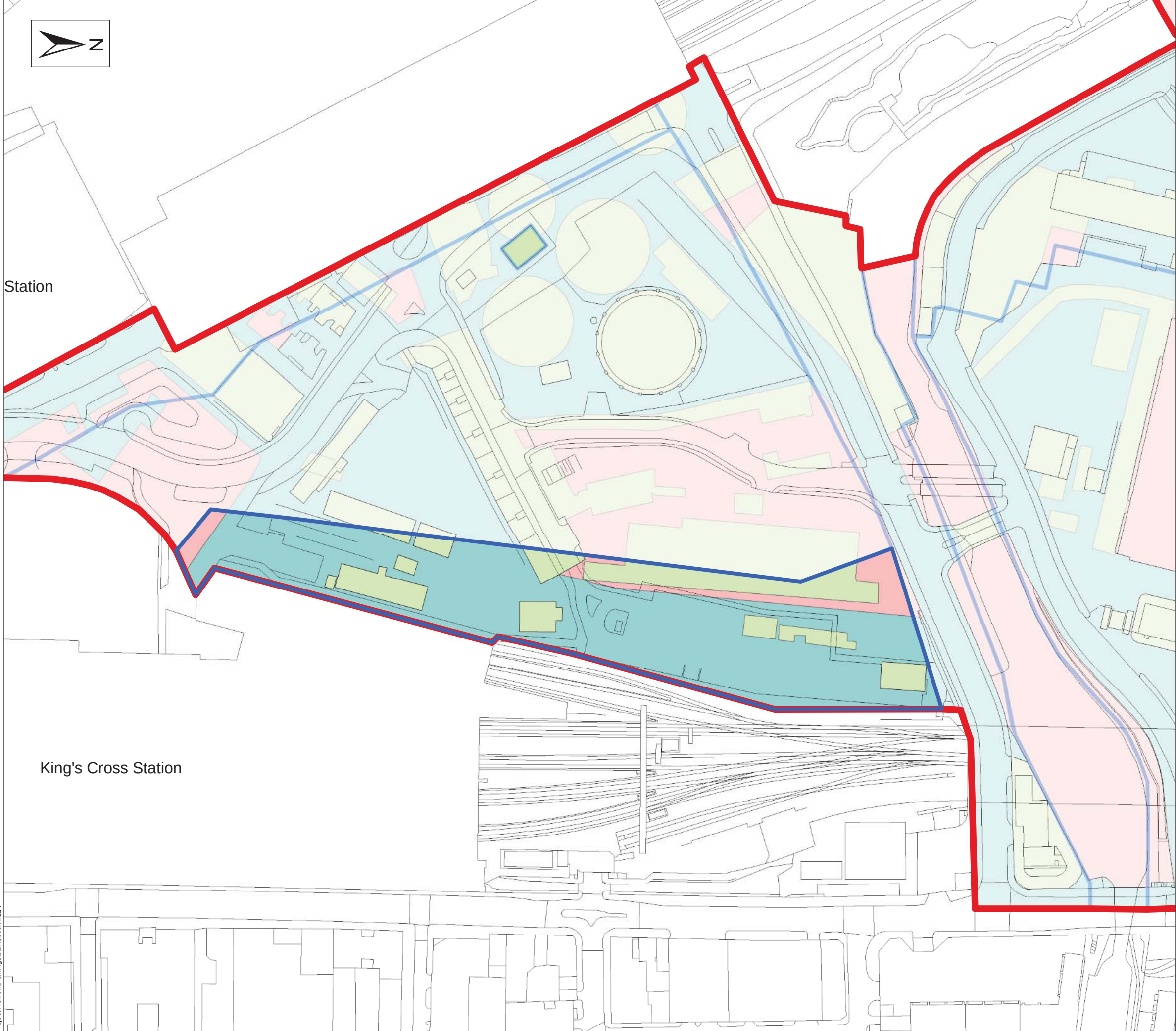
0 0.025 0.05 km



Date: 12/06/2007 Datum: OSGB36 Projection: BNG

Drawn: SRM Checked: VP Job Ref: JER3699

Drawing No: JER3699-04-003 Revision: -



Station

King's Cross Station

Legend

Kings Cross Central Site Boundary

UXO Area Boundary

Unexploded Ordnance Risk

Low Risk

Low / Moderate Risk

Moderate Risk

Rev:	Date:	Amendment:	Name:	Checked:
■ Data Source: RPS 2007				
Status: FINAL				
RPS Explosives Engineering Team 185 Park Street London SE1 9DY T 020 7928 0999 F 020 7928 0708 E eetco-ord@rpsgroup.com W www.rpsuxo.com				
■ Client: Argent				
Project: Kings Cross Central				
Title: Unexploded Ordnance Risk Map UXO Area 4				
Scale: A3 @ 1:1,500 0 0.025 0.05km				
Date: 12/06/2007 Datum: OSGB36 Projection: BNG				
Drawn: SRM Checked: VP Job Ref: JER3699				
■ Drawing No: JER3699-04-004 Revision: -				

Appendix D

Hazard Screening Assessment

Appendix D1	-	Hazard Screening Assessment
Appendix D1.2	-	Soil quality
Appendix D1.2.1.1-		Hazard Screening Guideline Values
Appendix D1.2.2	-	Soil Quality Assessment

D1 Hazard Screening Assessment

D1.1 Introduction

To simplify the assessment of risks, UK statutory guidance allows the use of authoritative and scientifically based guideline values for the initial hazard screening assessment, provided that such guideline values are available and are appropriate to the site circumstances of the pollutant linkages in question. The hazard screening assessment is used to identify contaminants of concern that may pose a risk of harm to human health, or a risk of significant pollution of groundwater at the site.

D1.2 Soil Quality

D1.2.1.1 Soil Hazard Screening Guideline Values

Generic assessment criteria (GAC) and soil guideline values (SGV) have been used as initial screening criteria to assess whether further action may be necessary to mitigate an identified pollutant linkage based on the results of the investigation of the potential sources and plausible pollutant linkages identified by the conceptual model. Where all reported sample concentrations are below the screening values and the site complies with the assumptions behind the assessment criteria, then it can be regarded as suitable for use without remediation. If the results exceed the screening assessment criteria then either further detailed assessment is provided or recommendations for mitigation such as risk management procedures and remediation have been provided.

GAC and SGV values have been calculated using the Contaminated Land Exposure Assessment (CLEA) model software (v.106) issued by the EA. The model estimates human exposure to soil contaminants for those potentially living, working and/or playing on contaminated sites over long time periods (chronic exposure). The CLEA model does not include short-term (acute) risks to humans or risks from groundwater to humans.

The proposed end-use of the Site is a commercial (office) building, with some retail space on the ground floor level. The building will extend over both currently undeveloped areas and the AR(N), AR(S) and SSY. On this basis the appropriate assessment criteria will be for a commercial end-use scenario. The commercial end-use GACs and SGVs have been compared with the soil results from the various phases of ground investigation and used as the screening assessment criteria, although because all of the building has a basement structure and there are no external landscaped areas, these GACs and SGVs are conservative (since they include allowance for dermal contact, soil ingestion and dust ingestion/inhalation pathways which will not be present). Where contaminant behaviour is dependent on the Soil Organic Matter content (SOM%), a SOM content of 1% has been assumed for the on-site soils.

A full list of all GAC used to assess the data from the site is presented in Table D1.

Soil Guideline Values (SGV), with accompanying toxicological and physical/chemical data, have been published by the Environment Agency for eleven chemicals. Soil Guideline Values are only published by the Environment Agency for a SOM of 6%. It is therefore up to individual practitioners to calculate GAC for SOM contents other than 6%. For the eleven contaminants for which SGVs exist, Arup has calculated GACs at 1% and 2.5% SOM using the physical/chemical and health criteria values published by the Environment Agency. The source data for these GACs is located on the Environment Agency website⁶ and is also included in Version 1.06 of the CLEA software and has not been reproduced in this Appendix as no amendments have been made to the data by Arup.

Generic Assessment Criteria (GAC) have also been calculated by Arup using the physical/chemical and health criteria values published by LQM/CIEH in the document “The LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment (2nd Edition)”. Arup has critically reviewed the data within this document and generated GACs using CLEA v1.06 for the contaminants within it. The Arup GACs differ to those generated by LQM for some contaminants, as a result of different input parameters being used which Arup felt were more appropriate. A summary of the reasons for any differences between the two sets of GACs is provided in Table D1.

For lead, the Environment Agency has withdrawn the TOX reports and previous model for assessing exposure to this contaminant. Arup has used the CLEA software to generate a GAC for lead based on the current CLEA approach (not the previous blood lead approach), using as the health criteria value the provisional tolerable weekly intake which was set by JECFA and was used to set the current UK Drinking Water Standard for lead. Further details on the derivation of the Arup GACs are not included in this Appendix, but can be provided on request.

For inorganic cyanide, a chronic exposure GAC has been derived by Arup using the CLEA v1.06 software and toxicological information published by the Environment Agency for this contaminant. Physical/chemical information for inorganic cyanide has been collated by Arup for the purposes of deriving a GAC and is not included in this Appendix, but can be provided on request.

For Volatile and Semi-Volatile Organic Compounds (VOC and SVOC), GAC have been derived using data from the 2009 CL:AIRE publication “The EIC/AGS/CL:AIRE Soil Generic Assessment Criteria for Human Health Risk Assessment”. This document comprises industry-agreed contaminant specific parameter values for input to the CLEA model for 35 commonly encountered contaminants. Those GACs based on data from the EIC/AGS/CL:AIRE publication are identified in Table D1.

D1.2.2 Soil Quality Assessment

The results of soil chemical testing from historical site investigations and the recent BAM Nuttall (2012) investigation have been compared to hazard screening guideline values derived as detailed above. The results of the testing carried out on samples of Made Ground and London Clay during the historic investigations

⁶ <http://www.environment-agency.gov.uk/research/planning/64002.aspx>

are given on Table D2 and the 2012 BAM Nuttall investigation are given on Table D3 and the results of analyses of groundwater samples are given on Table D4.

Table D2 Screening assessment results, Pre 2012 ground investigations

Table D3 Soil screening assessment results, 2012 ground investigation

Table D4 Results of laboratory analysis of groundwater samples

Table D1: GAC Justification

Kings Cross Central, Zone A				Ove Arup Partners Limited
Determinand	EnvironScreening Criterion mg/kg	Arup Screening criterion- GAC 1% organics, commercial	Justification	
INORGANICS				
Aluminium	387574		No published GAC available	
Antimony	7546	7442	Calculated by Arup using CLEA v1.06 and HCVs by EIC/AGS/CL:AIRE, but different solubility (Arup used solubility at 10C, EIC at 25C)	
Arsenic	635	640	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
			Calculated by Arup using CLEA v1.06 using HCVs from EIC/AGS/CL:AIRE, but different solubility (Arup used solubility at 10C, EIC at 25C)	
Barium	22076	22200		
Beryllium	417	420	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Boron	192495	192000	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Copper	71742	71700	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Cadmium	230	230	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Chromium III	30356	30400	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Chromium VI	35	35	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Lead (former SGV)	750	7300	Arup GAC calculated using CLEA v1.06 - see separate report	
Mercury, elemental	4	4	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Mercury, inorganic	3641	3600	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Mercury, methyl	66	73	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Molybdenum	17673	17000	EIC/AGS/CL:AIRE GAC	
Nickel	1788	1800	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Selenium	13023	13000	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Vanadium	3164	3160	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Zinc	665453	662000	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Cyanide	14049	16200	Calculated using CLEA v1.06 - see CLEA output	
ASSOCIATED COMPOUNDS				
Benzene (Aromatic C5-6)	16	28	Calculated using CLEA v1.06 for SOM 1% using values in Science Report SC050021 / benzene SGV	
Toluene (Aromatic C6-8)	8350	870	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Ethylbenzene	5080	518	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Xylene, o	4670	480	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Xylene, m		625	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Xylene, p		575	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
1,2,3-Trimethylbenzene	65		No published GAC available	
1,2,4-Trimethylbenzene	23	26	EIC/AGS/CL:AIRE GAC	
1,3,5-Trimethylbenzene	13		No published GAC available	
Methyl tert-butyl ether (MTBE)	4017	7900	EIC/AGS/CL:AIRE GAC	
TPH Aliphatic EC5-EC6	3680	3380	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
TPH Aliphatic >EC6-EC8	1570	8250	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 144mg/kg	
TPH Aliphatic >EC8-EC10	792	2130	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 78mg/kg	
TPH Aliphatic >EC10-EC12	477	10300	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 48mg/kg	
TPH Aliphatic >EC12-EC16	237	60800	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 24mg/kg	
TPH Aliphatic >EC16-EC35	6500	673000	Calculated by Arup using CLEA v1.06. All inputs as LQM/CIEH GAC apart from sub-surface to indoor air CF of 1 used (LQM used 10). Saturation limit is 8.5mg/kg	
TPH Aliphatic >EC35-EC44	6500	673000	Calculated by Arup using CLEA v1.06. All inputs as LQM/CIEH GAC apart from sub-surface to indoor air CF of 1 used (LQM used 10). Saturation limit is 8.5mg/kg	
TPH Aromatic >EC8-EC10	6100	3670	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 613mg/kg	
TPH Aromatic >EC10-EC12	3620	16900	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 364mg/kg	
TPH Aromatic >EC12-EC16	1680	36200	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 164mg/kg	
TPH Aromatic >EC16-EC21	6500	26700	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
TPH Aromatic >EC21-EC35	6500	28400	Calculated by Arup using CLEA v1.06. All inputs as LQM/CIEH GAC apart from sub-surface to indoor air CF of 1 used (LQM used 10)	
TPH Aromatic >EC35-EC44	6500	28400	Calculated by Arup using CLEA v1.06. All inputs as LQM/CIEH GAC apart from sub-surface to indoor air CF of 1 used (LQM used 10)	
TPH Ali&Aro >EC44-EC70	6500	28400	Calculated by Arup using CLEA v1.06. All inputs as LQM/CIEH GAC apart from sub-surface to indoor air CF of 1 used (LQM used 10)	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)				
Acenaphthene	567	84900	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 57mg/kg	
Acenaphthylene	855	84300	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 86mg/kg	
Anthracene	522478	525000	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Benz(a)anthracene	16	90	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Benzo(a)pyrene	13	14	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Benzo(b)fluoranthene	17	100	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Benzo(k)fluoranthene	19	141	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Benzo(ghi)perylene	19	654	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Chrysene	13	137	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Dibenzo(ah)anthracene	19	13	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Indeno(123-cd)pyrene	18	60	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
Fluoranthene	22607	22600	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	
			Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 31mg/kg	
Fluorene	308	63500		
			Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC. Saturation limit is 76mg/kg	
Naphthalene	750	204		
Phenanthrene	21899	21900	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC	

Kings Cross Central, Zone A			Ove Arup Partners Limited
Pyrene	54263	54200	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
into account explosivity			
RDX ENVIRON	6412	6370	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
HMX ENVIRON	108049	107000	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
2,4,6 Trinitrotoluene (TNT) ENVIRON	1035	1040	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
PESTICIDES, VOCS & SVOCs)			
1,1,1,2-Tetrachloroethane	63	115	Calculated by Arup using CLEA v1.06. Equals LQM GAC
1,1,1-Trichloroethane	392	700	Calculated by Arup using CLEA v1.06. Equals LQM GAC
1,1,2 Trichloroethane	51	94	EIC/AGS/CL:AIRE GAC
1,1,2,2-Tetrachloroethane	156	290	Calculated by Arup using CLEA v1.06. Equals LQM GAC
1,1-Dichloroethane	148	280	EIC/AGS/CL:AIRE GAC
1,1-Dichloroethene	15	26	EIC/AGS/CL:AIRE GAC
1,2,3,4-Tetrachlorobenzene	1220	1630	Arup GAC based on LQM inputs but using different method of route-to-route extrapolation
1,2,3,5-Tetrachlorobenzene	28	48	Arup GAC based on LQM inputs but using different method of route-to-route extrapolation
1,2,3-Trichlorobenzene	59	108	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
1,2,4,5-Tetrachlorobenzene	197	35	Arup GAC based on LQM inputs but using different method of route-to-route extrapolation
1,2,4-Trichlorobenzene	123	228	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
1,2-Dichlorobenzene	5620	2140	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
1,2-Dichloroethane	0.356	0.7	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
1,2-Dichloropropane	1.720	3.3	EIC/AGS/CL:AIRE GAC
1,3,5-Trichlorobenzene	13	24	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
1,3-Dichlorobenzene	18	32	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
1,4-Dichlorobenzene	2210	4460	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
2,3,4,6-Tetrachlorophenol	2640	3900	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
2,4,6-Trichlorophenol	8480	3880	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
2,4-Dichlorophenol	3532	3470	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
2,4-Dimethylphenol	13879	16000	EIC/AGS/CL:AIRE GAC
2,4-Dinitrotoluene	3747	3700	EIC/AGS/CL:AIRE GAC
2,6-Dinitrotoluene	1861	1900	EIC/AGS/CL:AIRE GAC
2-Chloronaphthalene	1130	390	EIC/AGS/CL:AIRE GAC. Saturation limit is 114mg/kg
2-Chlorophenol	3587	3540	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
2-Methylphenol	162317		No published GAC available
3-Methylphenol	171596		No published GAC available
4-Methylphenol	163508		No published GAC available
Aldrin	53	51	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Alpha-endosulfan	0.028	2310	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC (vapour saturation limit is 0.003mg/kg)
Alpha-Hexachlorocyclohexane (HCH)	14008	1120	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Anthraquinone, 9,10-	1632		No published GAC available
Atrazine	877	733	Arup GAC based on LQM inputs but using different method of route-to-route extrapolation
Azobenzene	4900		No published GAC available
Beta-endosulfan	0.0007	2580	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC (vapour saturation limit is 0.0007mg/kg)
Beta-Hexachlorocyclohexane (HCH)	1126	1120	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Biphenyl	11292	18000	EIC/AGS/CL:AIRE GAC
Bis (2-chloroethoxy) methane	2.71		No published GAC available
Bis (2-chloro-ethyl) ether	0.554		No published GAC available
Bis (2-chloroisopropyl) ether	28		No published GAC available
Bis (2-ethylhexyl) phthalate	85379	85000	EIC/AGS/CL:AIRE GAC. Saturation limit is 8.68mg/kg
Bromobenzene	54	97	EIC/AGS/CL:AIRE GAC
Bromodichloromethane	1.10	2.1	EIC/AGS/CL:AIRE GAC
Bromoform	417	760	EIC/AGS/CL:AIRE GAC
Bromomethane	55		No published GAC available
Bromophenyl phenylether, 4-	3.388		No published GAC available
Butyl benzyl phthalate	942050	940000	EIC/AGS/CL:AIRE GAC
Butylbenzene, n-	250103		No published GAC available
Butylbenzene, sec-	333333		No published GAC available
Butylbenzene, tert-	333333		No published GAC available
Carbazole	4376		No published GAC available
Carbon Disulphide	7	12	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Chloro-3-methylphenol, 4-	31831		No published GAC available
Chloroaniline, p-	318		No published GAC available
Chlorobenzene	33	59	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Chlorobromomethane (bromochloromethane)	333333		No published GAC available
Chloroethane	567	960	EIC/AGS/CL:AIRE GAC
Chloroethene (Vinyl Chloride)	0.040	0.063	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Chloromethane	0.593	1	EIC/AGS/CL:AIRE GAC
Chlorophenyl phenylether, 4-	0.903		No published GAC available
Chlorotoluene, o (chlorotoluene-2)-	5290		No published GAC available
Chlorotoluene, p- (4-chlorotoluene)	333333		No published GAC available
Cis 1,2 Dichloroethene	8	14	EIC/AGS/CL:AIRE GAC
Cymene (isopropyltoluene)	333333		No published GAC available
Dibenzofuran	25465		No published GAC available
Dibromo-3-chloropropane, 1,2-	0.0182		No published GAC available
Dibromochloromethane	16086		No published GAC available
Dichlorodifluoromethane	1088		No published GAC available
Dichloromethane	142	270	EIC/AGS/CL:AIRE GAC
Dichloropropane, 1,3-	27		No published GAC available
Dichloropropane, 2,2-	44		No published GAC available
Dichloropropene, 1,1-	27		No published GAC available
Dichloropropene, 1,3-	27		No published GAC available
Dichloropropene, 1,3-cis	201		No published GAC available
Dichloropropene, 1,3-trans	27		No published GAC available

Appendix D

Table D1: Arup GAC Justification

Kings Cross Central, Zone A			Ove Arup Partners Limited
Dichlorvos	857	842	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Dieldrin	89	87	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Diethyl Phthalate	126344	150000	EIC/AGS/CL:AIRE GAC
Dimethylphthalate	333333		No published GAC available
Di-n-butyl phthalate	46	15000	EIC/AGS/CL:AIRE GAC
Dinitrophenol, 2,4-	24354		No published GAC available
Di-n-octyl phthalate	89115	89000	EIC/AGS/CL:AIRE GAC
Ethylene dibromide	0.182		No published GAC available
Gamma-Hexachlorocyclohexane (HCH)	534		No published GAC available
Hexachloro-1,3-butadiene	18		No published GAC available
Hexachlorobenzene	1.990	47	Arup GAC based on LQM inputs but using different method of route-to-route extrapolation. Saturation limit is 0.2mg/kg
Hexachlorocyclopentadiene	2.183		No published GAC available
Hexachloroethane	12	22	EIC/AGS/CL:AIRE GAC. Saturation limit is 8.17mg/kg
Isophorone	65607		No published GAC available
Iso-propylbenzene (cumene)	3880	1400	EIC/AGS/CL:AIRE GAC
Methyl naphthalene, 1-	2956		No published GAC available
Methylene bromide	44		No published GAC available
Methylnaphthalene, 2-	34290		No published GAC available
Nitroaniline, 2-	139		No published GAC available
Nitroaniline, 3-	2000		No published GAC available
Nitroaniline, 4-	1700		No published GAC available
Nitrobenzene	15		No published GAC available
Nitrophenol, 2-	12732		No published GAC available
Nitrophenol, 4-	24354		No published GAC available
Nitrosodi-n-propylamine, n-	5		No published GAC available
Pentachlorobenzene	430	630	Arup GAC based on LQM inputs but using different method of route-to-route extrapolation. Saturation limit is 43mg/kg
Pentachlorophenol	1234	1220	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Phenol	30790	3200	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Polychlorinated biphenyls (PCBS)	0.240	0.24	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Propylbenzene , n-	3990	4100	EIC/AGS/CL:AIRE GAC
Styrene	6070	3300	EIC/AGS/CL:AIRE GAC
Tetrachloroethene (PCE)	72	131	EIC/AGS/CL:AIRE GAC
Tetrachloromethane (carbon tetrachloride)	1.74	3	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Trans 1,2 Dichloroethene	12	22	EIC/AGS/CL:AIRE GAC
Tributyl tin oxide	134	130	EIC/AGS/CL:AIRE GAC
Trichloro-1,2,2-trifluoroethane, 1,1,2-	27000		No published GAC available
Trichloroethene (TCE)	0.725	12	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Trichlorofluoromethane	333333		No published GAC available
Trichloromethane (Chloroform)	57	107	Calculated by Arup using CLEA v1.06 using inputs by LQM/CIEH. Equals LQM GAC
Trichlorophenol, 2,4,5-	333333		No published GAC available
Trichloropropane, 1,2,3-	3.06		No published GAC available

Appendix D

Table D1: Arup GAC Justification

Table D2 - Screening assessment results, Pre 2012 ground investigations

GI contractor			NWH 08	NWH 08	NWH 08	NWH 08	NWH 08	NWH 08	SM	SM	SM
Soil Sample			TP1001	TP1001	TP1003	TP1003	TP1004	TP1004	BH6	BH4	BH7
Depth (m)			1.5	2	1.5	3	1	2.5	1.6	1.5	0.7
Date									39326	39448	39448
Strata			MG	MG	MG	LC	MG	MG	MG	LC	MG
Determinants	Units	Screening Criteria									
		Commercial 1%									
Metals											
Arsenic	mg/kg	640	44	4	18	6	8	8	6.4	8.8	11.3
Cadmium	mg/kg	230	<0.2	0.3	0.8	<0.2	0.5	<0.2	0.17	0.17	0.2
Chromium	mg/kg	na	33	48	28	44	13	<4.5	15.2	44.4	20.1
Copper	mg/kg	71700	190	32	95	29	21	26	11.8	26.8	25.4
Lead	mg/kg	7300	1100	17	340	19	290	60	9.3	20.8	86.8
Mercury	mg/kg	3800	<0.4	<0.4	1	0.5	0.7	<0.4	0.11	0.15	0.2
Nickel	mg/kg	1800	39	45	29	46	12	4.9	14.1	43.8	17.6
Selenium	mg/kg	13000	<3	<3	<3	<3	<3	<3	<0.5	0.7	<0.5
Zinc	mg/kg	662000							34.4	82.5	142.2
water soluble Sulphate (SD4 2:1 Extract)	g/l	na	0.92	0.32	0.36	1.7	1.6	1.5			
Miscellaneous											
Total cyanide	mg/kg	na	9	<1	38	<1	<1	64	<0.5	<0.7	0.6
Inorganic Free Cyanide (chronic)	mg/kg	16200									
pH		na	8.14	7.48	8.06	8.12	9.22	7.2	11.4	8	11.6
Total Organic Matter	%	na	3.6	0.37	8.3	0.53	0.94	88			
Hexavalent Chromium	mg/kg	na	<3.0	<3.0							
Asbestos		na								NBFO	NBFO
PAHs											
Total PAH 16 EPA	mg/kg	na		<0.001	0.23	<10		69	<1.28	<1.68	<11.40
Acenaphthene	mg/kg	84900	0.36				0.009	0.46	<0.08	<0.11	<0.09
Acenaphthylene	mg/kg	84300	0.067				0.23	2.7	<0.08	<0.11	<0.09
Anthracene	mg/kg	525000	0.36				0.088	5.1	<0.08	<0.11	0.27
Benzo[a]anthracene	mg/kg	90	0.8				0.37	30	<0.08	<0.11	0.73
Benzo[a]pyrene	mg/kg	14	0.78				0.68	2.3	<0.08	<0.11	0.83
Benzo[b]fluoranthene	mg/kg	100	1.4				0.9	2.7	<0.08	<0.11	1.14
Benzo[k]fluoranthene	mg/kg	141	0.48				0.32	1.4	<0.08	<0.11	0.54
Benzo[ghi]perylene	mg/kg	654	0.77				0.5	1.1	<0.08	<0.11	0.66
Chrysene	mg/kg	137	0.81				0.42	2.9	<0.08	<0.11	1.09
Dibenz[a]anthracene	mg/kg	13	0.16				0.83	0.2	<0.08	<0.11	0.19
Fluoranthene	mg/kg	22600	1.8				0.45	8.2	<0.08	<0.11	1.84
Fluorene	mg/kg	63500	0.12				0.024	3.5	<0.08	<0.11	<0.09
Indeno[123-cd]pyrene	mg/kg	60	0.62				0.44	0.91	<0.08	<0.11	0.69
Naphthalene	mg/kg	204	0.33				0.12	0.44	<0.08	<0.11	<0.09
Phenanthrene	mg/kg	21900	1.6				0.11	13	<0.08	<0.11	0.52
Pyrene	mg/kg	54200	1.4				0.52	6	<0.08	<0.11	2.51
EPH (C10-C40)		na									
BTEX											
Benzene	mg/kg	28	<0.001				<0.001		<0.005	<0.007	<0.006
Ethylbenzene	mg/kg	518	<0.001				<0.001		<0.005	<0.007	<0.006
Toluene	mg/kg	870	<0.001				<0.001		<0.005	<0.007	<0.006
o-Xylene	mg/kg	480	<0.001				<0.001		<0.01	<0.013	<0.012
m-Xylene	mg/kg	625	<0.001				<0.001				
p-Xylene	mg/kg	575	<0.001				<0.001				
Phenols											
Phenols Monohydric	mg/kg	na	<0.15	<0.15			<0.15	3.2			
Phenol	mg/kg	3200							<0.7		

Table D3 - Soil Screening Assessment Table

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2		
				Area	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1		
Lab Sample Number					227920	227644	227649	227663	227666	227672	227918	227919	227642	227643	227645	227646	227647	227648	227662	227679	227664	227665	227667	227668	227669	227670	227671
Sample Reference					TP1213	WS1223	BH1227	TP1212	WS1222	TP1214	TP1213	TP1213	WS1223	WS1223	WS1224	WS1224	BH1227	BH1227	TP1212	Duplicate (TP1212)	WS1222	WS1222	TP1211	TP1211	TP1211	TP1214	TP1214
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					1.30-1.40	1.50-1.60	2.00-2.20	1.00-1.10	2.00-2.10	1.15-1.25	0.30	0.90	0.30-0.40	0.80-0.90	0.80-0.90	2.80-3.00	0.40-0.50	1.00-1.20	0.80-0.90	0.8 - 0.9	0.40-0.50	1.50-1.60	0.15-0.30	0.60-0.65	0.90-0.95	0.50-0.60	1.10-1.15
Date Sampled					21/09/2012	17/09/2012	17/09/2012	18/09/2012	18/09/2012	18/09/2012	21/09/2012	21/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	18/09/2012	19/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012
Time Taken					1115	1230	1450	1525	1000	1705	1100	1110	1115	1150	1330	1443	1100	1110	1515	None Supplied	0900	1000	0940	1255	1305	1640	1700
Temperature on receipt at laboratory (°C)				Screening criteria	6.6	6.3	6.3	6.3	6.3	6.3	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1%)																							
Stone Content	%	0.1	NONE	nc	< 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	
Moisture Content	%	N/A	NONE	nc	20	22	22	23	20	21	17	22	21	20	22	18	8	10	5.4	10	7.1	18	7.3	19	23	3.5	22
Total mass of sample received	kg	0.001	NONE	nc	0.89	1.2	1	1.3	1.3	1.2	1.1	1.1	1.4	1.3	1.4	0.62	1.4	1.3	1.4	1.7	1.3	1.4	1.3	1.1	1.2	1.6	1.5
Asbestos in Soil Screen	P/A	N/A	ISO 17025	nc	-	-	-	-	-	-	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	-	Absent	Absent	Absent	Absent	-	Absent	Absent
Asbestos Identification Name	Type	N/A	ISO 17025	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification Name (Subcontracted)	Type	N/A	ISO 17025	nc																							
Asbestos Quantification (Subcontracted)	%	0.001	ISO 17025	nc																							
General Inorganics				-																							
pH	pH Units	N/A	MCERTS	nc	7.5	8	8.6	8.3	8.3	8	10.2	7.8	9.7	9.8	10.9	9.5	11.4	11.2	8.8	7.1	10.9	10.7	11.5	7.4	7.8	9	8.3
Total Cyanide	mg/kg	1	MCERTS	16200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	1	NONE	nc																							
Free Cyanide	mg/kg	1	NONE	nc																							
Thiocyanate as SCN	mg/kg	5	NONE	nc																							
Water Soluble Sulphate as SO ₄ (2:1)	g/l	0.0025	MCERTS	nc	5	5.2	2.1	3.8	4.4	1.9	4.1	3.9	0.53	2.3	1.4	1	1.1	1.4	0.49	0.38	1.9	2.5	0.21	0.67	1.7	0.027	0.88
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	nc	5000	5200	2100	3800	4400	1900	4100	3900	530	2300	1400	1000	1100	1400	490	380	1900	2500	210	670	1700	27	880
Sulphide	mg/kg	1	MCERTS	nc	-	-	-	-	-	-	-	< 1.0	-	21	60	-	30	-	100	-	-	-	-	84	-	-	59
Water Soluble Chloride (2:1)	mg/kg	5	MCERTS	nc	-	-	-	-	-	-	-	140	-	180	16	-	190	-	23	-	-	-	190	-	-	63	
Elemental Sulphur	mg/kg	20	NONE	nc	-	-	-	-	-	-	-	< 20	-	< 20	< 20	-	< 20	-	500	-	-	-	< 20	-	-	-	820
Ammoniacal Nitrogen as N	mg/kg	5	MCERTS	nc																							
Ammonium as NH ₄	mg/kg	5	MCERTS	nc	-	-	-	-	-	-	-	5	-	7.1	6.9	-	5.9	-	5.9	-	-	-	7.2	-	-	-	7.7
Total Organic Carbon (TOC)	%	0.1	MCERTS	nc	0.2	0.3	0.6	0.1	0.4	0.6	0.3	< 0.1	1.6	0.7	0.6	0.8	0.9	0.3	0.2	0.7	0.7	0.9	0.5	3.8	0.1	< 0.1	1.1
Loss on Ignition @ 450°C	%	0.2	MCERTS	nc	7.1	4.6	3.9	6.8	5.4	6	7.1	6.3	4.3	3.7	3.1	5.7	3.6	3.6	1.4	2.2	3.3	4.4	6.9	9.9	5.3	< 0.20	6.8
				-																							
Phenols by HPLC				nc																							
Catechol	µg/kg	1	NONE	nc	< 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	
Resorcinol	µg/kg	1	NONE	nc	< 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	
Butyl Phenols	µg/kg	1	NONE	nc	< 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	
Cresols	µg/kg	1	NONE	nc	< 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	
Naphthols	µg/kg	1	NONE	nc	< 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	
Phenol	µg/kg	0.1	ISO 17025	3200	< 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	
Trimethylphenol	µg/kg	1	NONE	nc	< 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	
				-																							
Total Phenols				nc																							
Total Phenols (monohydric)	mg/kg	2	MCERTS	nc	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Total Phenols (HPLC)	µg/kg	7	NONE	nc	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	
				-																							
Speciated PAHs				nc																							
Naphthalene	mg/kg	0.05	MCERTS	204	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	< 0.05	0.23	0.1	0.11	< 0.05	< 0.05	0.12	0.16	< 0.05	5.8	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	84300	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.27	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	84900	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14	0.14	< 0.10	< 0.10	0.22	< 0.10	< 0.10	4	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	63500	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.22	< 0.20	< 0.20	3.8	< 0.20	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	21900	< 0.20	< 0.20	0.2	0.23	< 0.20	< 0.20	0.24	< 0.20	0.25	< 0.20	0.21	0.46	1.8	1.7	< 0.20	< 0.20	2.5	0.42	0.43	22	< 0.20	< 0.20	< 0.20
Anthracene	mg/kg	0.1	MCERTS	525000	< 0.10	< 0.10	< 0.10	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.44	0.43	0.15	< 0.10	0.52	0.11	0.11	4.5	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.2	MCERTS	22600	< 0.20	< 0.20	0.27	0.64	< 0.20	< 0.20	0.31	< 0.20	0.83	0.39	0.28	0.46	3.2	3.4	0.63	< 0.20	3.2	0.54	0.78	25	< 0.20	< 0.20	< 0.20
Pyrene	mg/kg	0.2	MCERTS	54200	< 0.20	< 0.20	0.24	0.58	< 0.20	< 0.20	0.29	< 0.20	0.82	0.3	0.23	0.59	2.9	2.9	0.57	< 0.20	2.7	0.5	0.75	20	< 0.20	< 0.20	0.52
Benzo(a)anthracene	mg/kg	0.2	MCERTS	90	< 0.20	< 0.20	< 0.20	0.45	< 0.20																		

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2		
				Area	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1		
Lab Sample Number					227920	227644	227649	227663	227666	227672	227918	227919	227642	227643	227645	227646	227647	227648	227662	227679	227664	227665	227667	227668	227669	227670	227671
Sample Reference					TP1213	WS1223	BH1227	TP1212	WS1222	TP1214	TP1213	TP1213	WS1223	WS1223	WS1224	WS1224	BH1227	BH1227	TP1212	Duplicate (TP1212)	WS1222	WS1222	TP1211	TP1211	TP1211	TP1214	TP1214
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					1.30-1.40	1.50-1.60	2.00-2.20	1.00-1.10	2.00-2.10	1.15-1.25	0.30	0.90	0.30-0.40	0.80-0.90	0.80-0.90	2.80-3.00	0.40-0.50	1.00-1.20	0.80-0.90	0.8 - 0.9	0.40-0.50	1.50-1.60	0.15-0.30	0.60-0.65	0.90-0.95	0.50-0.60	1.10-1.15
Date Sampled					21/09/2012	17/09/2012	17/09/2012	18/09/2012	18/09/2012	18/09/2012	21/09/2012	21/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	18/09/2012	19/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012
Time Taken					1115	1230	1450	1525	1000	1705	1100	1110	1115	1150	1330	1443	1100	1110	1515	None Supplied	0900	1000	0940	1255	1305	1640	1700
Temperature on receipt at laboratory (°C)				Screening criteria	6.6	6.3	6.3	6.3	6.3	6.3	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1 %)																							
Monoaromatics				-																							
Benzene	µg/kg	1	MCERTS	28	< 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
Toluene	µg/kg	1	MCERTS	870	< 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
Ethylbenzene	µg/kg	1	MCERTS	518	< 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
p & m-xylene	µg/kg	1	MCERTS	575	< 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
o-xylene	µg/kg	1	MCERTS	480	< 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
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	7900	< 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
				-																							
Petroleum Hydrocarbons				-																							
Petroleum Range Organics (C6 - C10)	mg/kg	0.1	NONE	nc	< 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
				-																							
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	3380	< 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
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	8250	< 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
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	2130	< 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
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	10300	< 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	58	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	7.9
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	60800	< 2.0	2.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	31	1200	4.8	44	< 2.0	82	< 2.0	280
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	673000	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	15	9.8	< 8.0	< 8.0	21	12	130	1700	12	180	17	160	< 8.0	770
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	673000	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	24	17	< 8.0	< 8.0	97	58	180	410	83	500	33	240	< 8.0	240
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	43	27	< 10	< 10	120	70	350	3400	100	720	49	490	< 10	< 10	1300
				-																							
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	27700	< 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
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	59000	< 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
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	3670	< 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
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	16900	< 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	3.5	< 1.0	1.3	< 1.0	10	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	36200	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.7	350	< 2.0	7.5	< 2.0	39	< 2.0	75
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	26700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	55	940	12	84	< 10	180	< 10	< 10	450
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	28400	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	24	< 10	230	52	360	< 10	310	< 10	< 10	170
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	35	58	1500	64	450	< 10	540	< 10	< 10	700
				-																							
TPH (C10 - C25)	mg/kg	10	NONE	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	26	17	< 10	< 10	69	52	260	4800	64	570	26	550	< 10	< 10	1800
TPH (C25 - C40)	mg/kg	10	NONE	nc																							
				-																							
VOCs				-																							
Chloromethane	µg/kg	4	ISO 17025	1000	-	-	-	-	-	-	-	-	-	< 4.0	-	< 4.0	-	< 4.0	-	-	< 4.0	-	< 4.0	< 4.0	-	< 4.0	< 4.0
Chloroethane	µg/kg	2	ISO 17025	960000	-	-	-	-	-	-	-	-	-	< 2.0	-	< 2.0	-	< 2.0	-	-	< 2.0	-	< 2.0	< 2.0	-	< 2.0	< 2.0
Bromomethane	µg/kg	6	ISO 17025	nc	-	-	-	-	-	-	-	-	-	< 6.0	-	< 6.0	-	< 6.0	-	-	< 6.0	-	< 6.0	< 6.0	-	< 6.0	< 6.0
Vinyl Chloride	µg/kg	24	ISO 17025	630	-	-	-	-	-	-	-	-	-	< 24	-	< 24	-	< 24	-	-	< 24	-	< 24	< 24	-	< 24	< 24
Trichlorofluoromethane	µg/kg	5	ISO 17025	nc	-	-	-	-	-	-	-	-	-	< 5.0	-	< 5.0	-	< 5.0	-	-	< 5.0	-	< 5.0	< 5.0	-	< 5.0	< 5.0
1,1-dichloroethene	µg/kg	7	MCERTS	26000	-	-	-	-	-	-	-	-	-	< 7.0	-	< 7.0	-	< 7.0	-	-	< 7.0	-	< 7.0	< 7.0	-	< 7.0	< 7.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	7	ISO 17025	nc	-	-	-	-	-	-	-	-	-	< 7.0	-	< 7.0	-	< 7.0	-	-	< 7.0	-	< 7.0	< 7.0	-	< 7.0	< 7.0
Cis-1,2-dichloroethene	µg/kg	7	MCERTS	14000	-	-	-	-	-	-	-	-	-	< 7.0	-	< 7.0	-	< 7.0	-	-	< 7.0	-	< 7.0	< 7.0	-	< 7.0	< 7.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	nc	-	-	-																				

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2		
				Area	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1		
Lab Sample Number					227920	227644	227649	227663	227666	227672	227918	227642	227643	227645	227646	227647	227648	227662	227679	227664	227665	227667	227668	227669	227670	227671	
Sample Reference					TP1213	WS1223	BH1227	TP1212	WS1222	TP1214	TP1213	TP1213	WS1223	WS1223	WS1224	WS1224	BH1227	BH1227	TP1212	Duplicate (TP1212)	WS1222	WS1222	TP1211	TP1211	TP1211	TP1214	TP1214
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	
Depth (m)					1.30-1.40	1.50-1.60	2.00-2.20	1.00-1.10	2.00-2.10	1.15-1.25	0.30	0.90	0.30-0.40	0.80-0.90	0.80-0.90	2.80-3.00	0.40-0.50	1.00-1.20	0.80-0.90	0.8 - 0.9	0.40-0.50	1.50-1.60	0.15-0.30	0.60-0.65	0.90-0.95	0.50-0.60	1.10-1.15
Date Sampled					21/09/2012	17/09/2012	17/09/2012	18/09/2012	18/09/2012	18/09/2012	21/09/2012	21/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	18/09/2012	19/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012
Time Taken					1115	1230	1450	1525	1000	1705	1100	1110	1115	1150	1330	1443	1100	1110	1515	None Supplied	0900	1000	0940	1255	1305	1640	1700
Temperature on receipt at laboratory (*C)				Screening criteria	6.6	6.3	6.3	6.3	6.3	6.3	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1 %)																							
1,3,5-Trimethylbenzene	µg/kg	4	ISO 17025	nc	-	-	-	-	-	-	-	-	-	< 4.0	-	< 4.0	-	< 4.0	-	-	< 4.0	-	< 4.0	< 4.0	-	< 4.0	
Tert-Butylbenzene	µg/kg	4	NONE	nc	-	-	-	-	-	-	-	-	-	< 4.0	-	< 4.0	-	< 4.0	-	-	< 4.0	-	< 4.0	< 4.0	-	< 4.0	
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	nc	-	-	-	-	-	-	-	-	-	< 5.0	-	< 5.0	-	< 5.0	-	-	< 5.0	-	< 5.0	< 5.0	-	< 5.0	
Sec-Butylbenzene	µg/kg	5	NONE	nc	-	-	-	-	-	-	-	-	-	< 5.0	-	< 5.0	-	< 5.0	-	-	< 5.0	-	< 5.0	< 5.0	-	< 5.0	
1,3-dichlorobenzene	µg/kg	7	ISO 17025	nc	-	-	-	-	-	-	-	-	-	< 7.0	-	< 7.0	-	< 7.0	-	-	< 7.0	-	< 7.0	< 7.0	-	< 7.0	
P-Isopropyltoluene	µg/kg	16	ISO 17025	nc	-	-	-	-	-	-	-	-	-	< 16	-	< 16	-	< 16	-	-	< 16	-	< 16	< 16	-	< 16	
1,2-dichlorobenzene	µg/kg	5	MCERTS	2140000	-	-	-	-	-	-	-	-	-	< 5.0	-	< 5.0	-	< 5.0	-	-	< 5.0	-	< 5.0	< 5.0	-	< 5.0	
1,4-dichlorobenzene	µg/kg	8	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 8.0	-	< 8.0	-	< 8.0	-	-	< 8.0	-	< 8.0	< 8.0	-	< 8.0	
Butylbenzene	µg/kg	4	NONE	nc	-	-	-	-	-	-	-	-	-	< 4.0	-	< 4.0	-	< 4.0	-	-	< 4.0	-	< 4.0	< 4.0	-	< 4.0	
1,2-Dibromo-3-chloropropane	µg/kg	7	ISO 17025	nc	-	-	-	-	-	-	-	-	-	< 7.0	-	< 7.0	-	< 7.0	-	-	< 7.0	-	< 7.0	< 7.0	-	< 7.0	
1,2,4-Trichlorobenzene	µg/kg	9	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 9.0	-	< 9.0	-	< 9.0	-	-	< 9.0	-	< 9.0	< 9.0	-	< 9.0	
Hexachlorobutadiene	µg/kg	7	NONE	nc	-	-	-	-	-	-	-	-	-	< 7.0	-	< 7.0	-	< 7.0	-	-	< 7.0	-	< 7.0	< 7.0	-	< 7.0	
1,2,3-Trichlorobenzene	µg/kg	10	NONE	108000	-	-	-	-	-	-	-	-	-	< 10	-	< 10	-	< 10	-	-	< 10	-	< 10	< 10	-	< 10	
VOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	None Detected	-	None Detected	-	None Detected	-	-	None Detected	-	None Detected	None Detected	-	None Detected	
VOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	-	0	-	0	0	-	0	
VOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aniline	mg/kg	0.1	NONE	nc	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
Phenol	mg/kg	0.2	ISO 17025	3200	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	< 0.2	< 0.2	-	< 0.2	
2-Chlorophenol	mg/kg	0.1	MCERTS	3587	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	< 0.2	< 0.2	-	< 0.2	
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	32	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	< 0.2	< 0.2	-	< 0.2	
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	2140	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	4460	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	< 0.2	< 0.2	-	< 0.2	
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
2-Methylphenol	mg/kg	0.3	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	< 0.3	-	< 0.3	
Hexachloroethane	mg/kg	0.3	MCERTS	22	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	< 0.3	-	< 0.3	
Nitrobenzene	mg/kg	0.3	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	< 0.3	-	< 0.3	
4-Methylphenol	mg/kg	0.2	NONE	nc	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	< 0.2	< 0.2	-	< 0.2	
Isophorone	mg/kg	0.2	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	< 0.2	< 0.2	-	< 0.2	
2-Nitrophenol	mg/kg	0.3	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	< 0.3	-	< 0.3	
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	16000	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	< 0.3	-	< 0.3	
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	< 0.3	-	< 0.3	
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	228	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	< 0.3	-	< 0.3	
Naphthalene	mg/kg	0.1	ISO 17025	204	-	-	-	-	-	-	-	-	-	< 0.1	-	0.1	-	< 0.1	-	-	0.2	-	5.8	< 0.1	-	< 0.1	
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	3470	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	< 0.3	-	< 0.3	
4-Chloroaniline	mg/kg	0.1	NONE	nc	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
Hexachlorobutadiene	mg/kg	0.1	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	nc	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	3880	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	< 0.2	< 0.2	-	< 0.2	
2-Methylnaphthalene	mg/kg	0.1	NONE	nc	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	2.1	< 0.1	-	< 0.1	
2-Chloronaphthalene	mg/kg	0.1	MCERTS	390	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
Dimethylphthalate	mg/kg	0.1	MCERTS	nc	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	1900	-	-	-	-	-	-	-	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	
Acenaphthylene	mg/kg	0.2	ISO 17025	nc	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	0.3	< 0.2	-		

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2		
				Area	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1		
Lab Sample Number					227920	227644	227649	227663	227666	227672	227918	227919	227642	227643	227645	227646	227647	227648	227662	227679	227664	227665	227667	227668	227669	227670	227671
Sample Reference					TP1213	WS1223	BH1227	TP1212	WS1222	TP1214	TP1213	TP1213	WS1223	WS1223	WS1224	WS1224	BH1227	BH1227	TP1212	Duplicate (TP1212)	WS1222	WS1222	TP1211	TP1211	TP1211	TP1214	TP1214
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					1.30-1.40	1.50-1.60	2.00-2.20	1.00-1.10	2.00-2.10	1.15-1.25	0.30	0.90	0.30-0.40	0.80-0.90	0.80-0.90	2.80-3.00	0.40-0.50	1.00-1.20	0.80-0.90	0.8 - 0.9	0.40-0.50	1.50-1.60	0.15-0.30	0.60-0.65	0.90-0.95	0.50-0.60	1.10-1.15
Date Sampled					21/09/2012	17/09/2012	17/09/2012	18/09/2012	18/09/2012	18/09/2012	21/09/2012	21/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	18/09/2012	19/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012
Time Taken					1115	1230	1450	1525	1000	1705	1100	1110	1115	1150	1330	1443	1100	1110	1515	None Supplied	0900	1000	0940	1255	1305	1640	1700
Temperature on receipt at laboratory (°C)				Screening criteria	6.6	6.3	6.3	6.3	6.3	6.3	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1 %)																							
Dibutyl phthalate	mg/kg	0.2	MCERTS	15000	-	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	< 0.2	< 0.2	-	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	nc	-	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	1.3	< 0.3	-	< 0.3
Fluoranthene	mg/kg	0.2	MCERTS	22600	-	-	-	-	-	-	-	-	-	-	0.3	-	3.2	-	0.6	-	-	0.5	-	25	< 0.2	-	< 0.2
Pyrene	mg/kg	0.2	ISO 17025	54200	-	-	-	-	-	-	-	-	-	-	0.2	-	2.9	-	0.6	-	-	0.5	-	20	< 0.2	-	0.5
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	940000	-	-	-	-	-	-	-	-	-	-	< 0.3	-	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	< 0.3	-	< 0.3
Benzo(a)anthracene	mg/kg	0.2	MCERTS	90	-	-	-	-	-	-	-	-	-	-	< 0.2	-	1.7	-	0.3	-	-	0.4	-	17	< 0.2	-	0.3
Chrysene	mg/kg	0.05	ISO 17025	137	-	-	-	-	-	-	-	-	-	-	< 0.1	-	1.7	-	0.3	-	-	0.3	-	14	< 0.1	-	0.3
Benzo(b)fluoranthene	mg/kg	0.1	ISO 17025	100	-	-	-	-	-	-	-	-	-	-	< 0.1	-	1.5	-	0.4	-	-	0.3	-	19	< 0.1	-	0.3
Benzo(k)fluoranthene	mg/kg	0.2	ISO 17025	141	-	-	-	-	-	-	-	-	-	-	< 0.2	-	0.8	-	< 0.2	-	-	< 0.2	-	11	< 0.2	-	< 0.2
Benzo(a)pyrene	mg/kg	0.1	MCERTS	14	-	-	-	-	-	-	-	-	-	-	< 0.1	-	1.5	-	0.2	-	-	0.3	-	18	< 0.1	-	0.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	ISO 17025	60	-	-	-	-	-	-	-	-	-	-	< 0.2	-	0.8	-	< 0.2	-	-	< 0.2	-	9.6	< 0.2	-	< 0.2
Dibenz(a,h)anthracene	mg/kg	0.2	ISO 17025	13	-	-	-	-	-	-	-	-	-	-	< 0.2	-	< 0.2	-	< 0.2	-	-	< 0.2	-	1.6	< 0.2	-	< 0.2
Benzo(ghi)perylene	mg/kg	0.05	ISO 17025	654	-	-	-	-	-	-	-	-	-	-	< 0.1	-	0.9	-	< 0.1	-	-	< 0.1	-	9.6	< 0.1	-	< 0.1
				-																							
SVOCs TICs				-																							
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	hexamethyl- □	-	benz[e]aceph enanthrylene □	-	Benzo[Homoandrost ane, (5.alpha.,13.a	-	-	Octadecenam ide, (Z)- □	-	Benzo[e]pyre ne □	Hydroxytolue ne □	-	Homoandrost ane, (5.alpha.,13.a
SVOC % Match	mg/kg	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	93	-	97	-	97	-	-	97	-	99	96	-	99
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	Pyrene, 1- methyl- □	-	1- Hexadecanol, 2-methyl- □	-	-	Homoandrost ane, (5.alpha.,13.a lpha.)- □	-	Chrysene, 2- methyl- □	-	Borane, 2,3- dimethyl-2- butyl- (dimer) □	
SVOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	96	-	92	-	-	97	-	98	0	-	92
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	Naphthalene, 1,6,7- trimethyl- □	-	0	-	-	Decahydro-8a ethyl-1,1,4a,6 tetramethylna phthalene □	-	Chrysene, 1- methyl- □	0	-	Decahydro-8a ethyl-1,1,4a,6 tetramethylna phthalene □
SVOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	95	-	0	-	-	97	-	98	0	-	91
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	Cyclodecacycl ododecene, 1,2,3,4,5,6,7, 8,9,10,11,12, 13,14,15,16,1	-	0	-	-	Naphthalene, 2,3-dimethyl- □	-	Naphthalene, 1-methyl- □	0	-	Benzisothiazole, 3- (hexahydro-1H-azepin-1-
SVOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	95	-	0	-	-	94	-	97	0	-	91
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	Benzo[e]pyre ne □	-	0	-	-	Tetradecane □	-	Pyrene, 1- methyl- □	0	-	Naphthalene, decahydro-1,4a-dimethyl- 7-(1-
SVOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	94	-	0	-	-	93	-	97	0	-	91
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	Cyclopropa[1] phenanthrene	-	0	-	-	11,13- Dimethyl-12- tetradecen-1-	-	1,4-dimethyl- □	0	-	0
SVOC % Match	%	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	93	-	0	-	-	93	-	96	0	-	0
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	Cyclotrisiloxa ne, hexamethyl-	-	0	-	-	1H-Indene, 5- butyl-6- hexyloctahydr	-	Dibenzothiophene □	0	-	0
SVOC % Match	mg/kg	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	93	-	0	-	-	93	-	96	0	-	0
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	-	1,2- Benzisothiazole, 91	-	1-methyl- □	0	-	0
SVOC % Match	mg/kg	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	-	91	-	96	0	-	0
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	-	Androstane □	-	tho[2,1- d]thiophene □	0	-	0
SVOC % Match	mg/kg	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	-	91	-	96	0	-	0
SVOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	-	carboxamide, oxime, N-(2-	-	□	0	-	0
SVOC % Match	mg/kg	N/A	NONE	nc	-	-	-	-	-	-	-	-	-	-	0	-	0	-	0	-	-	91	-	95	0	-	0
PCBs by GC-MS																											
PCB Congener 28	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 52	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 101	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 118	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 138	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 153	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 180	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
Total PCBs	mg/kg	0.3	NONE	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.30	-	-
PCBs - WHO 12 Congeners																											
PCB Congener 077	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 081	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 105	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 114	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 118	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 123	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 126	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 156	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 157	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-
PCB Congener 167	mg/kg	0.02	NONE	nc	-	-	-	-</																			

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2		
				Area	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1		
Lab Sample Number					227920	227644	227649	227663	227666	227672	227918	227919	227642	227643	227645	227646	227647	227648	227662	227679	227664	227665	227667	227668	227669	227670	227671
Sample Reference					TP1213	WS1223	BH1227	TP1212	WS1222	TP1214	TP1213	TP1213	WS1223	WS1223	WS1224	WS1224	BH1227	BH1227	TP1212	Duplicate (TP1212)	WS1222	WS1222	TP1211	TP1211	TP1211	TP1214	TP1214
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					1.30-1.40	1.50-1.60	2.00-2.20	1.00-1.10	2.00-2.10	1.15-1.25	0.30	0.90	0.30-0.40	0.80-0.90	0.80-0.90	2.80-3.00	0.40-0.50	1.00-1.20	0.80-0.90	0.8 - 0.9	0.40-0.50	1.50-1.60	0.15-0.30	0.60-0.65	0.90-0.95	0.50-0.60	1.10-1.15
Date Sampled					21/09/2012	17/09/2012	17/09/2012	18/09/2012	18/09/2012	18/09/2012	21/09/2012	21/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	18/09/2012	19/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012
Time Taken					1115	1230	1450	1525	1000	1705	1100	1110	1115	1150	1330	1443	1100	1110	1515	None Supplied	0900	1000	0940	1255	1305	1640	1700
Temperature on receipt at laboratory (°C)				Screening criteria	6.6	6.3	6.3	6.3	6.3	6.3	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1 %)																							
PCB Congener 169	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-
PCB Congener 189	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCB (WHO12)	mg/kg	0.3	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organochlorine Pesticides (OCP)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	mg/kg	0.01	NONE	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Alpha-BHC(Lindane)	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Beta-BHC(Lindane)	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Chlordane (sum of cis & trans isomers)	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
DDD	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
DDE	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
DDT	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Dieldrin	mg/kg	0.01	NONE	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Endosulphan I	mg/kg	0.01	NONE	2310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Endosulphan II	mg/kg	0.01	NONE	2570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Endosulphan Sulphate	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Endrin	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Gamma-BHC	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Heptachlor	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Heptachlor epoxide	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Hexachlorobenzene	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Hexachlorocyclohexane	mg/kg	0.01	NONE	14000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
pp-Methoxychlor	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Propyzamide	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Organophosphorus Pesticides (OPP)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos methyl	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Diazinon	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Dichlorvos	mg/kg	0.01	NONE	842	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Dimethoate	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Etion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Fenitrothion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Malathion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Mevinphos	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Parathion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Pirimiphos methyl	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Organonitrogen Pesticides (ONP)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	mg/kg	0.01	NONE	733	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Simazine	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Trietazine	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Phenyl Urea Pesticides					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benazolin	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Bromoxynil	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Carbazole	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Chlorotoluron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Clopyralid	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Biblubenzuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Dicamb	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Diclofop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Diuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Flamprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Fenoprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Fluometuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Linuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Loxynil	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
MCPB	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Methiocarb	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Monuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Picloram	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Pentachlorophenol	mg/kg	0.01	NONE	1220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propanil	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Siduron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-
Tebuthiuron	mg/kg	0.01	NONE																								

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2
				Area	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1
Lab Sample Number					227920	227644	227649	227663	227666	227672	227918	227919	227642	227643	227645	227646	227647	227648	227662	227679	227664	227665	227667	227668	227669	227670	227671
Sample Reference					TP1213	WS1223	BH1227	TP1212	WS1222	TP1214	TP1213	TP1213	WS1223	WS1223	WS1224	WS1224	BH1227	BH1227	TP1212	Duplicate (TP1212)	WS1222	WS1222	TP1211	TP1211	TP1211	TP1214	TP1214
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					1.30-1.40	1.50-1.60	2.00-2.20	1.00-1.10	2.00-2.10	1.15-1.25	0.30	0.90	0.30-0.40	0.80-0.90	0.80-0.90	2.80-3.00	0.40-0.50	1.00-1.20	0.80-0.90	0.8 - 0.9	0.40-0.50	1.50-1.60	0.15-0.30	0.60-0.65	0.90-0.95	0.50-0.60	1.10-1.15
Date Sampled					21/09/2012	17/09/2012	17/09/2012	18/09/2012	18/09/2012	18/09/2012	21/09/2012	21/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	17/09/2012	18/09/2012	19/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012
Time Taken					1115	1230	1450	1525	1000	1705	1100	1110	1115	1150	1330	1443	1100	1110	1515	None Supplied	0900	1000	0940	1255	1305	1640	1700
Temperature on receipt at laboratory (°C)				Screening criteria	6.6	6.3	6.3	6.3	6.3	6.3	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1%)																							
Ethanol	µg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
Methanol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
n-butanol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
Propan-2-ol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
Propyl alcohol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
Ethylene Glycol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dioxins and Furans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	-	-	-
Octachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Octachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Total Non-2,3,7,8-Heptachlorodibenzo-p-dioxins	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Total Non-2,3,7,8-Heptachlorodibenzofurans	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Total Non-2,3,7,8-Hexachlorodibenzo-p-dioxins	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Total Non-2,3,7,8-Hexachlorodibenzofurans	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Total Non-2,3,7,8-Pentachlorodibenzo-p-dioxins	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Total Non-2,3,7,8-Pentachlorodibenzofurans	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Total Non-2,3,7,8-Tetrachlorodibenzo-p-dioxins	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
Total Non-2,3,7,8-Tetrachlorodibenzofurans	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
				nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glycols	mg/kg	10	NONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Glycol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
Propylene Glycol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
Triethylene Glycol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
1,3 Butanediol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
1,3 Propanediol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
1,4 Butanediol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-
Diethylene Glycol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-

				Tranche Area	Tranche 2 Area 2	Tranche 2 Area 2	Tranche 2 Area 2	Tranche 2 Area 2	Tranche 2 Area 2	Tranche 2 Area 2
Lab Sample Number					227902	227661	227899	227901	227659	227660
Sample Reference					TP1210	WS1221	TP1210	TP1210	WS1221	WS1221
Material type					LC	LC	MG	MG	MG	MG
Depth (m)					1.90	2.00-2.10	0.10-0.30	1.30	0.00-1.00	1.50-1.60
Date Sampled					20/09/2012	18/09/2012	20/09/2012	20/09/2012	18/09/2012	18/09/2012
Time Taken					1510	1230	1430	1330	1130	1155
Temperature on receipt at laboratory (°C)					6.6	6.3	6.6	6.6	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	Screening criteria (commercial 1%)						
Stone Content	%	0.1	NONE	nc	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	nc	20	18	2.8	9.2	5.4	12
Total mass of sample received	kg	0.001	NONE	nc	0.99	1	1.5	1.4	1.4	1.5
Asbestos in Soil Screen	P/A	N/A	ISO 17025	nc	-	-	-	Absent	Absent	Absent
Asbestos Identification Name	Type	N/A	ISO 17025	nc	-	-	-	-	-	-
Asbestos Identification Name (Subcontracted)	Type	N/A	ISO 17025	nc	-	-	-	-	-	-
Asbestos Quantification (Subcontracted)	%	0.01	ISO 17025	nc	-	-	-	-	-	-
General Inorganics										
pH	pH Units	N/A	MCERTS	nc	8.1	7.5	9	9	10.5	9
Total Cyanide	mg/kg	1	MCERTS	16200	< 1	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	1	NONE	nc	-	-	-	-	-	-
Free Cyanide	mg/kg	1	NONE	nc	-	-	-	-	-	-
Thiocyanate as SCN	mg/kg	5	NONE	nc	-	-	-	-	-	-
Water Soluble Sulphate as SO ₄ (2:1)	pH	0.0025	MCERTS	nc	0.56	5.1	0.047	0.17	0.64	1.3
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	nc	560	5100	47	170	640	1300
Sulphide	mg/kg	1	MCERTS	nc	-	-	-	-	-	1700
Water Soluble Chloride (2:1)	mg/kg	5	MCERTS	nc	-	-	-	-	-	42
Elemental Sulphur	mg/kg	20	NONE	nc	-	-	-	-	-	400
Ammoniacal Nitrogen as N	mg/kg	5	MCERTS	nc	-	-	-	-	-	-
Ammonium as NH ₄	mg/kg	5	MCERTS	nc	-	-	-	-	-	5.7
Total Organic Carbon (TOC)	%	0.1	MCERTS	nc	0.1	0.2	< 0.1	4	3.6	1.5
Loss on Ignition @ 450°C	%	0.2	MCERTS	nc	5.2	5.1	1.1	7	5.6	4.5
Phenols by HPLC										
Catechol	µg/kg	1	NONE	nc	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Resorcinol	µg/kg	1	NONE	nc	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butyl Phenols	µg/kg	1	NONE	nc	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cresols	µg/kg	1	NONE	nc	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthols	µg/kg	1	NONE	nc	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Phenol	µg/kg	0.1	ISO 17025	3200	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Trimethylphenol	µg/kg	1	NONE	nc	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols										
Total Phenols (monohydric)	mg/kg	2	MCERTS	nc	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols (HPLC)	mg/kg	7	NONE	nc	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0
Speciated PAHs										
Naphthalene	mg/kg	0.05	MCERTS	204	< 0.05	< 0.05	< 0.05	2.4	0.68	0.21
Acenaphthylene	mg/kg	0.2	MCERTS	84300	< 0.20	< 0.20	< 0.20	6.5	2.2	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	84900	< 0.10	< 0.10	< 0.10	8.3	1.6	< 0.10
Fluorene	mg/kg	0.2	MCERTS	63500	< 0.20	< 0.20	< 0.20	8	3.1	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	21900	< 0.20	< 0.20	< 0.20	76	18	0.51
Anthracene	mg/kg	0.1	MCERTS	525000	< 0.10	< 0.10	< 0.10	24	5.2	0.21
Fluoranthene	mg/kg	0.2	MCERTS	22600	< 0.20	< 0.20	< 0.20	180	0.97	0.56
Pyrene	mg/kg	0.2	MCERTS	54200	< 0.20	< 0.20	< 0.20	160	24	0.71
Benzo(a)anthracene	mg/kg	0.2	MCERTS	90	< 0.20	< 0.20	< 0.20	97	13	0.3
Chrysene	mg/kg	0.05	MCERTS	137	< 0.05	< 0.05	< 0.05	74	12	0.34
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	100	< 0.10	< 0.10	< 0.10	140	21	0.52
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	141	< 0.20	< 0.20	< 0.20	35	5.6	< 0.20
Benzo(a)pyrene	mg/kg	0.1	MCERTS	14	< 0.10	< 0.10	< 0.10	96	15	0.34
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	60	< 0.20	< 0.20	< 0.20	47	6.8	< 0.20
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	13	< 0.20	< 0.20	< 0.20	7.8	0.95	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	664	< 0.05	< 0.05	< 0.05	56	7.3	0.25
Coronene	mg/kg	0.05	NONE	nc	< 0.05	< 0.05	< 0.05	18	4.2	< 0.05
Total PAH										
Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	nc	-	-	-	-	-	-
Total WAC-17 PAHs	mg/kg	1.6	NONE	nc	< 1.6	< 1.6	5.8	1000	170	4
Heavy Metals / Metalloids										
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	7442	< 1.0	2.3	< 1.0	< 1.0	2	2.4
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	640	11	11	5	9.8	9	11
Barium (aqua regia extractable)	mg/kg	1	MCERTS	22200	50	42	470	110	300	240
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	420	1.6	1	0.2	0.9	0.5	4.8
Boron (water soluble)	mg/kg	0.2	MCERTS	192000	1.5	1.7	< 0.2	1.2	0.6	2.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	230	< 0.2	< 0.2	0.8	0.2	0.6	0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	35	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30400	53	33	6.9	34	18	34
Copper (aqua regia extractable)	mg/kg	1	MCERTS	71700	25	24	32	22	15	33
Lead (aqua regia extractable)	mg/kg	2	MCERTS	7300	17	14	30	280	60	120
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	3600	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	1800	46	33	7.4	15	13	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	13000	1.1	< 1.0	< 1.0	< 1.0	1.5	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	3160	83	47	9.2	44	28	100
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	662000	85	78	120	93	140	130

Zone BNL 2012 GI

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 2	Area 2	Area 2	Area 2	Area 2	Area 2	
Lab Sample Number					227902	227661	227899		227901	227659	227660
Sample Reference					TP1210	WS1221		TP1210	TP1210	WS1221	WS1221
Material type					LC	LC		MG	MG	MG	MG
Depth (m)					1.90	2.00-2.10		0.10-0.30	1.30	0.00-1.00	1.50-1.60
Date Sampled					20/09/2012	18/09/2012		20/09/2012	20/09/2012	18/09/2012	18/09/2012
Time Taken					1510	1230		1430	1330	1130	1155
Temperature on receipt at laboratory (°C)											
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	Screening criteria (commercial 1%)	6.6	6.3		6.6	6.6	6.3	6.3
Monooaromatics				-							
Benzene	µg/kg	1	MCERTS	28	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	870	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	518	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	575	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	480	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	7900	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons				-							
Petroleum Range Organics (C6 - C10)	mg/kg	0.1	NONE	nc	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
				-							
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	3380	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	8250	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	2130	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	10300	< 1.0	< 1.0		< 1.0	< 1.0	2.5	2
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	60800	< 2.0	< 2.0		< 2.0	18	140	160
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	673000	< 8.0	< 8.0		< 8.0	75	410	440
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	673000	< 8.0	< 8.0		< 8.0	520	780	440
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	nc	< 10	< 10		< 10	620	1300	1000
				-							
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	27700	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	59000	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	3670	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	16900	< 1.0	< 1.0		< 1.0	3	10	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	36200	< 2.0	< 2.0		< 2.0	40	100	52
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	26700	< 10	< 10		< 10	530	360	250
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	28400	< 10	< 10		< 10	1900	870	260
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	nc	< 10	< 10		< 10	2500	1300	570
				-							
TPH (C10 - C25)	mg/kg	10	NONE	nc	< 10	< 10		< 10	1000	1200	1200
TPH (C25 - C40)	mg/kg	10	NONE	nc	-	-		-	-	-	-
				-							
VOCs				-							
Chloromethane	µg/kg	4	ISO 17025	1000	-	< 4.0		-	< 4.0	-	< 4.0
Chloroethane	µg/kg	2	ISO 17025	960000	-	< 2.0		-	< 2.0	-	< 2.0
Bromomethane	µg/kg	6	ISO 17025	nc	-	< 6.0		-	< 6.0	-	< 6.0
Vinyl Chloride	µg/kg	24	ISO 17025	630	-	< 24		-	< 24	-	< 24
Trichlorofluoromethane	µg/kg	5	ISO 17025	nc	-	< 5.0		-	< 5.0	-	< 5.0
1,1-dichloroethene	µg/kg	7	MCERTS	26000	-	< 7.0		-	< 7.0	-	< 7.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	7	ISO 17025	nc	-	< 7.0		-	< 7.0	-	< 7.0
Cis-1,2-dichloroethene	µg/kg	7	MCERTS	14000	-	< 7.0		-	< 7.0	-	< 7.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	nc	-	< 1.0		-	< 1.0	-	< 1.0
1,1-dichloroethene	µg/kg	6	MCERTS	280000	-	< 6.0		-	< 6.0	-	< 6.0
2,2-Dichloropropane	µg/kg	6	NONE	nc	-	< 6.0		-	< 6.0	-	< 6.0
Trichloromethane	µg/kg	7	MCERTS	107000	-	< 7.0		-	< 7.0	-	< 7.0
1,1,1-Trichloroethane	µg/kg	7	MCERTS	700000	-	< 7.0		-	< 7.0	-	< 7.0
1,2-dichloroethane	µg/kg	4	MCERTS	700	-	< 4.0		-	< 4.0	-	< 4.0
1,1-Dichloropropane	µg/kg	7	NONE	nc	-	< 7.0		-	< 7.0	-	< 7.0
Trans-1,2-dichloroethene	µg/kg	7	MCERTS	22000	-	< 7.0		-	< 7.0	-	< 7.0
Benzene	µg/kg	1	MCERTS	nc	-	< 1.0		-	< 1.0	-	< 1.0
Tetrachloromethane	µg/kg	7	MCERTS	3000	-	< 7.0		-	< 7.0	-	< 7.0
1,2-dichloropropane	µg/kg	6	MCERTS	3300	-	< 6.0		-	< 6.0	-	< 6.0
Trichloroethene	µg/kg	6	MCERTS	12000	-	< 6.0		-	< 6.0	-	< 6.0
Dibromomethane	µg/kg	7	MCERTS	nc	-	< 7.0		-	< 7.0	-	< 7.0
Bromodichloromethane	µg/kg	7	NONE	2100	-	< 7.0		-	< 7.0	-	< 7.0
Cis-1,3-dichloropropane	µg/kg	7	ISO 17025	nc	-	< 7.0		-	< 7.0	-	< 7.0
Trans-1,3-dichloropropane	µg/kg	8	ISO 17025	nc	-	< 8.0		-	< 8.0	-	< 8.0
Toluene	µg/kg	1	MCERTS	nc	-	< 1.0		-	< 1.0	-	< 1.0
1,1,2-Trichloroethene	µg/kg	5	MCERTS	94000	-	< 5.0		-	< 5.0	-	< 5.0
1,3-Dichloropropane	µg/kg	8	ISO 17025	nc	-	< 8.0		-	< 8.0	-	< 8.0
Dibromochloromethane	µg/kg	2	ISO 17025	nc	-	< 2.0		-	< 2.0	-	< 2.0
Tetrachloroethene	µg/kg	8	MCERTS	131000	-	< 8.0		-	< 8.0	-	< 8.0
1,2-Dibromomethane	µg/kg	3	ISO 17025	nc	-	< 3.0		-	< 3.0	-	< 3.0
Chlorobenzene	µg/kg	7	MCERTS	59000	-	< 7.0		-	< 7.0	-	< 7.0
1,1,1,2-Tetrachloroethane	µg/kg	4	MCERTS	115000	-	< 4.0		-	< 4.0	-	< 4.0
Ethylbenzene	µg/kg	1	MCERTS	nc	-	< 1.0		-	< 1.0	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	nc	-	< 1.0		-	< 1.0	-	< 1.0
Styrene	µg/kg	5	MCERTS	3300000	-	< 5.0		-	< 5.0	-	< 5.0
Trifluoromethane	µg/kg	7	MCERTS	nc	-	< 7.0		-	< 7.0	-	< 7.0
o-xylene	µg/kg	1	MCERTS	nc	-	< 1.0		-	< 1.0	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	3	MCERTS	284000	-	< 3.0		-	< 3.0	-	< 3.0
Isopropylbenzene	µg/kg	7	NONE	1400000	-	< 7.0		-	< 7.0	-	< 7.0
Bromobenzene	µg/kg	11	MCERTS	97000	-	< 11		-	< 11	-	< 11
N-Propylbenzene	µg/kg	5	ISO 17025	4100000	-	< 5.0		-	< 5.0	-	< 5.0
2-Chlorotoluene	µg/kg	11	NONE	nc	-	< 11		-	< 11	-	< 11
4-Chlorotoluene	µg/kg	11	NONE	nc	-	< 11		-	< 11	-	< 11

				Tranche	Tranche 1	Tranche 1	Tranche 1	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	
Lab Sample Number					220415	220724	220727	228510	228067	228068	227678	219835	219836	221279	220294	220413	220414	220722	220723	220725	220726	228509	228063	228064	228065	228066	227676	227677
Sample Reference					TP1201	TP1203	TP1204	TP1229	TP1229	TP1229	WS1218A	BHNRA1	BHNRA1	BH NRA1	TPNRA3	TP1201	TP1201	TP1203	TP1203	TP1204	TP1204	TP1229	TP1229	TP1229	TP1229	TP1229	WS1218A	WS1218A
Material type					LC	LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					2.10-2.20	1.80-2.00	1.60-1.75	3.00	1.80	2.30	2.00-2.10	0.50	1.50	Slurry sample	2.40	1.10-1.20	1.60-1.70	0.80-0.90	1.20-1.40	0.20-0.30	1.20-1.40	2.20	0.20-0.30	1.70	2.00	1.70	1.10-1.20	1.60-1.70
Date Sampled					09/07/2012	10/07/2012	10/07/2012	25/09/2012	21/09/2012	21/09/2012	19/09/2012	04/07/2012	05/07/2012	18/07/2012	06/07/2012	09/07/2012	09/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012	25/09/2012	21/09/2012	21/09/2012	21/09/2012	21/09/2012	19/09/2012	19/09/2012
Time Taken					1245	None Supplied	None Supplied	1440	None Supplied	1320	1445	1445	0900	None Supplied	1515	1245	1245	None Supplied	None Supplied	None Supplied	None Supplied	1430	None Supplied	1230	1235	1320	1515	1440
Temperature on receipt at laboratory (°C)				Screening criteria	7.2	6.8	6.8	4.5	4.5	4.5	6.3	8.2	8.2	4.9	7.8	7.2	7.2	6.8	6.8	6.8	6.8	4.5	4.5	4.5	4.5	4.5	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1%)																								
Stone Content	%	0.1	NONE	nc	< 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	59	24	32	55	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	nc	22	20	20	20	17	17	19	9.9	23	25	18	26	16	7.2	16	5.1	11	19	6.7	23	24	23	7.4	10
Total mass of sample received	kg	0.001	NONE	nc	1.1	1.4	1.2	0.67	1.1	1.1	1	1.3	1.3	1.5	1.5	0.94	1.4	1.4	1	1.4	1.5	0.77	1.3	0.95	1.3	1.3	1.4	1.6
Asbestos in Soil Screen	P/A	N/A	ISO 17025	nc	-	-	-	Absent	-	-	-	Present	Absent		Absent	Absent	Absent	Present	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Asbestos Identification Name	Type	N/A	ISO 17025	nc		-	-				-	Chrysotile - Soil / Loose Aggregates	N/A					Chrysotile - Soil / Loose Aggregates	-	-	-					-	-	
Asbestos Identification Name (Subcontracted)	Type	N/A	ISO 17025	nc		-	-					ND	N/A					Chrysotile - Free Fibres	-	-	-							
Asbestos Quantification (Subcontracted)	%	0.001	ISO 17025	nc		-	-					< 0.001	N/A					0.006	-	-	-							
General Inorganics				-																								
pH	pH Units	N/A	MCERTS	nc	8.4	7.7	9.1	7.6	7.8	7.8	8.4	10.7	7	8.2	7.7	8	7.9	8.3	5.6	11.9	10.8	8.3	11.6	7.9	7.9	8.6	8.6	7.9
Total Cyanide	mg/kg	1	MCERTS	16200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	14	< 1	1	< 1
Complex Cyanide	mg/kg	1	NONE	nc	-	-	-								< 1	N/A	-	< 1	-	-	-	-						
Free Cyanide	mg/kg	1	NONE	nc	-	-	-								< 1	N/A	-	< 1	-	-	-							
Thiocyanate as SCN	mg/kg	5	NONE	nc	-	-	-								< 5.0	N/A	-	< 5.0	-	-	-	-						
Water Soluble Sulphate as SO ₄ (2:1)	g/l	0.0025	MCERTS	nc	0.82	4.3	1.8	3.9	0.54	3.4	0.63	3.9	0.83	0.8	0.71	0.57	1.3	1.8	1.3	0.037	1.7	0.51	0.68	3.6	7.3	0.59	0.83	0.4
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	nc	820	4300	1800	3900	540	3400	630	3900	830	800	710	570	1300	1800	1300	37	1700	510	680	3600	7300	590	830	400
Sulphide	mg/kg	1	MCERTS	nc	-	-	-		-	-	-			35	N/A	-	16	-	-	-	-	-	-	-	34	330	-	74
Water Soluble Chloride (2:1)	mg/kg	5	MCERTS	nc	-	-	-		-	-	-			8.3	N/A	-	42	-	-	-	-	-	-	-	90	940	-	20
Elemental Sulphur	mg/kg	20	NONE	nc	-	-	-		-	-	-			< 20	N/A	-	30	-	-	-	-	-	-	-	230	1400	-	1500
Ammoniacal Nitrogen as N	mg/kg	5	MCERTS	nc										< 5.0														
Ammonium as NH ₄	mg/kg	5	MCERTS	nc	-	-	-		-	-	-			< 5.0	N/A	-	5.2	-	-	-	-	-	-	-	7.5	< 5.0	-	6.6
Total Organic Carbon (TOC)	%	0.1	MCERTS	nc	0.8	0.6	0.5	0.4	< 0.1	< 0.1	0.4	1.1	1.5	0.7	0.8	6.3	1.7	4	11	0.5	3.9	0.1	0.5	3.3	3.9	3.8	3.1	0.6
Loss on Ignition @ 450°C	%	0.2	MCERTS	nc	4.1	7.6	5.2	6	5.1	5.4	4.6	5.4	6.6	2.1	4.5	17	5	7.2	25	4.5	6.1	9.4	5.4	15	14	9.3	5.4	2.3
				-																								
Phenols by HPLC				nc																								
Catechol	µg/kg	1	NONE	nc	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	N/A	-	< 1.0	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Resorcinol	µg/kg	1	NONE	nc	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	N/A	-	< 1.0	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butyl Phenols	µg/kg	1	NONE	nc	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	N/A	-	< 1.0	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cresols	µg/kg	1	NONE	nc	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	N/A	-	< 1.0	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthols	µg/kg	1	NONE	nc	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	N/A	-	< 1.0	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Phenol	µg/kg	0.1	ISO 17025	3200	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A	-	< 0.1	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Trimethylphenol	µg/kg	1	NONE	nc	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	N/A	-	< 1.0	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		

				Tranche	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	
Lab Sample Number					220415	220724	220727	228510	228067	228068	227678	219835	219836	221279	220294	220413	220414	220722	220723	220725	220726	228509	228063	228064	228065	228066	227676	227677	
Sample Reference					TP1201	TP1203	TP1204	TP1229	TP1229	TP1229	WS1218A	BHNRA1	BHNRA1	BH NRA1	TPNRA3	TP1201	TP1201	TP1203	TP1203	TP1204	TP1204	TP1229	TP1229	TP1229	TP1229	TP1229	TP1229	WS1218A	WS1218A
Material type					LC	LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	
Depth (m)					2.10-2.20	1.80-2.00	1.60-1.75	3.00	1.80	2.30	2.00-2.10	0.50	1.50	Slurry sample	2.40	1.10-1.20	1.60-1.70	0.80-0.90	1.20-1.40	0.20-0.30	1.20-1.40	2.20	0.20-0.30	1.70	2.00	1.70	1.10-1.20	1.60-1.70	
Date Sampled					09/07/2012	10/07/2012	10/07/2012	25/09/2012	21/09/2012	21/09/2012	19/09/2012	04/07/2012	05/07/2012	18/07/2012	06/07/2012	09/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012	25/09/2012	21/09/2012	21/09/2012	21/09/2012	21/09/2012	19/09/2012	19/09/2012	
Time Taken					1245	None Supplied	None Supplied	1440	None Supplied	1320	1445	1445	0900	None Supplied	1515	1245	1245	None Supplied	None Supplied	None Supplied	None Supplied	1430	None Supplied	1230	1235	1320	1515	1440	
Temperature on receipt at laboratory (°C)				Screening criteria	7.2	6.8	6.8	4.5	4.5	4.5	6.3	8.2	8.2	4.9	7.8	7.2	7.2	6.8	6.8	6.8	6.8	4.5	4.5	4.5	4.5	4.5	6.3	6.3	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1%)																									
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	662000	73	75	72	81	75	70	82	96	85	79	80	120	72	110	170	150	110	68	85	370	190	130	95	43	
				-																									
Monoaromatics				-																									
Benzene	µg/kg	1	MCERTS	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	N/A	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	870	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	N/A	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	518	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	N/A	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/kg	1	MCERTS	575	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	N/A	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/kg	1	MCERTS	480	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	N/A	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	7900	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	N/A	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	
				-																									
Petroleum Hydrocarbons				-																									
Petroleum Range Organics (C6 - C10)	mg/kg	0.1	NONE	nc	< 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	
				-																									
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	3380	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	8250	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	2130	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	10300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	N/A	< 1.0	< 1.0	15	320	< 1.0	< 1.0	2	-	-	4.3	160	< 1.0	42	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	60800	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			< 2.0	N/A	560	190	320	7100	< 2.0	22	80	-	-	520	2900	32	1200	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	673000	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0			< 8.0	N/A	1100	270	880	14000	< 8.0	160	140	-	-	1900	4600	110	1800	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	673000	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0			53	N/A	400	110	890	6700	< 8.0	510	29	-	-	1900	1800	320	410	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10			53	N/A	2100	570	2100	28000	< 10	680	250	-	-	4300	9500	460	3400	
				-																									
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	27700	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	59000	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	3670	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	16900	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	N/A	< 1.0	< 1.0	24	82	< 1.0	< 1.0	< 1.0	-	-	3	11	< 1.0	2.5	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	36200	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			< 2.0	N/A	< 2.0	< 2.0	280	2700	6.7	83	24	-	-	180	980	39	240	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	26700	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	N/A	< 10	< 10	1500	6900	45	620	97	-	-	1100	2800	390	1000	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	28400	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	N/A	< 10	< 10	1700	3400	67	1300	45	-	-	740	920	1200	290	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	N/A	< 10	< 10	3500	13000	120	2000	170	-	-	2100	4700	1600	1600	
				-																									
TPH (C10 - C25)	mg/kg	10	NONE	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	260	22	30	830	1900	550	4000	36000	76	1300	340	-	-	4900	14000	690	4800	
TPH (C25 - C40)	mg/kg	10	NONE	nc	< 10	< 10	< 10					330	18	32	81	520	150	2000	5800	53	1900								
				-																									
VOCs				-																									
Chloromethane	µg/kg	4	ISO 17025	1000	-	-	-	-	-	< 4.0	< 4.0				N/A	-	< 1.0	-	< 4.0	-	-	< 4.0	-	-	-	< 4.0	-	< 4.0	
Chloroethane	µg/kg	2	ISO 17025	960000	-	-	-	-	-	< 2.0	< 2.0				N/A	-	< 30	-	< 2.0	-	-	< 2.0	-	-	-	< 2.0	-	< 2.0	
Bromomethane	µg/kg	6	ISO 17025	nc	-	-	-	-	-	< 6.0	< 6.0				N/A	-	< 80	-	< 6.0	-	-	< 6.0	-	-	-	< 6.0	-	< 6.0	
Vinyl Chloride	µg/kg	24	ISO 17025	630	-	-	-	-	-	< 24	< 24				N/A	-	< 1.0	-	< 24	-	-	< 24	-	-	-	< 24	-	< 24	
Trichlorofluoromethane	µg/kg	5	ISO 17025	nc	-	-	-	-	-	< 5.0	< 5.0				N/A	-	< 5.0	-	< 5.0	-	-	< 5.0	-	-	-	< 5.0	-	< 5.0	
1,1-dichloroethene	µg/kg	7	MCERTS	26000	-	-	-	-	-	< 7.0	< 7.0				N/A	-	< 1.0	-	< 7.0	-	-	< 7.0	-	-	-	< 7.0	-	< 7.0	
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	7	ISO 17025	nc	-	-	-	-	-	< 7.0	< 7.0				N/A	-	< 1.0	-	< 7.0	-	-	< 7.0	-	-	-	< 7.0	-	< 7.0	
Cis-1,2-dichloroethene	µg/kg	7	MCERTS	14000	-	-	-	-	-	< 7.0	< 7.0				N/A	-	< 1.0	-	< 7.0	-	-	< 7.0	-	-	-	< 7.0	-	< 7.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	nc	-	-</																							

				Tranche	Tranche 1	Tranche 1	Tranche 1	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3		
Lab Sample Number					220415	220724	220727	228510	228067	228068	227678	219835	219836	221279	220294	220413	220414	220722	220723	220725	220726	228509	228063	228064	228065	228066	227676	227677
Sample Reference					TP1201	TP1203	TP1204	TP1229	TP1229	TP1229	WS1218A	BHNRA1	BHNRA1	BH NRA1	TPNRA3	TP1201	TP1201	TP1203	TP1203	TP1204	TP1204	TP1229	TP1229	TP1229	TP1229	TP1229	WS1218A	WS1218A
Material type					LC	LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	
Depth (m)					2.10-2.20	1.80-2.00	1.60-1.75	3.00	1.80	2.30	2.00-2.10	0.50	1.50	Slurry sample	2.40	1.10-1.20	1.60-1.70	0.80-0.90	1.20-1.40	0.20-0.30	1.20-1.40	2.20	0.20-0.30	1.70	2.00	1.70	1.10-1.20	1.60-1.70
Date Sampled					09/07/2012	10/07/2012	10/07/2012	25/09/2012	21/09/2012	21/09/2012	19/09/2012	04/07/2012	05/07/2012	18/07/2012	06/07/2012	09/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012	25/09/2012	21/09/2012	21/09/2012	21/09/2012	21/09/2012	19/09/2012	19/09/2012
Time Taken					1245	None Supplied	None Supplied	1440	None Supplied	1320	1445	1445	0900	None Supplied	1515	1245	1245	None Supplied	None Supplied	None Supplied	None Supplied	1430	None Supplied	1230	1235	1320	1515	1440
Temperature on receipt at laboratory (°C)				Screening criteria	7.2	6.8	6.8	4.5	4.5	4.5	6.3	8.2	8.2	4.9	7.8	7.2	7.2	6.8	6.8	6.8	6.8	4.5	4.5	4.5	4.5	4.5	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1%)																								
2-Chlorotoluene	µg/kg	11	NONE	nc	-	-	-	-	-	< 11	< 11			N/A	-	< 1.0	-	< 11	-	-	-	< 11	-	-	-	< 11	-	< 11
4-Chlorotoluene	µg/kg	11	NONE	nc	-	-	-	-	-	< 11	< 11			N/A	-	< 1.0	-	< 11	-	-	-	< 11	-	-	-	< 11	-	< 11
1,3,5-Trimethylbenzene	µg/kg	4	ISO 17025	nc	-	-	-	-	-	< 4.0	< 4.0			N/A	-	< 1.0	-	< 4.0	-	-	-	< 4.0	-	-	-	< 4.0	-	< 4.0
Tert-Butylbenzene	µg/kg	4	NONE	nc	-	-	-	-	-	< 4.0	< 4.0			N/A	-	< 1.0	-	< 4.0	-	-	-	< 4.0	-	-	-	< 4.0	-	< 4.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	nc	-	-	-	-	-	< 5.0	< 5.0			N/A	-	< 1.0	-	< 5.0	-	-	-	< 5.0	-	-	-	< 5.0	-	< 5.0
Sec-Butylbenzene	µg/kg	5	NONE	nc	-	-	-	-	-	< 5.0	< 5.0			N/A	-	< 1.0	-	< 5.0	-	-	-	< 5.0	-	-	-	< 5.0	-	< 5.0
1,3-dichlorobenzene	µg/kg	7	ISO 17025	nc	-	-	-	-	-	< 7.0	< 7.0			N/A	-	< 1.0	-	< 7.0	-	-	-	< 7.0	-	-	-	< 7.0	-	< 7.0
P-Isopropyltoluene	µg/kg	16	ISO 17025	nc	-	-	-	-	-	< 16	< 16			N/A	-	< 1.0	-	< 16	-	-	-	< 16	-	-	-	< 16	-	< 16
1,2-dichlorobenzene	µg/kg	5	MCERTS	2140000	-	-	-	-	-	< 5.0	< 5.0			N/A	-	< 3.0	-	< 5.0	-	-	-	< 5.0	-	-	-	< 5.0	-	< 5.0
1,4-dichlorobenzene	µg/kg	8	MCERTS	nc	-	-	-	-	-	< 8.0	< 8.0			N/A	-	< 4.0	-	< 8.0	-	-	-	< 8.0	-	-	-	< 8.0	-	< 8.0
Butylbenzene	µg/kg	4	NONE	nc	-	-	-	-	-	< 4.0	< 4.0			N/A	-	< 1.0	-	< 4.0	-	-	-	< 4.0	-	-	-	< 4.0	-	< 4.0
1,2-Dibromo-3-chloropropane	µg/kg	7	ISO 17025	nc	-	-	-	-	-	< 7.0	< 7.0			N/A	-	< 30	-	< 7.0	-	-	-	< 7.0	-	-	-	< 7.0	-	< 7.0
1,2,4-Trichlorobenzene	µg/kg	9	MCERTS	nc	-	-	-	-	-	< 9.0	< 9.0			N/A	-	< 3.0	-	< 9.0	-	-	-	< 9.0	-	-	-	< 9.0	-	< 9.0
Hexachlorobutadiene	µg/kg	7	NONE	nc	-	-	-	-	-	< 7.0	< 7.0			N/A	-	< 4.0	-	< 7.0	-	-	-	< 7.0	-	-	-	< 7.0	-	< 7.0
1,2,3-Trichlorobenzene	µg/kg	10	NONE	108000	-	-	-	-	-	< 10	< 10			N/A	-	< 10	-	< 10	-	-	-	< 10	-	-	-	< 10	-	< 10
VOCs TICs Compound Name		N/A	NONE	nc	-	-	-	-	-	Detected	Detected			N/A	-	ND					Detected	-	-	-	Detected	-	Detected	
VOC % Match	%	N/A	NONE	nc	-	-	-	-	-	Detected	Detected			N/A	-	ND					Detected	-	-	-	Detected	-	Detected	
				-																								
SVOCs				-																								
Aniline	mg/kg	0.1	NONE	nc	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.05	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	3200	-	-	-	-	-	< 0.2	< 0.2	-	-	-	N/A	-	< 0.10	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	3587	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.10	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	nc	-	-	-	-	-	< 0.2	< 0.2	-	-	-	N/A	-	< 0.05	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	32	-	-	-	-	-	< 0.2	< 0.2	-	-	-	N/A	-	< 0.10	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	2140	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.05	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	4460	-	-	-	-	-	< 0.2	< 0.2	-	-	-	N/A	-	< 0.20	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	nc	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.05	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	nc	-	-	-	-	-	< 0.3	< 0.3	-	-	-	N/A	-	< 0.05	-	< 0.3	-	-	< 0.3	-	-	-	< 0.3	-	< 0.3
Hexachloroethane	mg/kg	0.3	MCERTS	22	-	-	-	-	-	< 0.3	< 0.3	-	-	-	N/A	-	< 0.05	-	< 0.3	-	-	< 0.3	-	-	-	< 0.3	-	< 0.3
Nitrobenzene	mg/kg	0.3	MCERTS	nc	-	-	-	-	-	< 0.3	< 0.3	-	-	-	N/A	-	< 0.10	-	< 0.3	-	-	< 0.3	-	-	-	< 0.3	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	nc	-	-	-	-	-	< 0.2	< 0.2	-	-	-	N/A	-	< 0.20	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	nc	-	-	-	-	-	< 0.2	< 0.2	-	-	-	N/A	-	< 0.05	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	nc	-	-	-	-	-	< 0.3	< 0.3	-	-	-	N/A	-	< 0.10	-	< 0.3	-	-	< 0.3	-	-	-	< 0.3	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	16000	-	-	-	-	-	< 0.3	< 0.3	-	-	-	N/A	-	< 0.10	-	< 0.3	-	-	< 0.3	-	-	-	< 0.3	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	nc	-	-	-	-	-	< 0.3	< 0.3	-	-	-	N/A	-	< 0.30	-	< 0.3	-	-	< 0.3	-	-	-	< 0.3	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	228	-	-	-	-	-	< 0.3	< 0.3	-	-	-	N/A	-	< 0.05	-	< 0.3	-	-	< 0.3	-	-	-	< 0.3	-	< 0.3
Naphthalene	mg/kg	0.1	ISO 17025	204	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.05	-	8.6	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	3470	-	-	-	-	-	< 0.3	< 0.3	-	-	-	N/A	-	< 0.10	-	< 0.3	-	-	< 0.3	-	-	-	< 0.3	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	nc	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.05	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	nc	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.05	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	nc	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.10	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	3880	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.10	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	nc	-	-	-	-	-	< 0.2	< 0.2	-	-	-	N/A	-	< 0.20	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	nc	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.05	-	16	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	390	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.10	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	nc	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.05	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	1900	-	-	-	-	-	< 0.1	< 0.1	-	-	-	N/A	-	< 0.20	-	< 0.1	-	-	< 0.1	-	-	-	< 0.1	-	< 0.1
Acenaphthylene	mg/kg	0.2	ISO 17025	nc	-	-	-	-	-	< 0.2	< 0.2	-	-	-	N/A	-	< 0.05	-	< 0.2	-	-	< 0.2	-	-	-	< 0.2	-	< 0.2
Acenaphthene	mg/kg	0.1	MCERTS	nc	-	-	-	-	-	< 0.1	< 0.1	-	-	-														

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				Tranche	Tranche 1	Tranche 1	Tranche 1	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 1	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	
Lab Sample Number					220415	220724	220727	228510	228067	228068	227678	219835	219836	221279	220294	220413	220414	220722	220723	220725	220726	228509	228063	228064	228065	228066	227676	227677
Sample Reference					TP1201	TP1203	TP1204	TP1229	TP1229	TP1229	WS1218A	BHNRA1	BHNRA1	BH NRA1	TPNRA3	TP1201	TP1201	TP1203	TP1203	TP1204	TP1204	TP1229	TP1229	TP1229	TP1229	TP1229	WS1218A	WS1218A
Material type					LC	LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					2.10-2.20	1.80-2.00	1.60-1.75	3.00	1.80	2.30	2.00-2.10	0.50	1.50	Slurry sample	2.40	1.10-1.20	1.60-1.70	0.80-0.90	1.20-1.40	0.20-0.30	1.20-1.40	2.20	0.20-0.30	1.70	2.00	1.70	1.10-1.20	1.60-1.70
Date Sampled					09/07/2012	10/07/2012	10/07/2012	25/09/2012	21/09/2012	21/09/2012	19/09/2012	04/07/2012	05/07/2012	18/07/2012	06/07/2012	09/07/2012	09/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012	25/09/2012	21/09/2012	21/09/2012	21/09/2012	21/09/2012	19/09/2012	19/09/2012
Time Taken					1245	None Supplied	None Supplied	1440	None Supplied	1320	1445	1445	0900	None Supplied	1515	1245	1245	None Supplied	None Supplied	None Supplied	None Supplied	1430	None Supplied	1230	1235	1320	1515	1440
Temperature on receipt at laboratory (°C)				Screening criteria	7.2	6.8	6.8	4.5	4.5	4.5	6.3	8.2	8.2	4.9	7.8	7.2	7.2	6.8	6.8	6.8	6.8	4.5	4.5	4.5	4.5	4.5	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1%)																								
Hexachlorobenzene	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Hexachlorocyclohexane	mg/kg	0.01	NONE	14000	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
pp-Methoxychlor	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Propyzamide	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Organophosphorus Pesticides (OPP)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos methyl	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Diazinon	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Dichlorvos	mg/kg	0.01	NONE	842	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Dimethoate	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Etion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Fenitrothion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Malathion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Mevinphos	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Parathion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Pirimiphos methyl	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Organonitrogen Pesticides (ONP)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Altrazine	mg/kg	0.01	NONE	733	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Simazine	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Trietazine	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Phenyl Urea Pesticides					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benazolin	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Bromoxynil	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Carbazole	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Chlorotoluron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Clopyralid	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Diblubenzuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Dicamb	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Diclofop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Diuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Flamprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Fenoprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Fuometuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Linuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Loxynil	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
MCPB	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Methiocarb	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Monuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Picloram	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Pentachlorophenol	mg/kg	0.01	NONE	1220	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propanil	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Siduron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Tebuthiuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Thidiazuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Triclopyr	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
2,4-DB	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Trifluralin					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenoxy Acetic Acid Herbicides					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Mecoprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
MCPA	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Dichlorprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
2,4-D	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Fenoprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
2,4,5-T	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Ethanol	µg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-
Methanol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-
n-butanol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-
Propan-2-ol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-
Propyl alcohol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-
Ethylene Glycol	mg/kg	10																										

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2		
				Area	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4		
Lab Sample Number					227905	227911	227912	227916	227917	227657	227903	227904	227906	227907	227908	227909	227910	227913	227914	227915	227655	227656	227680	227681	227682	227683
Sample Reference					TP1209	TP1206	TP1206	TP1207	TP1207	BH1226	TP1209	TP1209	TP1206	TP1206	TP1206	TP1206	TP1206	TP1207	TP1207	TP1207	BH1226	BH1226	TP1208	TP1208	TP1208	Duplicate (TP1208)
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					3.70-3.80	3.20-3.30	4.00-4.10	3.20	3.50	3.90-4.00	0.40-0.50	2.30-2.40	0.40-0.50	1.40-1.50	1.80-1.90	1.90-2.00	2.40-2.50	1.00	2.00	2.40	0.60-0.70	2.30-2.40	1.30-1.40	2.40-2.50	4.10-4.20	1.6 - 1.7
Date Sampled					20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	18/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	21/09/2012	18/09/2012	18/09/2012	19/09/2012	19/09/2012	18/09/2012	18/09/2012
Time Taken					0745	1210	1210	0905	0910	1040	0745	0745	None Supplied	1140	1200	1210	1210	0745	0845	0855	0920	1040	1055	1105	1150	None Supplied
Temperature on receipt at laboratory (°C)				Screening criteria (commercial 1 %)	6.6	6.6	6.6	6.6	6.6	6.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																							
Stone Content	%	0.1	NONE	nc	< 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
Moisture Content	%	N/A	NONE	nc	16	16	21	6.4	16	21	11	19	4.9	14	20	24	7.1	13	15	17	14	6.5	18	19	16	7.4
Total mass of sample received	kg	0.001	NONE	nc	1.2	1.1	0.89	1.4	1.1	1.3	1.3	1.4	1.1	1.2	1.3	1.4	1.6	1.2	1.2	1.2	1.2	1.3	1.1	1.2	1.6	1.4
Asbestos in Soil Screen	P/A	N/A	ISO 17025	nc	Absent	-	-	Absent	-	-	Absent	Absent	Absent	Present	Absent	Absent	Absent	Present	Absent	Absent	Absent	Absent	Absent	Absent	Absent	-
Asbestos Identification Name	Type	N/A	ISO 17025	nc	-	-	-	-	-	-	-	-	-	Chrysotile - Soil / Loose Aggregates	-	-	-	Chrysotile - Soil / Loose Aggregates	-	-	-	-	-	-	-	-
Asbestos Identification Name (Subcontracted)	Type	N/A	ISO 17025	nc										Amosite & Chrysotile - Free Fibres				Chrysotile - Free Fibres								
Asbestos Quantification (Subcontracted)	%	0.001	ISO 17025	nc									0.006					0.005								
General Inorganics				-																						
pH	pH Units	N/A	MCERTS	nc	8.1	8.4	8.1	8	8.1	8.3	8.9	8.2	8.4	7.9	7.8	7.8	8.3	9.3	9.2	7.9	8.8	8.7	9	8.6	10	9.2
Total Cyanide	mg/kg	1	MCERTS	16200	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	1	20	< 1	< 1	120	2	< 1	< 1	< 1	< 1	< 1	6	8	< 1
Complex Cyanide	mg/kg	1	NONE	nc																						
Free Cyanide	mg/kg	1	NONE	nc																						
Thiocyanate as SCN	mg/kg	5	NONE	nc																						
Water Soluble Sulphate as SO ₄ (2:1)	g/l	0.0025	MCERTS	nc	0.26	0.77	0.96	0.58	0.48	1.3	2.1	0.59	1.2	3.7	2.2	3.8	1.8	2.4	1	0.87	0.89	0.43	1.8	3.4	3	1.1
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	nc	260	770	960	580	480	1300	2100	590	1200	3700	2200	3800	1800	2400	1000	870	890	430	1800	3400	3000	1100
Sulphide	mg/kg	1	MCERTS	nc	-	-	-	-	-	-	-	-	-	24	6.6	100	1.6	45	15	-	-	2.1	24	-	-	-
Water Soluble Chloride (2:1)	mg/kg	5	MCERTS	nc	-	-	-	-	-	-	-	-	82	33	69	37	110	14	39	-	-	46	130	-	-	-
Elemental Sulphur	mg/kg	20	NONE	nc	-	-	-	-	-	-	-	< 20	< 20	< 20	1400	< 20	1400	25	-	-	-	< 20	< 20	-	-	-
Ammoniacal Nitrogen as N	mg/kg	5	MCERTS	nc																						
Ammonium as NH ₄	mg/kg	5	MCERTS	nc	-	-	-	-	-	-	-	< 5.0	< 5.0	< 5.0	11	29	230	6.9	-	-	-	< 5.0	8.3	-	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	nc	0.2	< 0.1	0.2	< 0.1	< 0.1	0.3	0.7	< 0.1	1.4	0.4	2.5	0.4	0.6	0.7	0.9	0.8	0.5	< 0.1	1	0.6	1	0.3
Loss on Ignition @ 450°C	%	0.2	MCERTS	nc	4.5	5.3	5.7	1.8	6.3	4.3	4.6	4.7	5.2	4.4	6.7	8.6	2.5	4.6	4.5	4.9	2.7	2.1	4.3	4.6	4.1	3
				-																						
Phenols by HPLC				nc																						
Catechol	µg/kg	1	NONE	nc	< 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
Resorcinol	µg/kg	1	NONE	nc	< 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
Butyl Phenols	µg/kg	1	NONE	nc	< 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
Cresols	µg/kg	1	NONE	nc	< 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
Naphthols	µg/kg	1	NONE	nc	< 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
Phenol	µg/kg	0.1	ISO 17025	3200	< 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
Trimethylphenol	µg/kg	1	NONE	nc	< 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
				-																						
Total Phenols				nc																						
Total Phenols (monohydric)	mg/kg	2	MCERTS	nc	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols (HPLC)	µg/kg	7	NONE	nc	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0
				-																						
Speciated PAHs				nc																						
Naphthalene	mg/kg	0.05	MCERTS	204	< 0.05	2	< 0.05	< 0.05	< 0.05	< 0.05	0.49	0.37	0.94	6.1	0.83	< 0.05	93	5.4	1.5	< 0.05	< 0.05	< 0.05	0.77	0.59	0.6	0.56
Acenaphthylene	mg/kg	0.2	MCERTS	84300	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.24	0.85	3.2	0.6	< 0.20	59	1.3	0.66	< 0.20	< 0.20	< 0.20	0.24	0.76	0.47	0.59
Acenaphthene	mg/kg	0.1	MCERTS	84900	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.2	0.19	1.1	1.8	0.49	< 0.10	16	0.66	1.3	< 0.10	< 0.10	< 0.10	0.28	0.4	0.41	1.4
Fluorene	mg/kg	0.2	MCERTS	63500	< 0.20	0.27	< 0.20	< 0.20	< 0.20	< 0.20	0.27	< 0.20	1.5	2	1.6	< 0.20	140	1.7	2	< 0.20	< 0.20	< 0.20	0.37	0.64	0.45	1.3
Phenanthrene	mg/kg	0.2	MCERTS	21900	0.2	0.8	< 0.20	< 0.20	< 0.20	< 0.20	1.8	2.5	16	210	4.3	< 0.20	510	11	13	< 0.20	< 0.20	< 0.20	3	5.5	4.2	10
Anthracene	mg/kg	0.1	MCERTS	525000	< 0.10	0.19	< 0.10	< 0.10	< 0.10	< 0.10	0.52	0.67	4.6	23	1.3	< 0.10	130	3.7	3.3	< 0.10	< 0.10	< 0.10	0.82	1.9	2.2	3.1
Fluoranthene	mg/kg	0.2	MCERTS	22600	0.3	0.55	< 0.20	< 0.20	< 0.20	< 0.20	3.2	6.8	20	260	4.9	< 0.20	360	17	15	< 0.20	0.26	< 0.20	5.3	10	7.5	14
Pyrene	mg/kg	0.2	MCERTS	54200	0.27	0.44	< 0.20	< 0.20	< 0.20	< 0.20	2.9	6.5	17	210	4.4	< 0.20	280	14	12	< 0.20	0.22	< 0.20	4.3	8.9	6.4	12
Benzo(a)anthracene	mg/kg	0.2	MCERTS	90	< 0.20	0.28	< 0.20	< 0.20	< 0.20	< 0.20	2.3	8.9	11	110	5	< 0.20	190	11	7.7	< 0.20	< 0.20	< 0.20	3.2	6.9	5	7.5
Chrysene	mg/kg	0.05	MCERTS	137	< 0.05	0.16	< 0.05	< 0.05	< 0.05	< 0.05	1.8	7.5	8.3	86	4.2	< 0.05	94	8.9	6	< 0.05	0.17	< 0.05	2.7	4.8	3.9	5.7
Benzo(b)fluoranthene	mg/kg	0.1																								

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	
Lab Sample Number					227905	227911	227912	227916	227917	227657	227903	227904	227906	227907	227908	227909	227910	227913	227914	227915	227655	227656	227680	227681	227683
Sample Reference					TP1209	TP1206	TP1206	TP1207	TP1207	BH1226	TP1209	TP1209	TP1206	TP1206	TP1206	TP1206	TP1206	TP1207	TP1207	TP1207	BH1226	BH1226	TP1208	TP1208	Duplicate (TP1208)
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					3.70-3.80	3.20-3.30	4.00-4.10	3.20	3.50	3.90-4.00	0.40-0.50	2.30-2.40	0.40-0.50	1.40-1.50	1.80-1.90	1.90-2.00	2.40-2.50	1.00	2.00	2.40	0.60-0.70	2.30-2.40	1.30-1.40	2.40-2.50	4.10-4.20
Date Sampled					20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	18/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	21/09/2012	18/09/2012	18/09/2012	19/09/2012	19/09/2012	18/09/2012
Time Taken					0745	1210	1210	0905	0910	1040	0745	0745	None Supplied	1140	1200	1210	1210	0745	0845	0855	0920	1040	1055	1105	1150
Temperature on receipt at laboratory (°C)					6.6	6.6	6.6	6.6	6.6	6.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	Screening criteria (commercial 1%)																					
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	3160	84	57	74	39	76	59	57	68	49	42	62	78	41	55	55	73	33	45	60	64	45
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	662000	74	86	91	38	81	88	110	120	290	230	65	85	48	150	140	61	69	58	130	180	94
				-																					
Monoaromatics				-																					
Benzene	µg/kg	1	MCERTS	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	49	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	870	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	518	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	77	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	575	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	480	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	510	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	7900	< 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
Petroleum Hydrocarbons				-																					
Petroleum Range Organics (C6 - C10)	mg/kg	0.1	NONE	nc	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	3.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
				-																					
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	3380	< 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
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	8250	< 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
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	2130	< 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
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	10300	< 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
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	60800	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	673000	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	12	< 8.0	16	24	620	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	673000	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	67	< 8.0	59	200	7700	< 8.0	< 8.0	18	28	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	79	< 10	74	210	8500	< 10	< 10	18	28	< 10	< 10	< 10	< 10	< 10
				-																					
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	27700	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	59000	< 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
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	3670	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	3.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	16900	< 1.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.9	16	2.4	< 1.0	110	17	4.4	< 1.0	< 1.0	< 1.0	7	6.5	1.5
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	36200	2.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.5	12	12	58	51	< 2.0	600	28	19	< 2.0	< 2.0	< 2.0	6.7	10	4.3
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	26700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10	46	68	730	290	< 10	2200	67	44	< 10	< 10	< 10	18	32
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	28400	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	120	180	590	1900	< 10	1500	130	71	< 10	< 10	< 10	33	52
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	30	180	260	1400	2300	< 10	4500	240	140	< 10	< 10	< 10	64	100
				-																					
TPH (C10 - C25)	mg/kg	10	NONE	nc	< 10	< 10	< 10	< 10	< 10	< 10	34	41	160	840	3000	< 10	3000	110	110	< 10	< 10	< 10	35	45	53
TPH (C25 - C40)	mg/kg	10	NONE	nc																					
				-																					
VOCs				-																					
Chloromethane	µg/kg	4	ISO 17025	1000	-	< 4.0	< 4.0	< 4.0	< 4.0	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	-	-	-	< 4.0	< 4.0	-	-
Chloroethane	µg/kg	2	ISO 17025	960000	-	< 2.0	< 2.0	< 2.0	< 2.0	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	-	-	-	< 2.0	< 2.0	-	-
Bromomethane	µg/kg	6	ISO 17025	nc	-	< 6.0	< 6.0	< 6.0	< 6.0	-	-	-	-	-	< 6.0	< 6.0	< 6.0	< 6.0	-	-	-	< 6.0	< 6.0	-	-
Vinyl Chloride	µg/kg	24	ISO 17025	630	-	< 24	< 24	< 24	< 24	-	-	-	-	-	< 24	< 24	< 24	< 24	-	-	-	< 24	< 24	-	-
Trichlorofluoromethane	µg/kg	5	ISO 17025	nc	-	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	-	-	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0	-	-
1,1-dichloroethene	µg/kg	7	MCERTS	26000	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	-	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	< 7.0	< 7.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	7	ISO 17025	nc	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	-	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	< 7.0	< 7.0	-	-
Cis-1,2-dichloroethene	µg/kg	7	MCERTS	14000	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	-	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	< 7.0	< 7.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	nc	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	-	-	-	< 1.0	< 1.0	-	-
1,1-dichloroethane	µg/kg	6	MCERTS	280000	-	< 6.0	< 6.0	< 6.0	< 6.0	-	-	-	-	-	< 6.0	< 6.0	< 6.0	< 6.0	-	-	-	< 6.0	< 6.0	-</	

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	
Lab Sample Number					227905	227911	227912	227916	227917	227657	227903	227904	227906	227907	227908	227909	227910	227913	227914	227915	227655	227656	227680	227681	227683
Sample Reference					TP1209	TP1206	TP1206	TP1207	TP1207	BH1226	TP1209	TP1209	TP1206	TP1206	TP1206	TP1206	TP1206	TP1207	TP1207	TP1207	BH1226	BH1226	TP1208	TP1208	Duplicate (TP1208)
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					3.70-3.80	3.20-3.30	4.00-4.10	3.20	3.50	3.90-4.00	0.40-0.50	2.30-2.40	0.40-0.50	1.40-1.50	1.80-1.90	1.90-2.00	2.40-2.50	1.00	2.00	2.40	0.60-0.70	2.30-2.40	1.30-1.40	2.40-2.50	4.10-4.20
Date Sampled					20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	18/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	21/09/2012	18/09/2012	18/09/2012	19/09/2012	19/09/2012	18/09/2012
Time Taken					0745	1210	1210	0905	0910	1040	0745	0745	None Supplied	1140	1200	1210	1210	0745	0845	0855	0920	1040	1055	1105	1150
Temperature on receipt at laboratory (°C)				Screening criteria	6.6	6.6	6.6	6.6	6.6	6.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1 %)																					
N-Propylbenzene	µg/kg	5	ISO 17025	4100000	-	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	-	-	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0	-	-
2-Chlorotoluene	µg/kg	11	NONE	nc	-	< 11	< 11	< 11	< 11	-	-	-	-	-	< 11	< 11	< 11	< 11	-	-	-	< 11	< 11	-	-
4-Chlorotoluene	µg/kg	11	NONE	nc	-	< 11	< 11	< 11	< 11	-	-	-	-	-	< 11	< 11	< 11	< 11	-	-	-	< 11	< 11	-	-
1,3,5-Trimethylbenzene	µg/kg	4	ISO 17025	nc	-	< 4.0	< 4.0	< 4.0	< 4.0	-	-	-	-	-	< 4.0	< 4.0	410	< 4.0	-	-	-	< 4.0	< 4.0	-	-
Tert-Butylbenzene	µg/kg	4	NONE	nc	-	< 4.0	< 4.0	< 4.0	< 4.0	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	-	-	-	< 4.0	< 4.0	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	nc	-	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	-	-	< 5.0	< 5.0	720	< 5.0	-	-	-	< 5.0	< 5.0	-	-
Sec-Butylbenzene	µg/kg	5	NONE	nc	-	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	-	-	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0	-	-
1,3-dichlorobenzene	µg/kg	7	ISO 17025	nc	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	-	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	< 7.0	< 7.0	-	-
P-Isopropyltoluene	µg/kg	16	ISO 17025	nc	-	< 16	< 16	< 16	< 16	-	-	-	-	-	< 16	< 16	< 16	< 16	-	-	-	< 16	< 16	-	-
1,2-dichlorobenzene	µg/kg	5	MCERTS	2140000	-	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	-	-	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	< 5.0	< 5.0	-	-
1,4-dichlorobenzene	µg/kg	8	MCERTS	nc	-	< 8.0	< 8.0	< 8.0	< 8.0	-	-	-	-	-	< 8.0	< 8.0	< 8.0	< 8.0	-	-	-	< 8.0	< 8.0	-	-
Butylbenzene	µg/kg	4	NONE	nc	-	< 4.0	< 4.0	< 4.0	< 4.0	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	-	-	-	< 4.0	< 4.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	7	ISO 17025	nc	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	-	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	< 7.0	< 7.0	-	-
1,2,4-Trichlorobenzene	µg/kg	9	MCERTS	nc	-	< 9.0	< 9.0	< 9.0	< 9.0	-	-	-	-	-	< 9.0	< 9.0	< 9.0	< 9.0	-	-	-	< 9.0	< 9.0	-	-
Hexachlorobutadiene	µg/kg	7	NONE	nc	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	-	-	< 7.0	< 7.0	< 7.0	< 7.0	-	-	-	< 7.0	< 7.0	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	108000	-	< 10	< 10	< 10	< 10	-	-	-	-	-	< 10	< 10	< 10	< 10	-	-	-	< 10	< 10	-	-
VOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	ND	-	-	-	-	-	ND	ND	naphthalene, 2-methyl-	ND	-	-	-	ND	ND	-	-
VOC % Match	%	N/A	NONE	nc	-	ND	ND	ND	ND	-	-	-	-	-	ND	ND	96	ND	-	-	-	0	0	-	-
VOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	ND		-	-	-	-	ND	ND	Naphthalene, 1-methyl-	ND	-	-					
VOC % Match	%	N/A	NONE	nc	-	ND	ND	ND	ND		-	-	-	-	ND	ND	92	ND	-	-					
VOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	ND		-	-	-	-	ND	ND	benzene, 1-ethynyl-4-methyl-	ND	-	-					
VOC % Match	%	N/A	NONE	nc	-	ND	ND	ND	ND		-	-	-	-	ND	ND	91	ND	-	-					
VOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	ND		-	-	-	-	ND	ND	Azulene	ND	-	-					
VOC % Match	%	N/A	NONE	nc	-	ND	ND	ND	ND		-	-	-	-	ND	ND	91	ND	-	-					
SVOCs				-																					
Aniline	mg/kg	0.1	NONE	nc	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-
Phenol	mg/kg	0.2	ISO 17025	3200	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	< 0.2	< 0.2	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	3587	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	nc	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	< 0.2	< 0.2	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	32	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	< 0.2	< 0.2	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	2140	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	4460	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	< 0.2	< 0.2	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	nc	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	nc	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	< 0.3	< 0.3	-	-
Hexachloroethane	mg/kg	0.3	MCERTS	22	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	< 0.3	< 0.3	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	nc	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	< 0.3	< 0.3	-	-
4-Methylphenol	mg/kg	0.2	NONE	nc	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	< 0.2	< 0.2	-	-
Isophorone	mg/kg	0.2	MCERTS	nc	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	< 0.2	< 0.2	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	nc	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	< 0.3	< 0.3	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	16000	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	0.7	< 0.3	-	-	-	< 0.3	< 0.3	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	nc	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	< 0.3	< 0.3	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	228	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	< 0.3	< 0.3	-	-
Naphthalene	mg/kg	0.1	ISO 17025	204	-	2	< 0.1	< 0.1	< 0.1	-	-	-	-	-	0.8	< 0.1	94	5.4	-	-	-	< 0.1	0.8	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	3470	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	< 0.3	< 0.3	-	-
4-Chloroaniline	mg/kg	0.1	NONE	nc	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	nc	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	nc	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	3880	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	nc	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	< 0.2	< 0.2	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	nc	-	0.2	< 0.1	< 0.1	< 0.1	-	-	-	-	-	0.3	< 0.1	80	0.8	-	-	-	< 0.1	< 0.1	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	390	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	&			

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	
Lab Sample Number					227905	227911	227912	227916	227917	227657	227903	227904	227906	227907	227908	227909	227910	227913	227914	227915	227655	227656	227680	227681	227682	227683
Sample Reference					TP1209	TP1206	TP1206	TP1207	TP1207	BH1226	TP1209	TP1209	TP1206	TP1206	TP1206	TP1206	TP1206	TP1207	TP1207	TP1207	BH1226	BH1226	TP1208	TP1208	TP1208	Duplicate (TP1208)
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					3.70-3.80	3.20-3.30	4.00-4.10	3.20	3.50	3.90-4.00	0.40-0.50	2.30-2.40	0.40-0.50	1.40-1.50	1.80-1.90	1.90-2.00	2.40-2.50	1.00	2.00	2.40	0.60-0.70	2.30-2.40	1.30-1.40	2.40-2.50	4.10-4.20	1.6 - 1.7
Date Sampled					20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	18/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	21/09/2012	18/09/2012	18/09/2012	19/09/2012	19/09/2012	18/09/2012	18/09/2012
Time Taken					0745	1210	1210	0905	0910	1040	0745	0745	None Supplied	1140	1200	1210	1210	0745	0845	0855	0920	1040	1055	1105	1150	None Supplied
Temperature on receipt at laboratory (°C)				Screening criteria	6.6	6.6	6.6	6.6	6.6	6.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1%)																						
Anthraquinone	mg/kg	0.3	MCERTS	nc	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	< 0.3	< 0.3	-	-	-
Fluoranthene	mg/kg	0.2	MCERTS	22600	-	0.6	< 0.2	< 0.2	< 0.2	-	-	-	-	-	4.9	< 0.2	360	17	-	-	-	< 0.2	5.3	-	-	-
Pyrene	mg/kg	0.2	ISO 17025	54200	-	0.4	< 0.2	< 0.2	< 0.2	-	-	-	-	-	4.4	< 0.2	280	14	-	-	-	< 0.2	4.3	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	940000	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	-	-	-	< 0.3	< 0.3	-	-	-
Benzo(a)anthracene	mg/kg	0.2	MCERTS	90	-	0.3	< 0.2	< 0.2	< 0.2	-	-	-	-	-	5	< 0.2	190	12	-	-	-	< 0.2	3.2	-	-	-
Chrysene	mg/kg	0.05	ISO 17025	137	-	0.2	< 0.1	< 0.1	< 0.1	-	-	-	-	-	4.2	< 0.1	94	8.9	-	-	-	< 0.1	2.7	-	-	-
Benzo(b)fluoranthene	mg/kg	0.1	ISO 17025	100	-	0.3	< 0.1	< 0.1	< 0.1	-	-	-	-	-	10	< 0.1	160	13	-	-	-	< 0.1	3.9	-	-	-
Benzo(k)fluoranthene	mg/kg	0.2	ISO 17025	141	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	3.9	< 0.2	68	5.8	-	-	-	< 0.2	1.5	-	-	-
Benzo(a)pyrene	mg/kg	0.1	MCERTS	14	-	0.2	< 0.1	< 0.1	< 0.1	-	-	-	-	-	8.1	< 0.1	140	11	-	-	-	< 0.1	2.9	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	ISO 17025	60	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	5.1	< 0.2	55	4.7	-	-	-	< 0.2	1.5	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.2	ISO 17025	13	-	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-	-	1	< 0.2	11	1	-	-	-	< 0.2	< 0.2	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	ISO 17025	654	-	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-	-	5.1	< 0.1	61	5.2	-	-	-	< 0.1	1.6	-	-	-
				-																						
SVOCs TICs				-																						
SVOCs TICs Compound Name		N/A	NONE	nc	-	Cyclohexasioxane, 1,1-dodecamethyl	Hexadecanoic acid, 1,1-dimethylethyl	ND	Hexadecanoic acid, 1,1-dimethylethyl	-	-	-	-	-	2,3,6-trimethyl-	ND	Benzo[b]trienylene-	Benzo[e]pyrene-					Pyrene, 1-methyl-	-	-	-
SVOC % Match	mg/kg	N/A	NONE	nc	-	91	99	ND	93	-	-	-	-	-	96	ND	99	99	-	-	-	0	98	-	-	-
SVOCs TICs Compound Name		N/A	NONE	nc	-	9-Octadecanamide, (Z)-		ND	Octadecanoic acid, butyl ester	-	-	-	-	-	1-Hexacosene	ND	Naphthalene, 1,6,7-trimethyl-	Triphenylene, 2-methyl-				0	Fluoranthene, 2-methyl-	-	-	-
SVOC % Match	%	N/A	NONE	nc	-	91	ND	ND	93	-	-	-	-	-	95	ND	98	98	-	-	-	0	98	-	-	-
SVOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	Octacosane	ND	Naphthalene, 2,3,6-trimethyl-	Dibenzothiophene-				0	Benzo[e]pyrene-	-	-	-
SVOC % Match	%	N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	95	ND	98	97	-	-	-	0	98	-	-	-
SVOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	2-Methyl-Z-4-tetradecene	ND	9,10-Dimethylanthracene	Phenanthrene, 1-methyl-				0	Phenanthrene, 1-methyl-	-	-	-
SVOC % Match	%	N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	93	ND	98	97	-	-	-	0	96	-	-	-
SVOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	Benzisothiazole, 3-(hexahydro-	ND	Pyrene, 1,3-dimethyl-	Pyrene, 1-methyl-				0	Naphthalene, 1,6,7-trimethyl-	-	-	-
SVOC % Match	%	N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	91	ND	98	97	-	-	-	0	95	-	-	-
SVOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	Biphenanthrene, octacosahydr	ND	d]thiophene	d]thiophene				0	Triphenylene, 2-methyl-	-	-	-
SVOC % Match	%	N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	91	ND	98	97	-	-	-	0	95	-	-	-
SVOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	Naphthalene	ND		2,3-dimethyl-				0	Tetradecadiene	-	-	-
SVOC % Match	mg/kg	N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	91	ND	98	96	-	-	-	0	95	-	-	-
SVOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	tetralinacene-	ND	Dibenzopyrene-	Anthracene, 1-methyl-				0	Dimethylantracene-	-	-	-
SVOC % Match	mg/kg	N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	91	ND	98	96	-	-	-	0	94	-	-	-
SVOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-		ND	ne-	racene-				0	hene-	-	-	-
SVOC % Match	mg/kg	N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	91	ND	98	96	-	-	-	0	93	-	-	-
SVOCs TICs Compound Name		N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-		ND	one, 2,3-	Benzo[b]fluor				0	2,3-dimethyl-	-	-	-
SVOC % Match	mg/kg	N/A	NONE	nc	-	ND	ND	ND	0	-	-	-	-	-	91	ND	97	96	-	-	-	0	92	-	-	-
PCBs by GC-MS					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB Congener 28	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 52	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 101	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 118	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 138	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 153	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 180	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
Total PCBs	mg/kg	0.3	NONE	0.24	-	-	-	-	-	-	-	-	-	-	-	-	< 0.30	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs - WHO 12 Congeners					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCB Congener 077	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 081	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 105	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 114	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 118	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 123	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 126	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 156	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 157	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 167	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 169	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
PCB Congener 189	mg/kg	0.02	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 0.02	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCB (WHO12)	mg/kg	0.3	NONE	nc	-	-																				

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	
Lab Sample Number					227905	227911	227912	227916	227917	227657	227903	227904	227906	227907	227908	227909	227910	227913	227914	227915	227655	227656	227680	227681	227682	227683
Sample Reference					TP1209	TP1206	TP1206	TP1207	TP1207	BH1226	TP1209	TP1209	TP1206	TP1206	TP1206	TP1206	TP1206	TP1207	TP1207	TP1207	BH1226	BH1226	TP1208	TP1208	TP1208	Duplicate (TP1208)
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					3.70-3.80	3.20-3.30	4.00-4.10	3.20	3.50	3.90-4.00	0.40-0.50	2.30-2.40	0.40-0.50	1.40-1.50	1.80-1.90	1.90-2.00	2.40-2.50	1.00	2.00	2.40	0.60-0.70	2.30-2.40	1.30-1.40	2.40-2.50	4.10-4.20	1.6 - 1.7
Date Sampled					20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	18/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	21/09/2012	18/09/2012	18/09/2012	19/09/2012	19/09/2012	18/09/2012	
Time Taken					0745	1210	1210	0905	0910	1040	0745	0745	None Supplied	1140	1200	1210	1210	0745	0845	0855	0920	1040	1055	1105	1150	None Supplied
Temperature on receipt at laboratory (°C)				Screening criteria (commercial 1 %)	6.6	6.6	6.6	6.6	6.6	6.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																							
Alpha-BHC(Lindane)	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Beta-BHC(Lindane)	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Chlordane (sum of cis & trans isomers)	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
DDD	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
DDE	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
DDT	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Dieldrin	mg/kg	0.01	NONE	87	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Endosulphan I	mg/kg	0.01	NONE	2310	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Endosulphan II	mg/kg	0.01	NONE	2570	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Endosulphan Sulphate	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Endrin	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Gamma-BHC	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Heptachlor	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Hexachlorocyclohexane	mg/kg	0.01	NONE	14000	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
pp-Methoxychlor	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Propyzamide	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Organophosphorus Pesticides (OPP)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Azinphos methyl	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Diazinon	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Dichlorvos	mg/kg	0.01	NONE	842	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Dimethoate	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Etion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Fenitrothion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Malathion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Mevinphos	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Parathion	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Pirimiphos methyl	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Organonitrogen Pesticides (ONP)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	mg/kg	0.01	NONE	733	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Simazine	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Trietazine	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Phenyl Urea Pesticides					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benazolin	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Bromoxynil	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Carbazole	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Chlorotoluron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Clpyralid	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Diblubenzuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Dicamb	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Diclofop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Diuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Flamprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Fenoprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Fuometuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Linuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Loxynil	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
MCPB	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Methiocarb	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Monuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Picloram	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	0.01	NONE	1220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propanil	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Siduron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Tebuthiuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Thidiazuron	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Triclopyr	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
2,4-DB	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trifluralin	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Phenoxy Acetic Acid Herbicides					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mecoprop	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
MCPA	mg/kg	0.01	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-</				

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	
				Area	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	Area 4	
Lab Sample Number					227905	227911	227912	227916	227917	227657	227903	227904	227906	227907	227908	227909	227910	227913	227914	227915	227655	227656	227680	227681	227682	227683
Sample Reference					TP1209	TP1206	TP1206	TP1207	TP1207	BH1226	TP1209	TP1209	TP1206	TP1206	TP1206	TP1206	TP1206	TP1207	TP1207	TP1207	BH1226	BH1226	TP1208	TP1208	TP1208	Duplicate (TP1208)
Material type					LC	LC	LC	LC	LC	LC	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Depth (m)					3.70-3.80	3.20-3.30	4.00-4.10	3.20	3.50	3.90-4.00	0.40-0.50	2.30-2.40	0.40-0.50	1.40-1.50	1.80-1.90	1.90-2.00	2.40-2.50	1.00	2.00	2.40	0.60-0.70	2.30-2.40	1.30-1.40	2.40-2.50	4.10-4.20	1.6 - 1.7
Date Sampled					20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	18/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	20/09/2012	21/09/2012	21/09/2012	21/09/2012	18/09/2012	18/09/2012	19/09/2012	19/09/2012	19/09/2012	18/09/2012
Time Taken					0745	1210	1210	0905	0910	1040	0745	0745	None Supplied	1140	1200	1210	1210	0745	0845	0855	0920	1040	1055	1105	1150	None Supplied
Temperature on receipt at laboratory (°C)				Screening criteria	6.6	6.6	6.6	6.6	6.6	6.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	(commercial 1%)																						
Dioxins and Furans	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	0.0036	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	0.0044	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
Octachlorodibenzo-p-dioxin	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	0.0111	-	-	-	-	-	-	-	-	-
Octachlorodibenzofuran	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	0.0067	-	-	-	-	-	-	-	-	-
Total Non-2,3,7,8-Heptachlorodibenzo-p-dioxins	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	NR	-	-	-	-	-	-	-	-	-
Total Non-2,3,7,8-Heptachlorodibenzofurans	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	NR	-	-	-	-	-	-	-	-	-
Total Non-2,3,7,8-Hexachlorodibenzo-p-dioxins	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	NR	-	-	-	-	-	-	-	-	-
Total Non-2,3,7,8-Hexachlorodibenzofurans	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	NR	-	-	-	-	-	-	-	-	-
Total Non-2,3,7,8-Pentachlorodibenzo-p-dioxins	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	NR	-	-	-	-	-	-	-	-	-
Total Non-2,3,7,8-Pentachlorodibenzofurans	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	NR	-	-	-	-	-	-	-	-	-
Total Non-2,3,7,8-Tetrachlorodibenzo-p-dioxins	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	NR	-	-	-	-	-	-	-	-	-
Total Non-2,3,7,8-Tetrachlorodibenzofurans	ng/kg	1	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	NR	-	-	-	-	-	-	-	-	-
				nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glycols	mg/kg	10	NONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Glycol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-	-	-	-	-	-	-
Propylene Glycol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-	-	-	-	-	-	-
Triethylene Glycol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-	-	-	-	-	-	-
1,3 Butanediol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-	-	-	-	-	-	-
1,3 Propanediol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-	-	-	-	-	-	-
1,4 Butanediol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-	-	-	-	-	-	-
Diethylene Glycol	mg/kg	10	NONE	nc	-	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-	-	-	-	-	-	-

Table D4 - Results of laboratory analysis of groundwater samples

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 1A	Tranche 2	Tranche 2	Tranche 2	Tranche 2
				Area	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1
Lab Sample Number					228512	228884	228885	227632	227634	227635	227636	227637	229595	229596	229750	226846	226274	229622	229751	229752	230407
Sample Reference					WS1224	WS1222	WS1223	BH1227	TP1212	TP1212	TP1211	TP1214	WS1222	WS1223	WS1224	SP2	ExSP	SP2	ExSP	BH1227	BH1227
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	during GI	during GI	during GI	during GI	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Lambeth Sands aquifer	Lambeth Sands aquifer
Sample Type					Water	Water	Water	Water	Water	Water	Water	Water	Water (bailed)	Water	Water	Water	Water	Water	Water	Water	Water
Depth (m)					1.90	0.93	0.09	1.20	0.38	0.48	0.40	0.80	1	0.5	2.03	2.30	1.20	3.6	3.54	30.70	
Date Sampled					25/09/2012	27/09/2012	27/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	04/10/2012	04/10/2012	03/10/2012	12/09/2012	07/09/2012	04/10/2012	03/10/2012	03/10/2012	11/10/2012
Time Taken					1300	1230	1300	Not recorded	1455	1500	0945	1645	Not recorded	1157	1416	1315	1205	1255	1712	1640	1300
Temperature at receipt at laboratory	°C				4.5	4.9	4.9	6.8	6.8	6.8	6.8	6.8	6.4	6.4	4.2	5.1	6.2	-	4.2	4.2	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria																		
General Inorganics																					
pH	pH Units	N/A	nc		8.2	9.2	10.9	9.7	8.2	7.7	8.3	8.1	9.6	10.1	8.5	7.3	7.9	8.9	8.6	12.2	12.3
Electrical Conductivity	µS/cm	10	nc		900	1800	2800	2300	2600	2700	2400	2200	2000	2100	1300	7600	2400	5000	2200	10000	7900
Total Cyanide	µg/l	10	50	UKDWS	< 10	< 10	< 10	60	120	140	53	79	< 10	< 10	< 10	< 10	65	< 10	58	< 10	< 10
Complex Cyanide	µg/l	10	nc		< 10	< 10	< 10	60	120	140	53	79	< 10	< 10	< 10	< 10	65	< 10	58	< 10	< 10
Free Cyanide	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thiocyanate as SCN	µg/l	70	nc		< 200	< 200	270	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	210	< 200	650	< 200
Sulphate as SO ₄	ug/l	45	250000	UKDWS	173000	449000	648000	869000	845000	884000	746000	667000	587000	348000	351000	2340000	1260000	1480000	707000	54400	58900
Sulphide	µg/l	5	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	4	250	UKDWS	37	210	390	220	340	300	240	250	210	330	79	1100	210	790	200	310	500
Ammoniacal Nitrogen as N	µg/l	15	15	EQS	1700	1400	1100	340	190	210	190	210	620	790	540	180	1100	140	270	2600	4400
Ammonium as NH ₄	µg/l	15	nc		2200	1800	1400	440	250	260	240	270	790	1000	690	240	1400	190	350	3300	5600
Total Organic Carbon (TOC)	mg/l	0.1	nc		7.7	11	17	15	15	14	17	12	11	19	8.1	9.6	9.6	20	12	13	30
Alkalinity	mgCaCO3/l	10	nc		220	62	130	250	190	200	160	100	180	100	120	130	130	82	130	2100	1700
Total Suspended Solids	mg/l	5	nc		18	370	770	1800	660	520	240	300	2400	37	< 5.0	25000	12	30	10	16	16
			nc																		
Phenols by HPLC																					
Catechol	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylphenol & Dimethylphenol	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cresols	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthols	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenol	µg/l	0.5	0.5	KDWS 198	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trimethylphenol	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			nc																		
Total Phenols																					
Total Phenols (monohydric)	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Phenols (HPLC)	µg/l	3.5	nc		< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
			nc																		
Speciated PAHs																					
Naphthalene	µg/l	0.01	10	EQS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	5	DIW	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	0.4	EQS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	0.1	EQS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01</									

			Tranche		Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 1A	Tranche 2	Tranche 2	Tranche 2	Tranche 2
			Area		Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1
Lab Sample Number					228512	228884	228885	227632	227634	227635	227636	227637	229595	229596	229750	226846	226274	229622	229751	229752	230407
Sample Reference					WS1224	WS1222	WS1223	BH1227	TP1212	TP1212	TP1211	TP1214	WS1222	WS1223	WS1224	SP2	ExSP	SP2	ExSP	BH1227	BH1227
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	during GI	during GI	during GI	during GI	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Lambeth Sands aquifer	Lambeth Sands aquifer
Sample Type					Water	Water	Water	Water	Water	Water	Water	Water	Water (bailed)	Water	Water	Water	Water	Water	Water	Water	Water
Depth (m)					1.90	0.93	0.09	1.20	0.38	0.48	0.40	0.80	1	0.5	2.03	2.30	1.20	3.6	3.54	30.70	
Date Sampled					25/09/2012	27/09/2012	27/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	04/10/2012	04/10/2012	03/10/2012	12/09/2012	07/09/2012	04/10/2012	03/10/2012	03/10/2012	11/10/2012
Time Taken					1300	1230	1300	Not recorded	1455	1500	0945	1645	Not recorded	1157	1416	1315	1205	1255	1712	1640	1300
Temperature at receipt at laboratory	°C				4.5	4.9	4.9	6.8	6.8	6.8	6.8	6.8	6.4	6.4	4.2	5.1	6.2	-	4.2	4.2	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria																		
Cadmium (dissolved)	µg/l	0.1	5	UKDWS	< 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
Chromium (hexavalent)	µg/l	5	nc		< 5.0	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	23	< 5.0	< 5.0	< 5.0	< 5.0	12	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	50	UKDWS	2	22	18	11	0.7	< 0.4	0.4	5.7	24	4.3	< 0.4	0.4	0.6	13	< 0.4	3.1	2.5
Copper (dissolved)	µg/l	0.7	2000	UKDWS	4.5	15	21	23	14	11	54	13	16	18	4.3	4.8	9.8	18	8.5	2.6	5.3
Iron (dissolved)	mg/l	0.004	1	EQS	0.11	1.1	1.1	3.4	0.27	0.37	0.29	0.58	0.02	< 0.004	< 0.004	0.27	< 0.004	< 0.004	< 0.004	< 0.004	0.047
Lead (dissolved)	µg/l	1	50	EUDWS	2.3	13	30	68	2.4	2.7	17	22	2.4	< 1.0	3.1	3.8	< 1.0	1.5	< 1.0	< 1.0	1.1
Mercury (dissolved)	µg/l	0.5	1	EUDWS	< 0.5	< 0.5	< 0.5	1.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	50	EQS	1.3	8.1	5.1	7.6	4.7	5.4	5.9	2.8	0.4	< 0.3	< 0.3	5.4	3.2	1.7	< 0.3	< 0.3	1.5
Selenium (dissolved)	µg/l	4	10	EUDWS	< 4.0	< 4.0	6	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Vanadium (dissolved)	µg/l	1.7	100	EQS	19	24	6.7	35	12	7.6	11	34	54	50	20	4.8	< 1.7	36	7.5	24	7.1
Zinc (dissolved)	µg/l	0.4	300	EQS	< 0.4	17	11	3.7	1.9	4.9	29	12	< 0.4	< 0.4	< 0.4	5.1	2.9	< 0.4	9.6	< 0.4	1.6
			nc																		
Calcium (dissolved)	mg/l	0.012	nc		100	110	320	360	400	410	310	280	130	110	110	590	450	390	300	190	140
Magnesium (dissolved)	mg/l	0.005	nc		5.8	3.4	17	7.1	22	23	16	12	4.3	12	4.2	300	13	110	10	< 0.005	0.34
Potassium (dissolved)	mg/l	0.025	nc		33	25	40	81	47	45	44	59	43	38	50	55	84	85	67	52	57
Sodium (dissolved)	mg/l	0.01	nc		75	260	340	210	270	270	310	220	250	240	100	720	210	540	160	770	780
			nc																		
			nc																		
Monoaromatics			nc																		
Benzene	µg/l	1	1	EUDWS	< 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
Toluene	µg/l	1	40	EQS	< 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
Ethylbenzene	µg/l	1	200	EQS	< 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
p & m-xylene	µg/l	1	30	EQS	< 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
o-xylene	µg/l	1	nc		< 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
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	nc		< 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
			nc																		
Petroleum Hydrocarbons			nc																		
			nc																		
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	15000	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	15000	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	300	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	300	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	300	WHO 2004	< 10	< 10	< 10	< 10	< 10	140	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	300	WHO 2004	< 10	< 10	< 10	< 10	< 10	380	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	840	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	1400	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
			nc																		
TPH-CWG - Aromatic >C5 - C7	µg/l	10	10	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C7 - C8	µg/l	10	10	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C8 - C10	µg/l	10	120	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C10 - C12	µg/l	10	120	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	120	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	90	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	90	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
			nc																		
			nc																		
VOCs			nc																		
Chloromethane	µg/l	1	nc		< 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
Chloroethane	µg/l	1	nc		< 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

			Tranche		Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 1A	Tranche 2	Tranche 2	Tranche 2	Tranche 2
			Area		Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1
Lab Sample Number					228512	228884	228885	227632	227634	227635	227636	227637	229595	229596	229750	226846	226274	229622	229751	229752	230407
Sample Reference					WS1224	WS1222	WS1223	BH1227	TP1212	TP1212	TP1211	TP1214	WS1222	WS1223	WS1224	SP2	ExSP	SP2	ExSP	BH1227	BH1227
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	during GI	during GI	during GI	during GI	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Lambeth Sands aquifer	Lambeth Sands aquifer
Sample Type					Water	Water	Water	Water	Water	Water	Water	Water	Water (bailed)	Water	Water	Water	Water	Water	Water	Water	Water
Depth (m)					1.90	0.93	0.09	1.20	0.38	0.48	0.40	0.80	1	0.5	2.03	2.30	1.20	3.6	3.54	30.70	
Date Sampled					25/09/2012	27/09/2012	27/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	04/10/2012	04/10/2012	03/10/2012	12/09/2012	07/09/2012	04/10/2012	03/10/2012	03/10/2012	11/10/2012
Time Taken					1300	1230	1300	Not recorded	1455	1500	0945	1645	Not recorded	1157	1416	1315	1205	1255	1712	1640	1300
Temperature at receipt at laboratory	°C				4.5	4.9	4.9	6.8	6.8	6.8	6.8	6.8	6.4	6.4	4.2	5.1	6.2	-	4.2	4.2	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria																		
Dibenzo(a,h)anthracene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
			nc																		
SVOCs TICs			nc																		
SVOCs TICs Compound Name		N/A	nc		ND	ND	ND	ND	ND	2,8-Dimethyldibenzo (b,d)thiophene□	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOC % Match		N/A	nc		ND	ND	ND	ND	ND	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SVOCs TICs Compound Name		N/A	nc		ND																
SVOC % Match	%	N/A	nc		ND																
SVOCs TICs Compound Name		N/A	nc		ND																
SVOC % Match	%	N/A	nc		ND																
SVOCs TICs Compound Name		N/A	nc																		
SVOC % Match	%	N/A	nc																		
SVOCs TICs Compound Name		N/A	nc																		
SVOC % Match	%	N/A	nc																		
			nc																		
PCBs by GC-MS			nc																		
PCB Congener 28	µg/l	0.05	nc													< 0.05					
PCB Congener 52	µg/l	0.05	nc													< 0.05					
PCB Congener 101	µg/l	0.05	nc													< 0.05					
PCB Congener 118	µg/l	0.05	nc													< 0.05					
PCB Congener 138	µg/l	0.05	nc													< 0.05					
PCB Congener 153	µg/l	0.05	nc													< 0.05					
PCB Congener 180	µg/l	0.05	nc													< 0.05					
			nc																		
PCBs by GC-MS			nc																		
Total PCBs	µg/l	0.4	nc													< 0.40					
			nc																		
Organochlorine Pesticides (OCP)			nc																		
Aldrin	µg/l	0.01	0.03	UKDWS												< 0.01					
Alpha-BHC(Lindane)	µg/l	0.01	nc													< 0.01					
Beta-BHC(Lindane)	µg/l	0.01	nc													< 0.01					
Chlordane (sum of cis & trans isomers)	µg/l	0.01	nc													< 0.01					
DDD	µg/l	0.01	nc													< 0.01					
DDE	µg/l	0.01	nc													< 0.01					
DDT	µg/l	0.01	1	WHO												< 0.01					
Dieldrin	µg/l	0.01	0.03	UKDWS												< 0.01					
Endosulphan I	µg/l	0.01	nc													< 0.01					
Endosulphan II	µg/l	0.01	nc													< 0.01					
Endosulphan Sulphate	µg/l	0.01	nc													< 0.01					
Endrin	µg/l	0.01	0.1	UKDWS												< 0.01					
Gamma-BHC (Lindane)	µg/l	0.01	nc													< 0.01					
Heptachlor	µg/l	0.01	nc													< 0.01					
Heptachlor epoxide	µg/l	0.01	nc													< 0.01					
Hexachlorobenzene	µg/l	0.01	nc													< 0.01					
pp-Methoxychlor	µg/l	0.01	nc													< 0.01					
Propyzamide	µg/l	0.01	nc													< 0.01					
			nc																		
Organophosphorus Pesticides (OPP)			nc																		

			Tranche		Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 1A	Tranche 2	Tranche 2	Tranche 2	Tranche 2
			Area		Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1
Lab Sample Number					228512	228884	228885	227632	227634	227635	227636	227637	229595	229596	229750	226846	226274	229622	229751	229752	230407
Sample Reference					WS1224	WS1222	WS1223	BH1227	TP1212	TP1212	TP1211	TP1214	WS1222	WS1223	WS1224	SP2	ExSP	SP2	ExSP	BH1227	BH1227
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	during GI	during GI	during GI	during GI	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Lambeth Sands aquifer	Lambeth Sands aquifer
Sample Type					Water	Water	Water	Water	Water	Water	Water	Water	Water (bailed)	Water	Water	Water	Water	Water	Water	Water	Water
Depth (m)					1.90	0.93	0.09	1.20	0.38	0.48	0.40	0.80	1	0.5	2.03	2.30	1.20	3.6	3.54	30.70	
Date Sampled					25/09/2012	27/09/2012	27/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	04/10/2012	04/10/2012	03/10/2012	12/09/2012	07/09/2012	04/10/2012	03/10/2012	03/10/2012	11/10/2012
Time Taken					1300	1230	1300	Not recorded	1455	1500	0945	1645	Not recorded	1157	1416	1315	1205	1255	1712	1640	1300
Temperature at receipt at laboratory	°C				4.5	4.9	4.9	6.8	6.8	6.8	6.8	6.8	6.4	6.4	4.2	5.1	6.2	-	4.2	4.2	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria																		
Azinphos methyl	µg/l	0.01	nc													< 0.01					
Diazinon	µg/l	0.01	nc													< 0.01					
Dichlorvos	µg/l	0.01	nc													< 0.01					
Ethion	mg/kg	0.01	nc													< 0.01					
Fenitrothion	µg/l	0.01	nc													< 0.01					
Malathion	µg/l	0.01	nc													< 0.01					
Mevinphos	µg/l	0.01	nc													< 0.01					
Parathion	µg/l	0.01	nc													< 0.01					
Pirimiphos methyl	µg/l	0.01	nc													< 0.01					
			nc																		
Organonitrogen Pesticides (ONP)				nc																	
Atrazine	µg/l	0	nc													< 0.01					
Prometryn	µg/l	0	nc													< 0.01					
Propazine	µg/l	0.01	nc													< 0.01					
Simazine	µg/l	0	nc													< 0.01					
Terbutryn	µg/l	0	nc													< 0.01					
Trietazine	µg/l	0	nc													< 0.01					
			nc																		
Phenyl Urea Pesticides				nc																	
Benazolin	µg/l	0.01	nc													< 0.01					
Bromoxylin	µg/l	0.01	nc													< 0.01					
Chlorotoluron	µg/l	0.1	nc													< 0.10					
Clopyralid	µg/l	0.01	nc													< 0.01					
Diblubenzuron	µg/l	0.01	nc													< 0.01					
Dicamb	µg/l	0.01	nc													< 0.01					
Diclofop	µg/l	0.01	nc													< 0.01					
Fenoprop	µg/l	0.01	nc													< 0.01					
Flamprop	µg/l	0.01	nc													< 0.01					
Fluometuron	µg/l	0.01	nc													< 0.01					
Loxylin	µg/l	0.01	nc													< 0.01					
MCPB	µg/l	0.01	nc													< 0.01					
Pentachlorophenol	µg/l	0.01	nc													< 0.01					
Picloram	µg/l	0.01	nc													< 0.01					
Propanil	µg/l	0.01	nc													< 0.01					
Siduron	µg/l	0.01	nc													< 0.01					
Tebuthiuron	µg/l	0.01	nc													< 0.01					
Thidiazuron	µg/l	0.01	nc													< 0.01					
Triclopyr	µg/l	0.01	nc													< 0.01					
2,4-DB	µg/l	0.01	nc													< 0.01					
			nc																		
Trifluralin	µg/l	0.01	nc													< 0.01					
Phenoxy Acetic Acid Herbicides				nc																	
Phenoxy Acetic acid herbicide: Mecoprop	µg/l	0.01	nc													< 0.01					
Phenoxy Acetic acid herbicide: MCPA	µg/l	0.01	nc													< 0.01					
Phenoxy Acetic acid herbicide: Dichlorprop	µg/l	0.01	nc													< 0.01					
Phenoxy Acetic acid herbicide: 2,4-D	µg/l	0.01	nc													< 0.01					
Phenoxy Acetic acid herbicide: Fenoprop	µg/l	0.01	nc													< 0.01					
Phenoxy Acetic acid herbicide: 2,4,5-T	µg/l	0.01	nc													< 0.01					
			nc																		
Glycols				nc																	
Ethylene Glycol	mg/l	10	nc													< 10					
Propylene Glycol	mg/l	10	nc													< 10					

			Tranche		Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 1A	Tranche 2	Tranche 2	Tranche 2	Tranche 2
			Area		Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1
Lab Sample Number					228512	228884	228885	227632	227634	227635	227636	227637	229595	229596	229750	226846	226274	229622	229751	229752	230407	
Sample Reference					WS1224	WS1222	WS1223	BH1227	TP1212	TP1212	TP1211	TP1214	WS1222	WS1223	WS1224	SP2	ExSP	SP2	ExSP	BH1227	BH1227	
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	during GI	during GI	during GI	during GI	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Lambeth Sands aquifer	Lambeth Sands aquifer	
Sample Type					Water	Water	Water	Water	Water	Water	Water	Water	Water (bailed)	Water	Water	Water	Water	Water	Water	Water	Water	
Depth (m)					1.90	0.93	0.09	1.20	0.38	0.48	0.40	0.80	1	0.5	2.03	2.30	1.20	3.6	3.54	30.70		
Date Sampled					25/09/2012	27/09/2012	27/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	18/09/2012	04/10/2012	04/10/2012	03/10/2012	12/09/2012	07/09/2012	04/10/2012	03/10/2012	03/10/2012	11/10/2012	
Time Taken					1300	1230	1300	Not recorded	1455	1500	0945	1645	Not recorded	1157	1416	1315	1205	1255	1712	1640	1300	
Temperature at receipt at laboratory	°C				4.5	4.9	4.9	6.8	6.8	6.8	6.8	6.8	6.4	6.4	4.2	5.1	6.2	-	4.2	4.2	4.80	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria																			
Triethylene Glycol	mg/l	10	nc													< 10						
1,3 Butanediol	mg/l	10	nc													< 10						
1,3 Propanediol	mg/l	10	nc													< 10						
1,4 Butanediol	mg/l	10	nc													< 10						
Diethylene Glycol	mg/l	10	nc													< 10						
			nc																			
Alcohols			nc																			
Ethanol	µg/l	10	nc													< 10						
n-Butanol	mg/l	10	nc													< 10						
Methanol	mg/l	10	nc													< 10						
Propyl Alcohol	mg/l	10	nc													< 10						
Propan-2-ol	mg/l	10	nc													< 10						
			nc																			
PCB Congener 77	ug/l	0.02	nc													< 0.02						
PCB Congener 81	ug/l	0.02	nc													< 0.02						
PCB Congener 105	ug/l	0.02	nc													< 0.02						
PCB Congener 114	ug/l	0.02	nc													< 0.02						
PCB Congener 118	ug/l	0.02	nc													< 0.02						
PCB Congener 123	ug/l	0.02	nc													< 0.02						
PCB Congener 126	ug/l	0.02	nc													< 0.02						
PCB Congener 156	ug/l	0.02	nc													< 0.02						
PCB Congener 157	ug/l	0.02	nc													< 0.02						
PCB Congener 167	ug/l	0.02	nc													< 0.02						
PCB Congener 169	ug/l	0.02	nc													< 0.02						
PCB Congener 189	ug/l	0.02	nc													< 0.02						
Total PCBs	ug/l	0.3	nc													< 0.30						

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 2	Tranche 2	Tranche 2
				Area	Area 2	Area 2	Area 2	Area 2	Area 2	Area 4	Area 4
Lab Sample Number					228883	229426	229424	226273	229621	227638	230408
Sample Reference					WS1221	Duplicate (WS1221)	WS1221	SP3	SP3	TP1208	BH1226
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	Perched water (MG)
Sample Type					Water	Water	Water	Water	Water(bailed)	Water	
Depth (m)					1.70	1.66	1.66	2.70	1.6	3.90	
Date Sampled					27/09/2012	02/10/2012	02/10/2012	07/09/2012	04/10/2012	18/09/2012	11/10/2012
Time Taken					1130	16:51	1700	1205	Not recorded	1140	1200
Temperature at receipt at laboratory		°C			4.9	4.3	4.3	6.2	-	6.8	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria								
General Inorganics											
pH	pH Units	N/A	nc		8.2	7	7.7	8.2	8.3	10.1	8.3
Electrical Conductivity	µS/cm	10	nc		2100	2000	2000	1400	1100	3200	3700
Total Cyanide	µg/l	10	50	UKDWS	67	64	57	38	29	660	53
Complex Cyanide	µg/l	10	nc		67	64	57	38	29	660	53
Free Cyanide	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thiocyanate as SCN	µg/l	70	nc		270	260	230	< 200	< 200	840	< 200
Sulphate as SO ₄	µg/l	45	250000	UKDWS	580000	495000	474000	415000	246000	1490000	1570000
Sulphide	µg/l	5	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	4	250	UKDWS	240	210	230	160	120	280	380
Ammoniacal Nitrogen as N	µg/l	15	15	EQS	2200	2800	2600	1400	100	9000	630
Ammonium as NH ₄	µg/l	15	nc		2900	3600	3300	1900	130	12000	810
Total Organic Carbon (TOC)	mg/l	0.1	nc		24	22	22	12	9.5	40	16
Alkalinity	mgCaCO3/l	10	nc		120	120	130	140	72	120	230
Total Suspended Solids	mg/l	5	nc		10	8	10	< 5.0	6	5500	26
Phenols by HPLC											
Catechol	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Resorcinol	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylphenol & Dimethylphenol	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cresols	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthols	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenol	µg/l	0.5	0.5	UKDWS 1989	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trimethylphenol	µg/l	0.5	nc		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Phenols											
Total Phenols (monohydric)	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Phenols (HPLC)	µg/l	3.5	nc		< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
Speciated PAHs											
Naphthalene	µg/l	0.01	10	EQS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	5	DIW	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	0.4	EQS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	0.1	EQS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	0.5	DIV	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	0.2	DIW	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	0.03	EQS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	0.03	EQS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	0.01	UKDWS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	0		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total PAH											
Total EPA-16 PAHs	µg/l	0.2	0.2	EQS	< 0.20	< 0.20	< 0.20	< 0.2	< 0.20	< 0.2	< 0.20
Heavy Metals / Metalloids											
Antimony (dissolved)	µg/l	1.7	5	UKDWS	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	4	< 1.7
Arsenic (dissolved)	µg/l	1	50	EQS	4.5	13	9.2	7	4	22	5.1
Barium (dissolved)	µg/l	0.05	1000	EQS	120	100	100	150	120	65	84
Beryllium (dissolved)	µg/l	0.2	nc		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Boron (dissolved)	µg/l	10	1000	UKDWS	220	200	210	730	600	150	220
Cadmium (dissolved)	µg/l	0.1	5	UKDWS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chromium (hexavalent)	µg/l	5	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	90	UKDWS	2.4	< 0.4	< 0.4	< 0.4	1.3	0.8	13
Copper (dissolved)	µg/l	0.7	2000	UKDWS	7.7	2.1	3.1	9.9	6.4	32	10
Iron (dissolved)	mg/l	0.004	1	EQS	0.075	0.017	0.032	< 0.004	0.023	0.58	0.047
Lead (dissolved)	µg/l	1	50	EUDWS	2.1	2.7	2.4	1	< 1.0	7.4	< 1.0

Zone A BNL 2012 GI

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 2	Tranche 2	Tranche 2
				Area	Area 2	Area 2	Area 2	Area 2	Area 2	Area 4	Area 4
Lab Sample Number					228883	229426	229424	226273	229621	227638	230408
Sample Reference					WS1221	Duplicate (WS1221)	WS1221	SP3	SP3	TP1208	BH1226
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	Perched water (MG)
Sample Type					Water	Water	Water	Water	Water(bailed)	Water	
Depth (m)					1.70	1.66	1.66	2.70	1.6	3.90	
Date Sampled					27/09/2012	02/10/2012	02/10/2012	07/09/2012	04/10/2012	18/09/2012	11/10/2012
Time Taken					1130	16:51	1700	1205	Not recorded	1140	1200
Temperature at receipt at laboratory		°C			4.9	4.3	4.3	6.2	-	6.8	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria								
Mercury (dissolved)	µg/l	0.5	1	EUDWS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	50	EQS	6.3	2	1.4	5.7	< 0.3	9.2	3
Selenium (dissolved)	µg/l	4	10	EUDWS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	22
Vanadium (dissolved)	µg/l	1.7	100	EQS	8.9	< 1.7	< 1.7	9.1	8.4	100	7
Zinc (dissolved)	µg/l	0.4	300	EQS	9.9	< 0.4	< 0.4	< 0.4	< 0.4	1.6	2.6
			nc								
Calcium (dissolved)	mg/l	0.012	nc		200	160	160	120	78	720	580
Magnesium (dissolved)	mg/l	0.005	nc		10	8	8.4	6.1	8.2	0.64	57
Potassium (dissolved)	mg/l	0.025	nc		41	34	33	33	14	46	36
Sodium (dissolved)	mg/l	0.01	nc		210	180	190	190	97	200	370
			nc								
			nc								
			nc								
Monoaromatics											
Benzene	µg/l	1	1	EUDWS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	29	< 1.0
Toluene	µg/l	1	40	EQS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	200	EQS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	30	EQS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
			nc								
			nc								
Petroleum Hydrocarbons											
			nc								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	15000	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	15000	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	300	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	300	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	300	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	300	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	< 10	< 10
			nc								
TPH-CWG - Aromatic >C5 - C7	µg/l	10	10	WHO 2004	< 10	< 10	< 10	< 10	< 10	29	< 10
TPH-CWG - Aromatic >C7 - C8	µg/l	10	10	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C8 - C10	µg/l	10	120	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C10 - C12	µg/l	10	120	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	120	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	90	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	90	WHO 2004	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	nc		< 10	< 10	< 10	< 10	< 10	29	< 10
			nc								
			nc								
			nc								
VOCs											
Chloromethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-dichloroethene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-dichloroethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

	Tranche				Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 2	Tranche 2	Tranche 2
	Area				Area 2	Area 2	Area 2	Area 2	Area 2	Area 4	Area 4
Lab Sample Number					228883	229426	229424	226273	229621	227638	230408
Sample Reference					WS1221	Duplicate (WS1221)	WS1221	SP3	SP3	TP1208	BH1226
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	Perched water (MG)
Sample Type					Water	Water	Water	Water	Water(bailed)	Water	
Depth (m)					1.70	1.66	1.66	2.70	1.6	3.90	
Date Sampled					27/09/2012	02/10/2012	02/10/2012	07/09/2012	04/10/2012	18/09/2012	11/10/2012
Time Taken					1130	16:51	1700	1205	Not recorded	1140	1200
Temperature at receipt at laboratory	°C				4.9	4.3	4.3	6.2	-	6.8	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria								
Bis(2-chloroethoxy)methane	µg/l	1	3	UKDWS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	29	< 1.0
Tetrachloromethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-dichloropropane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-xylene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Propylbenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-dichlorobenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
P-Isopropyltoluene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-dichlorobenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-dichlorobenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	0.1	nc		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	µg/l	1	nc		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs TICs											
VOCs TICs Compound Name		10	nc		ND	ND	ND	ND	ND	ND	ND
VOC % Match	µg/l	10	nc		ND	ND	ND	ND	ND	ND	ND
SVOCs											
Aniline	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Zone A BNL 2012 GI

				Tranche	Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 2	Tranche 2	Tranche 2
				Area	Area 2	Area 2	Area 2	Area 2	Area 2	Area 4	Area 4
Lab Sample Number					228883	229426	229424	226273	229621	227638	230408
Sample Reference					WS1221	Duplicate (WS1221)	WS1221	SP3	SP3	TP1208	BH1226
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	Perched water (MG)
Sample Type					Water	Water	Water	Water	Water(bailed)	Water	
Depth (m)					1.70	1.66	1.66	2.70	1.6	3.90	
Date Sampled					27/09/2012	02/10/2012	02/10/2012	07/09/2012	04/10/2012	18/09/2012	11/10/2012
Time Taken					1130	16:51	1700	1205	Not recorded	1140	1200
Temperature at receipt at laboratory	°C				4.9	4.3	4.3	6.2	-	6.8	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria								
Bis(2-chloroethoxy)methane	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	20	EQS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.02	nc		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Antraquinone	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	nc		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	nc		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
			nc								
			nc								
SVOCs TICs Compound Name	N/A	nc			ND	ND	ND	ND	ND	ND	
SVOC % Match	N/A	nc			ND	ND	ND	ND	ND	ND	
SVOCs TICs Compound Name	N/A	nc									
SVOC % Match	%	N/A	nc								
SVOCs TICs Compound Name	N/A	nc									
SVOC % Match	%	N/A	nc								
SVOCs TICs Compound Name	N/A	nc									
SVOC % Match	%	N/A	nc								
SVOCs TICs Compound Name	N/A	nc									
SVOC % Match	%	N/A	nc								
		nc									
		nc									
PCBs by GC-MS		nc									
PCB Congener 28	µg/l	0.05	nc			-	< 0.05				
PCB Congener 52	µg/l	0.05	nc			-	< 0.05				

			Tranche		Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 2	Tranche 2	Tranche 2
			Area		Area 2	Area 2	Area 2	Area 2	Area 2	Area 4	Area 4
Lab Sample Number					228883	229426	229424	226273	229621	227638	230408
Sample Reference					WS1221	Duplicate (WS1221)	WS1221	SP3	SP3	TP1208	BH1226
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	during G1	Perched water (MG)
Sample Type					Water	Water	Water	Water	Water(bailed)	Water	
Depth (m)					1.70	1.66	1.66	2.70	1.6	3.90	
Date Sampled					27/09/2012	02/10/2012	02/10/2012	07/09/2012	04/10/2012	18/09/2012	11/10/2012
Time Taken					1130	16:51	1700	1205	Not recorded	1140	1200
Temperature at receipt at laboratory		°C			4.9	4.3	4.3	6.2	-	6.8	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria								
PCB Congener 101	µg/l	0.05	nc			-	< 0.05				
PCB Congener 118	µg/l	0.05	nc			-	< 0.05				
PCB Congener 138	µg/l	0.05	nc			-	< 0.05				
PCB Congener 153	µg/l	0.05	nc			-	< 0.05				
PCB Congener 180	µg/l	0.05	nc			-	< 0.05				
PCBs by GC-MS			nc								
Total PCBs	µg/l	0.4	nc			-	< 0.40				< 0.40
Organochlorine Pesticides (OCP)			nc								
Aldrin	µg/l	0.01	0.03	UKDWS			< 0.01				< 0.01
Alpha-BHC(Lindane)	µg/l	0.01	nc				< 0.01				< 0.01
Beta-BHC(Lindane)	µg/l	0.01	nc				< 0.01				< 0.01
Chlordane (sum of cis & trans isomers)	µg/l	0.01	nc				< 0.01				< 0.01
DDD	µg/l	0.01	nc				< 0.01				< 0.01
DDE	µg/l	0.01	nc				< 0.01				< 0.01
DDT	µg/l	0.01	1	WHO			< 0.01				< 0.01
Dieldrin	µg/l	0.01	0.03	UKDWS			< 0.01				< 0.01
Endosulphan I	µg/l	0.01	nc				< 0.01				< 0.01
Endosulphan II	µg/l	0.01	nc				< 0.01				< 0.01
Endosulphan Sulphate	µg/l	0.01	nc				< 0.01				< 0.01
Endrin	µg/l	0.01	0.1	UKDWS			< 0.01				< 0.01
Gamma-BHC (Lindane)	µg/l	0.01	nc				< 0.01				< 0.01
Heptachlor	µg/l	0.01	nc			-	< 0.01				< 0.01
Heptachlor epoxide	µg/l	0.01	nc			-	< 0.01				< 0.01
Hexachlorobenzene	µg/l	0.01	nc			-	< 0.01				< 0.01
pp-Methoxychlor	µg/l	0.01	nc			-	< 0.01				< 0.01
Propyzamide	µg/l	0.01	nc			-	< 0.01				< 0.01
Organophosphorus Pesticides (OPP)			nc								
Azinphos methyl	µg/l	0.01	nc			-	< 0.01				< 0.01
Diazinon	µg/l	0.01	nc			-	< 0.01				< 0.01
Dichlorvos	µg/l	0.01	nc			-	< 0.01				< 0.01
Ethion	mg/kg	0.01	nc			-	< 0.01				< 0.01
Fenitrothion	µg/l	0.01	nc			-	< 0.01				< 0.01
Malathion	µg/l	0.01	nc			-	< 0.01				< 0.01
Mevinphos	µg/l	0.01	nc			-	< 0.01				< 0.01
Parathion	µg/l	0.01	nc			-	< 0.01				< 0.01
Pirimiphos methyl	µg/l	0.01	nc			-	< 0.01				< 0.01
Organonitrogen Pesticides (ONP)			nc								
Atrazine	µg/l	0	nc			-	< 0.01				< 0.01
Prometryn	µg/l	0	nc			-	< 0.01				< 0.01
Propazine	µg/l	0.01	nc			-	< 0.01				< 0.01
Simazine	µg/l	0	nc			-	< 0.01				< 0.01
Terbutryn	µg/l	0	nc			-	< 0.01				< 0.01
Trietazine	µg/l	0	nc			-	< 0.01				< 0.01
Phenyl Urea Pesticides			nc								
Benazolin	µg/l	0.01	nc			-	< 0.01				< 0.01
Bromoxynil	µg/l	0.01	nc			-	< 0.01				< 0.01
Chlorotoluron	µg/l	0.1	nc			-	< 0.10				< 0.10
Clpyralid	µg/l	0.01	nc			-	< 0.01				< 0.01
Diblubenzuron	µg/l	0.01	nc			-	< 0.01				< 0.01
Dicamb	µg/l	0.01	nc			-	< 0.01				< 0.01
Diclofop	µg/l	0.01	nc			-	< 0.01				< 0.01
Fenoprop	µg/l	0.01	nc			-	< 0.01				< 0.01
Flamprop	µg/l	0.01	nc			-	< 0.01				< 0.01
Fluometuron	µg/l	0.01	nc			-	< 0.01				< 0.01
Loxynil	µg/l	0.01	nc			-	< 0.01				< 0.01

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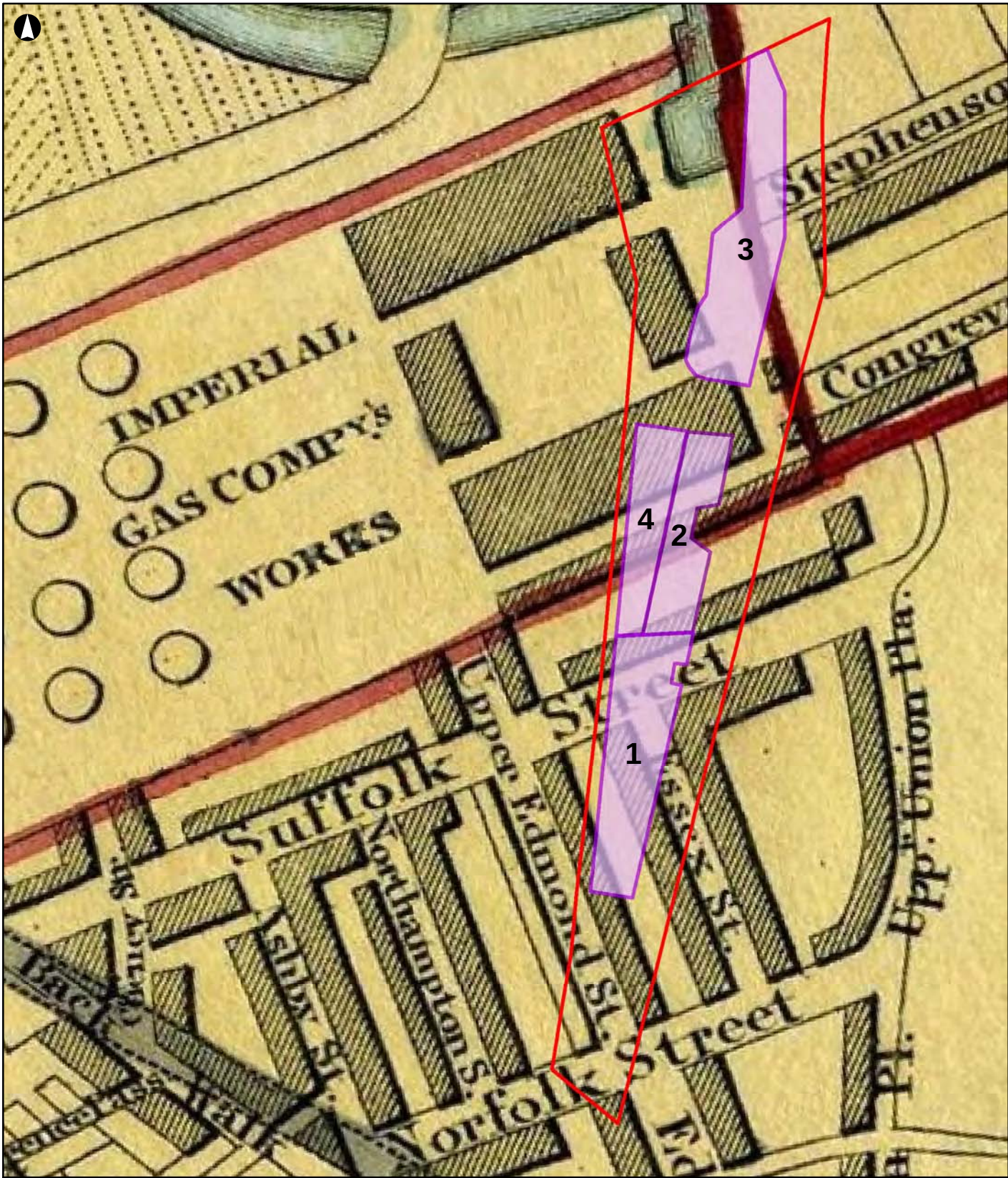
			Tranche		Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 2	Tranche 2	Tranche 2
			Area		Area 2	Area 2	Area 2	Area 2	Area 2	Area 4	Area 4
Lab Sample Number					228883	229426	229424	226273	229621	227638	230408
Sample Reference					WS1221	Duplicate (WS1221)	WS1221	SP3	SP3	TP1208	BH1226
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	during G1	Perched water (MG)
Sample Type					Water	Water	Water	Water	Water(bailed)	Water	
Depth (m)					1.70	1.66	1.66	2.70	1.6	3.90	
Date Sampled					27/09/2012	02/10/2012	02/10/2012	07/09/2012	04/10/2012	18/09/2012	11/10/2012
Time Taken					1130	16:51	1700	1205	Not recorded	1140	1200
Temperature at receipt at laboratory		°C			4.9	4.3	4.3	6.2	-	6.8	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria								
MCPB	µg/l	0.01	nc			-	< 0.01				< 0.01
Pentachlorophenol	µg/l	0.01	nc								
Picloram	µg/l	0.01	nc			-	< 0.01				< 0.01
Propanil	µg/l	0.01	nc			-	< 0.01				< 0.01
Siduron	µg/l	0.01	nc			-	< 0.01				< 0.01
Tebuthiuron	µg/l	0.01	nc			-	< 0.01				< 0.01
Thidiazuron	µg/l	0.01	nc			-	< 0.01				< 0.01
Triclopyr	µg/l	0.01	nc			-	< 0.01				< 0.01
2,4-DE	µg/l	0.01	nc			-	< 0.01				< 0.01
Trifluralin	µg/l	0.01	nc			-	< 0.01				< 0.01
Phenoxy Acetic Acid Herbicides			nc								
Phenoxy Acetic acid herbicide: Mecoprop	µg/l	0.01	nc			-	< 0.01				< 0.01
Phenoxy Acetic acid herbicide: MCPA	µg/l	0.01	nc			-	< 0.01				< 0.01
Phenoxy Acetic acid herbicide: Dichlorprop	µg/l	0.01	nc			-	< 0.01				< 0.01
Phenoxy Acetic acid herbicide: 2,4-D	µg/l	0.01	nc			-	< 0.01				< 0.01
Phenoxy Acetic acid herbicide: Fenoprop	µg/l	0.01	nc			-	< 0.01				< 0.01
Phenoxy Acetic acid herbicide: 2,4,5-T	µg/l	0.01	nc			-	< 0.01				< 0.01
Glycols			nc								
Ethylene Glycol	mg/l	10	nc				< 10				< 10
Propylene Glycol	mg/l	10	nc				< 10				< 10
Triethylene Glycol	mg/l	10	nc				< 10				< 10
1,3 Butanediol	mg/l	10	nc				< 10				< 10
1,3 Propanediol	mg/l	10	nc				< 10				< 10
1,4 Butanediol	mg/l	10	nc				< 10				< 10
Diethylene Glycol	mg/l	10	nc				< 10				< 10
Alcohols			nc								
Ethanol	µg/l	10	nc				< 10				< 10
n-Butanol	mg/l	10	nc				< 10				< 10
Methanol	mg/l	10	nc				< 10				< 10
Propyl Alcohol	mg/l	10	nc				< 10				< 10
Propan-2-ol	mg/l	10	nc				< 10				< 10
PCB Congener 77	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 81	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 105	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 114	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 118	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 123	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 126	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 156	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 157	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 167	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 169	ug/l	0.02	nc				< 0.02				< 0.02
PCB Congener 189	ug/l	0.02	nc				< 0.02				< 0.02
Total PCBs	ug/l	0.3	nc				< 0.30				< 0.30
Dioxins and Furans			nc								
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin			nc								0.018
1,2,3,4,6,7,8-Heptachlorodibenzofuran			nc								0.03
1,2,3,4,7,8,9-Heptachlorodibenzofuran			nc								0.003
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin			nc								ND
1,2,3,4,7,8-Hexachlorodibenzofuran			nc								0.004

Zone A BNL 2012 GI

			Tranche		Tranche 2	Tranche 2	Tranche 2	Tranche 1A	Tranche 2	Tranche 2	Tranche 2
			Area		Area 2	Area 2	Area 2	Area 2	Area 2	Area 4	Area 4
Lab Sample Number					228883	229426	229424	226273	229621	227638	230408
Sample Reference					WS1221	Duplicate (WS1221)	WS1221	SP3	SP3	TP1208	BH1226
Strata					Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	Perched water (MG)	during GI	Perched water (MG)
Sample Type					Water	Water	Water	Water	Water(bailed)	Water	
Depth (m)					1.70	1.66	1.66	2.70	1.6	3.90	
Date Sampled					27/09/2012	02/10/2012	02/10/2012	07/09/2012	04/10/2012	18/09/2012	11/10/2012
Time Taken					1130	16:51	1700	1205	Not recorded	1140	1200
Temperature at receipt at laboratory	°C				4.9	4.3	4.3	6.2	-	6.8	4.80
Analytical Parameter (Water Analysis)	Units	Limit of detection	Screening criteria								
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin			nc								0.002
1,2,3,6,7,8-Hexachlorodibenzofuran			nc								0.006
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin			nc								ND
1,2,3,7,8,9-Hexachlorodibenzofuran			nc								ND
1,2,3,7,8-Pentachlorodibenzo-p-dioxin			nc								ND
1,2,3,7,8-Pentachlorodibenzofuran			nc								0.003
2,3,4,6,7,8-Hexachlorodibenzofuran			nc								0.006
2,3,4,7,8-Pentachlorodibenzofuran			nc								0.003
2,3,7,8-Tetrachlorodibenzo-p-dioxin			nc								ND
2,3,7,8-Tetrachlorodibenzofuran			nc								ND
Octachlorodibenzo-p-dioxin			nc								0.028
Octachlorodibenzofuran			nc								0.032
Total Non-2,3,7,8-Heptachlorodibenzo-p-dioxins			nc								NR
Total Non-2,3,7,8-Heptachlorodibenzofurans			nc								NR
Total Non-2,3,7,8-Hexachlorodibenzo-p-dioxins			nc								NR
Total Non-2,3,7,8-Hexachlorodibenzofurans			nc								NR
Total Non-2,3,7,8-Pentachlorodibenzo-p-dioxins			nc								NR
Total Non-2,3,7,8-Pentachlorodibenzofurans			nc								NR
Total Non-2,3,7,8-Tetrachlorodibenzo-p-dioxins			nc								NR
Total Non-2,3,7,8-Tetrachlorodibenzofurans			nc								NR

Appendix E

Historic Maps



Legend

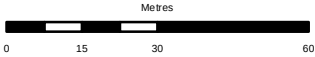
— Zone A boundary

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Client
Kings Cross Central Limited Partnership

Job Title
Zone A Enabling Works - ERP



1834 Bartlett Map

Scale at A4

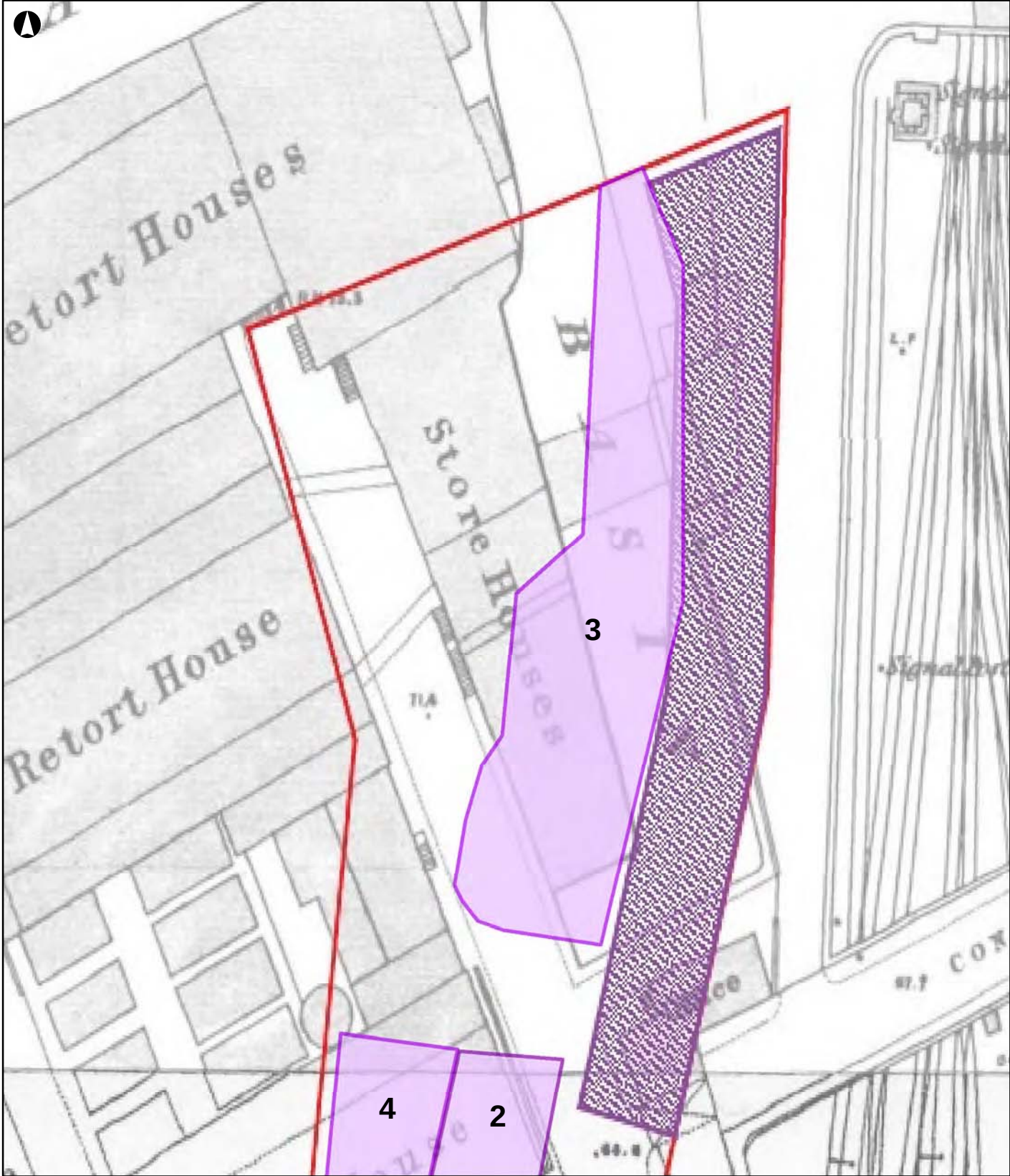
1:1,500

Job No
219902-00

Drawing Status
Issue

Drawing No
Figure E1

Issue
P1



Legend

— Zone A boundary

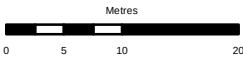
Access Ramp (North)

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Historical OS map 1871

Scale at A4

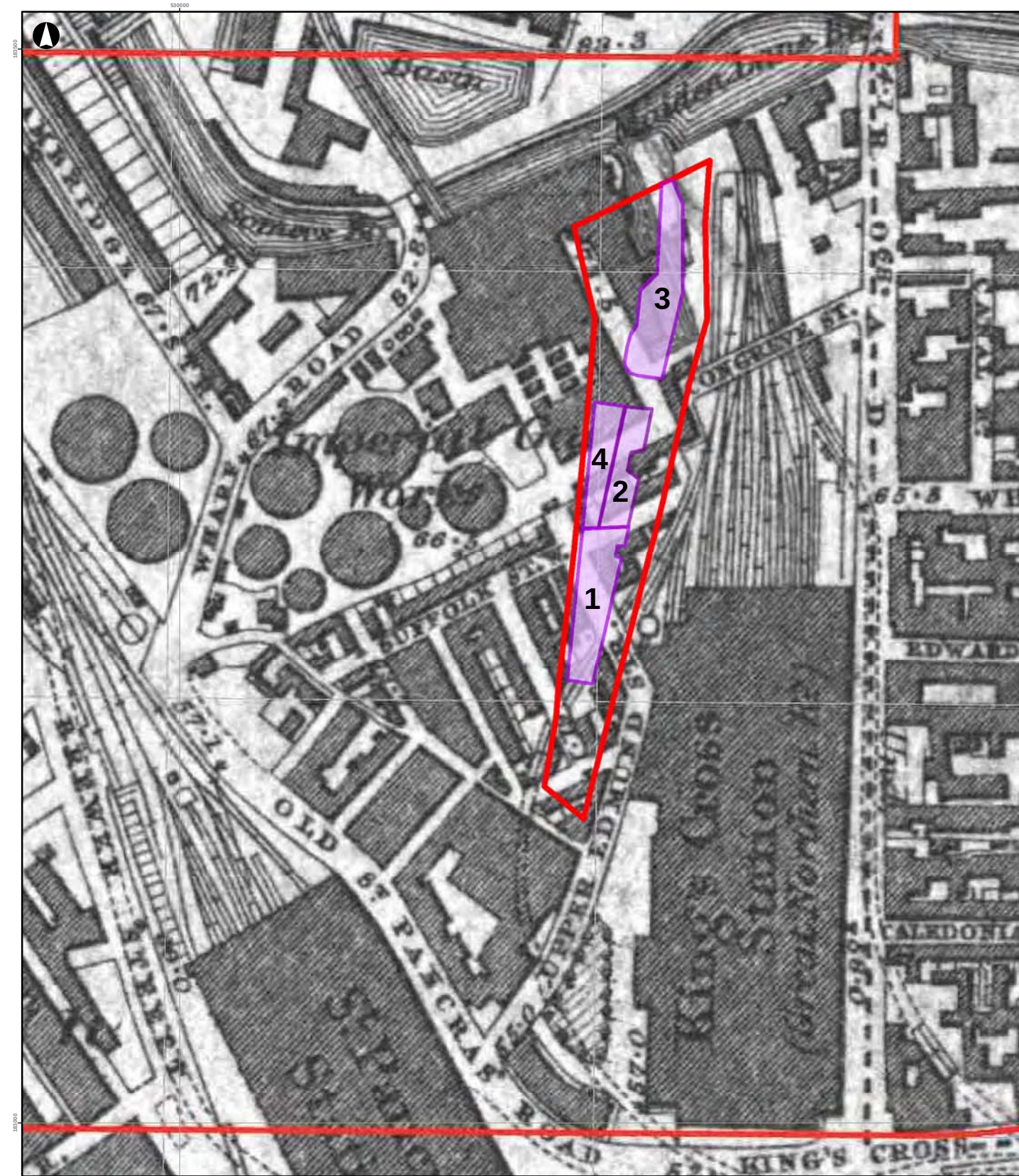
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Job No
219902

Drawing Status
Issue

Drawing No
Figure E2

Issue
P1



Legend

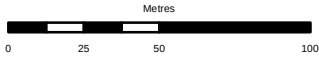
— Zone A boundary

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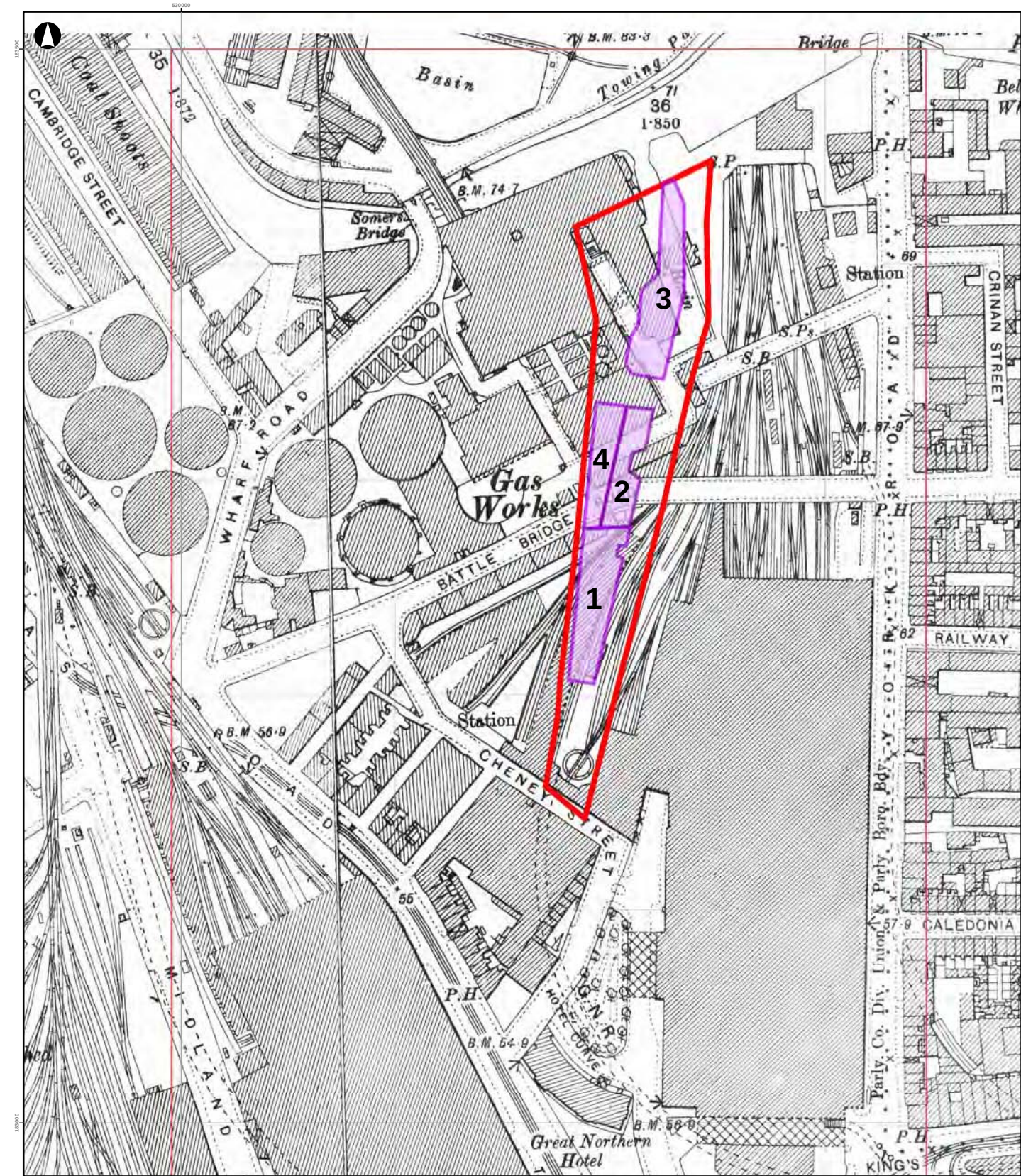
Job Title
Zone A Enabling Works - ERP



Historical OS map 1877

Scale at A4
1:2,500

Job No 219902-00	Drawing Status Issue
Drawing No Figure E3	Issue P1



Legend

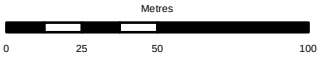
— Zone A boundary

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Argent Estates Limited

Job Title
Zone A - Interpretative report



Historical OS map 1894 - 1896

Scale at A4
1:2,500

Job No 219902-00	Drawing Status Issue
Drawing No Figure E4	Issue P1



Legend

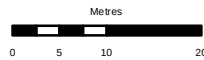
- Access Ramp (North)
- Zone A boundary

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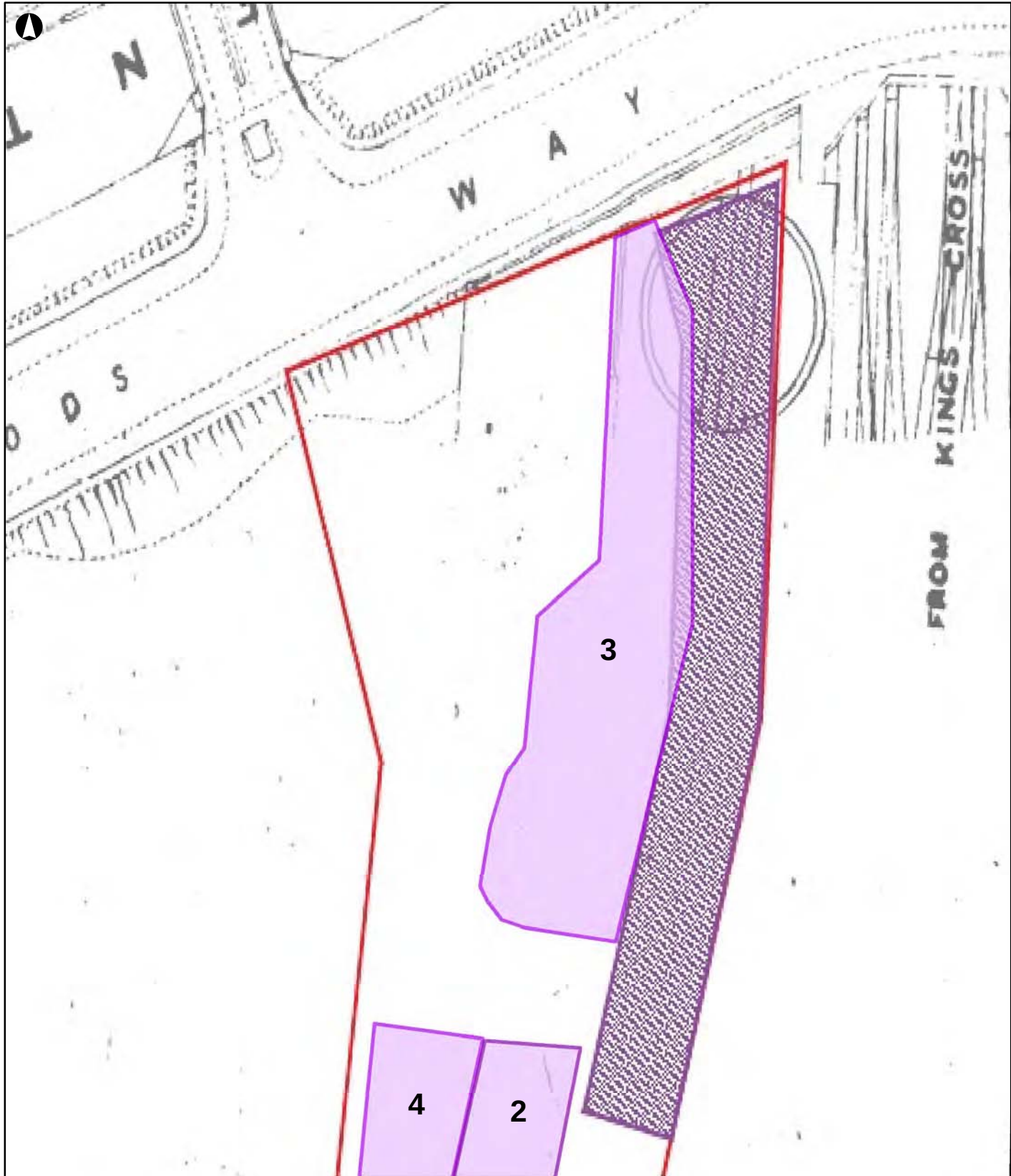
Job Title
Zone A Enabling Works - ERP



Historical Goad Insurance Plan 1921

Scale at A4
1:800

Job No 219902	Drawing Status Issue
Drawing No Figure E5	Issue P1



Legend

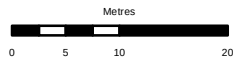
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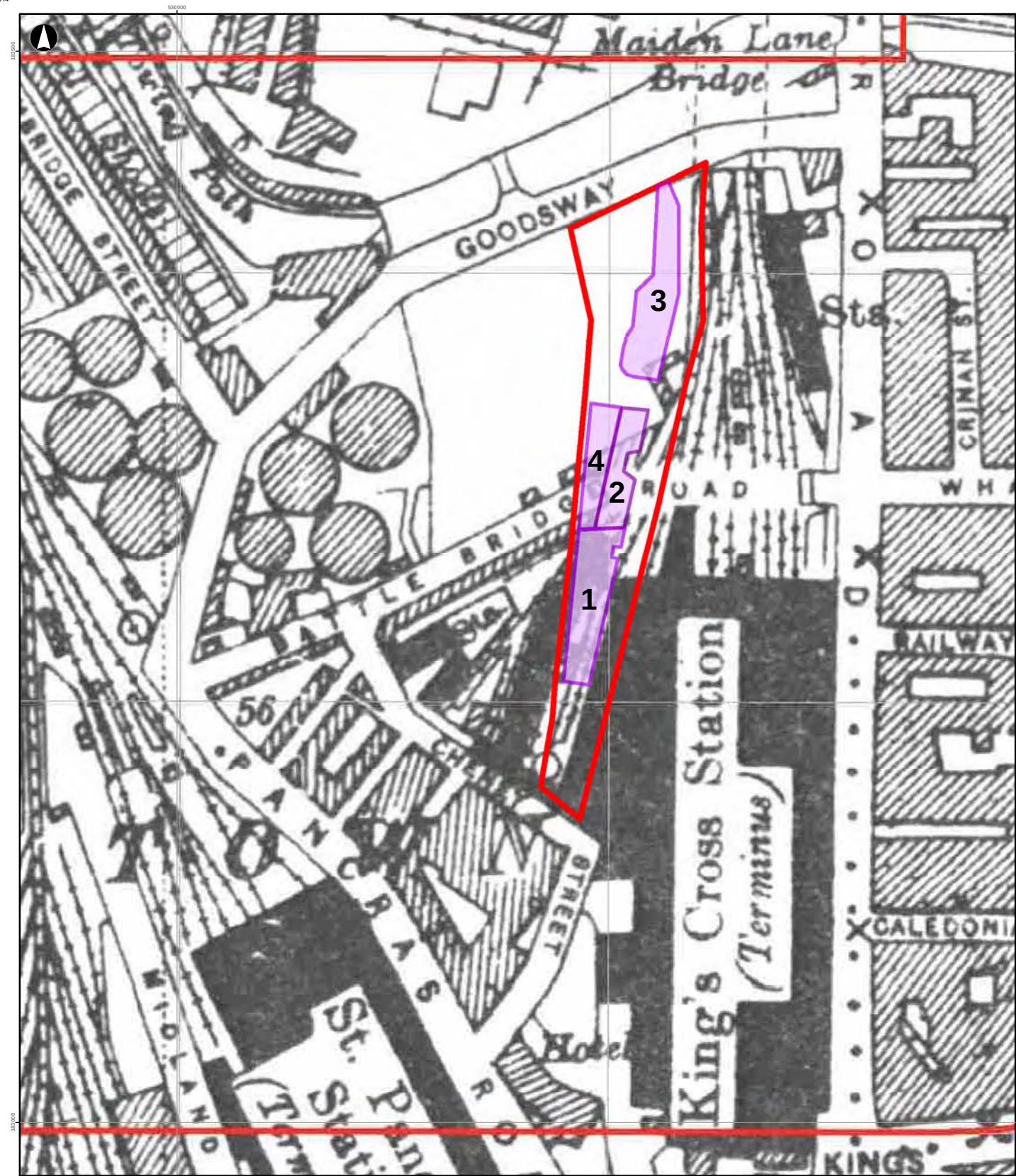
Job Title
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Historical LNER Plan 1933

Scale at A4
1:700

Job No 219902	Drawing Status Issue
Drawing No Figure E6	Issue P1



Legend

Zone A boundary

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Scale at A4

1:2,500

Job No	Drawing Status
219902-00	Issue
Drawing No	Issue
Figure E7	P1

Client

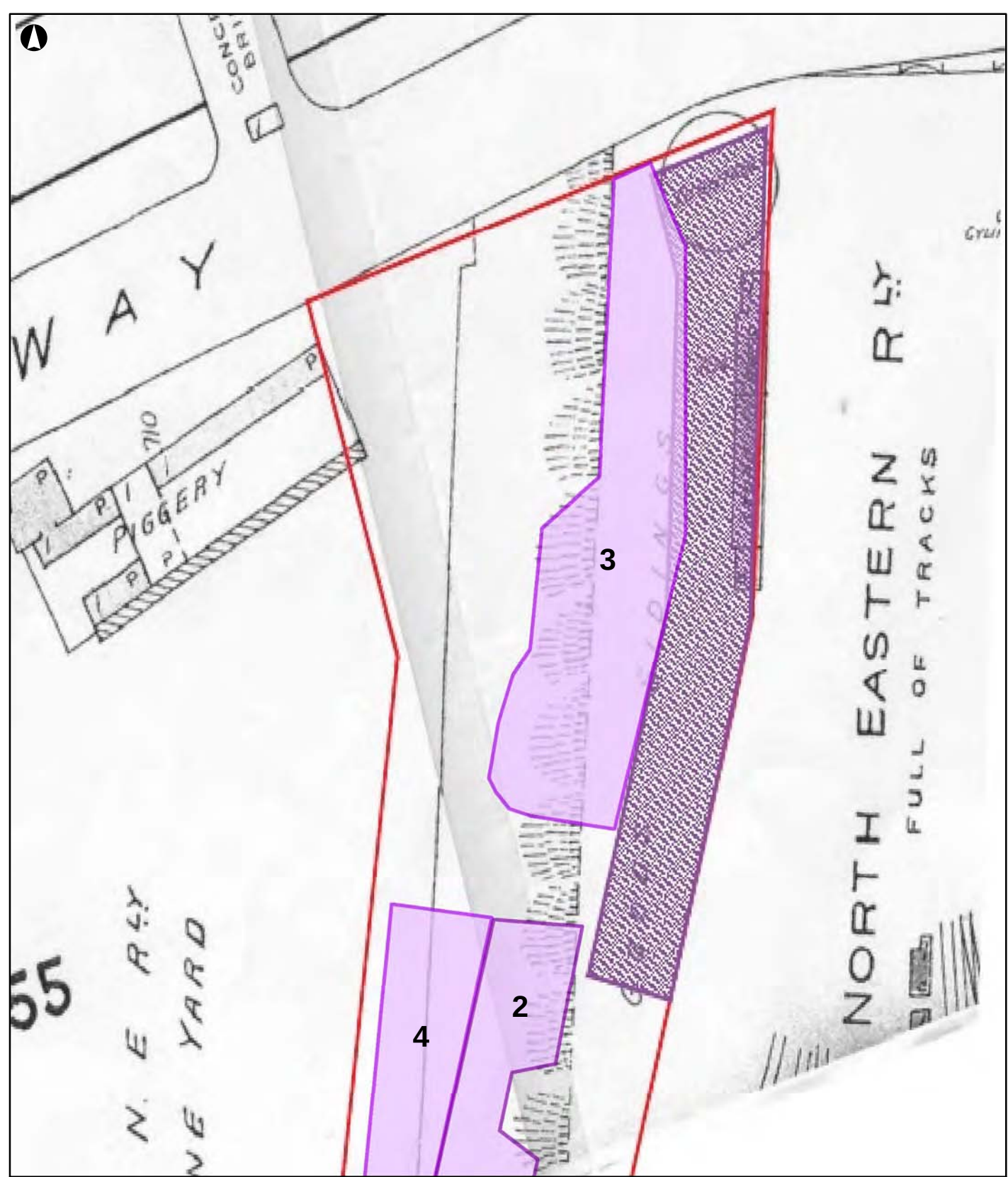
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Job Title

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P1	08/02/2013	EF	VC	RO
Issue	Date	By	Chkd	Appd



Legend

Access Ramp (North)

Zone A boundary

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Scale at A4

1:750

Job No	Drawing Status
219902	Issue
Drawing No	Issue
Figure E8	P1

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Job Title

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P1	31-10-12	EF	VC	RO
Issue	Date	By	Chkd	Appd



Legend

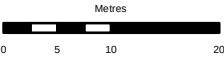
- Access Ramp (North)
- Zone A boundary

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Historical OS map 1953

Scale at A4

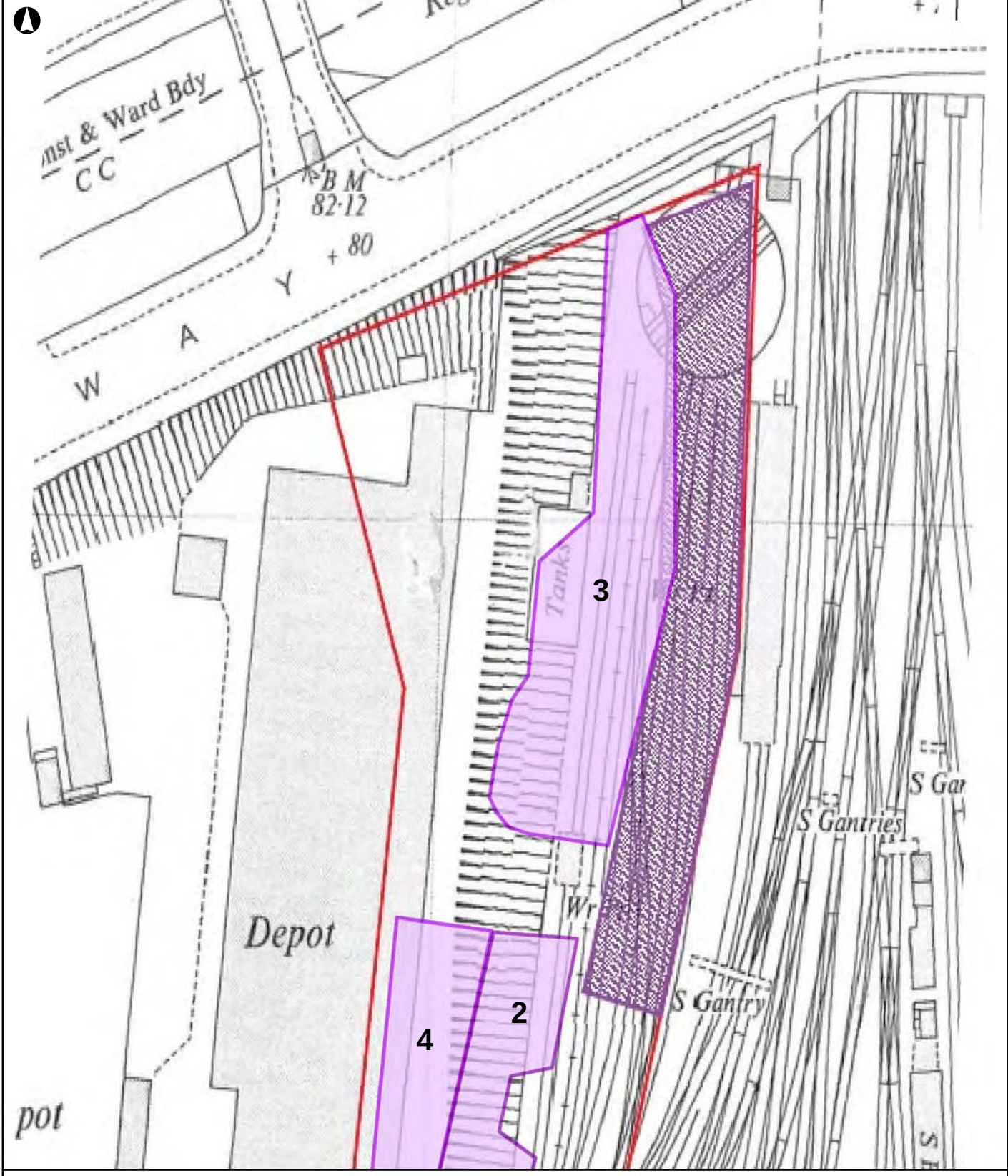
1:700

Job No
219902

Drawing Status
Issue

Drawing No
Figure E9

Issue
P1



Legend

- Access Ramp (North)
- Zone A boundary

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Historical OS map 1963

Scale at A4

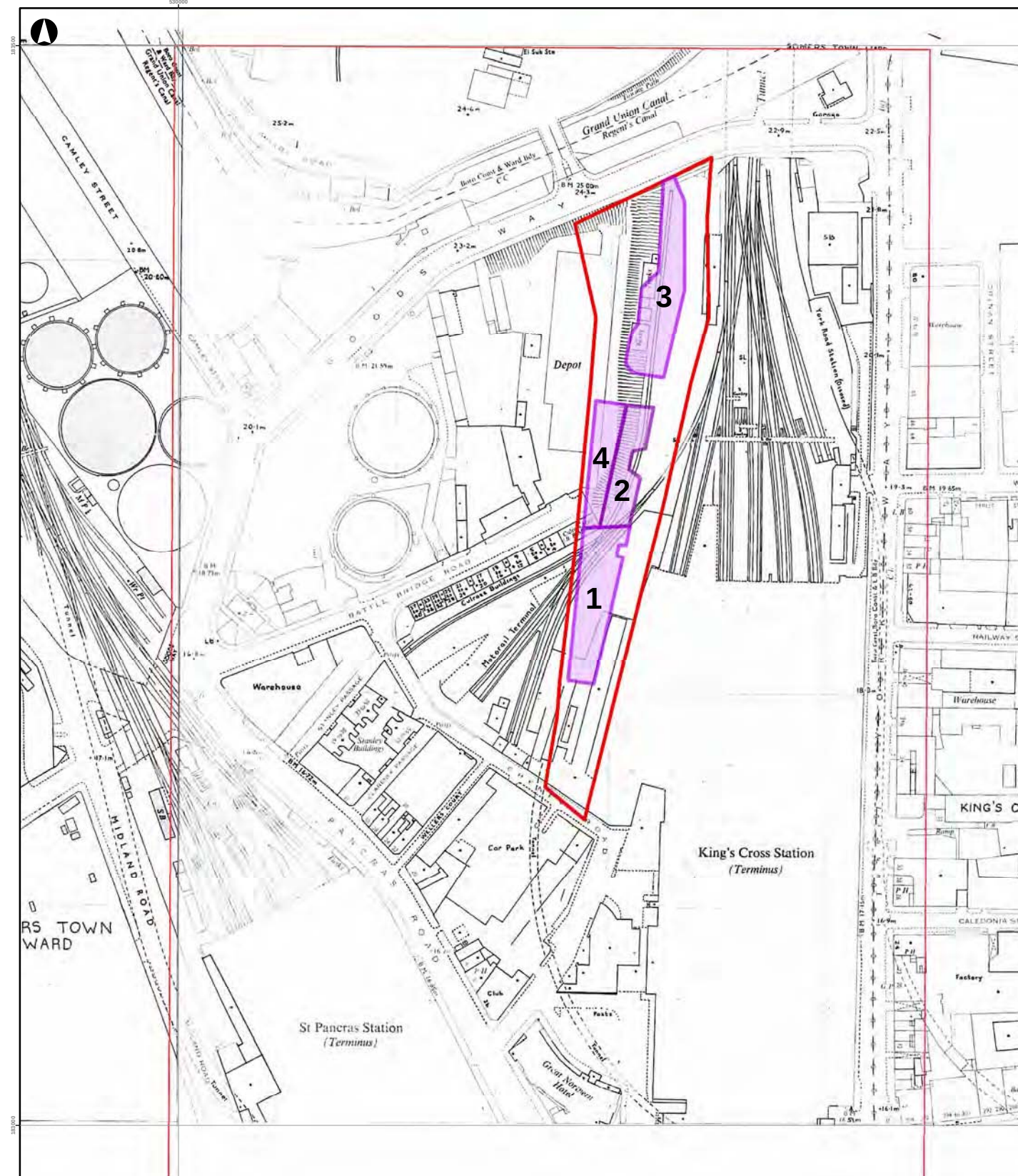
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Job No
219902

Drawing Status
Issue

Drawing No
Figure E10

Issue
P1

**Legend**

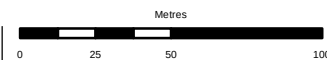
- Access Ramp (North)
- Zone A boundary

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Historical OS map 1982 - 1986

Scale at A4

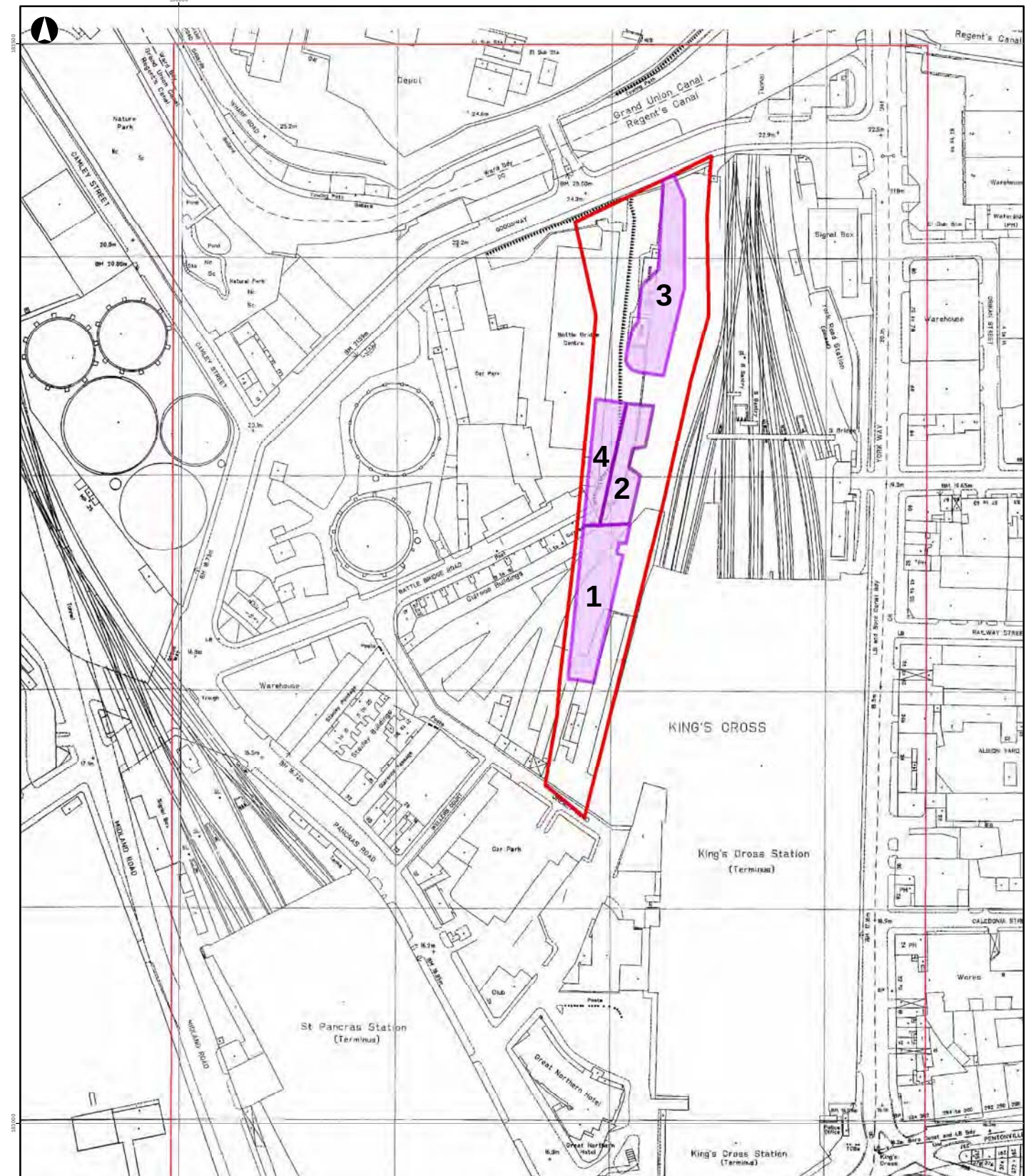
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Job No
219902

Drawing Status
Issue

Drawing No
Figure E11

Issue
P1

**Legend**

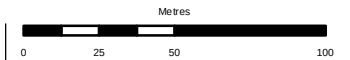
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Historical OS map 1992 - 1994

Scale at A4

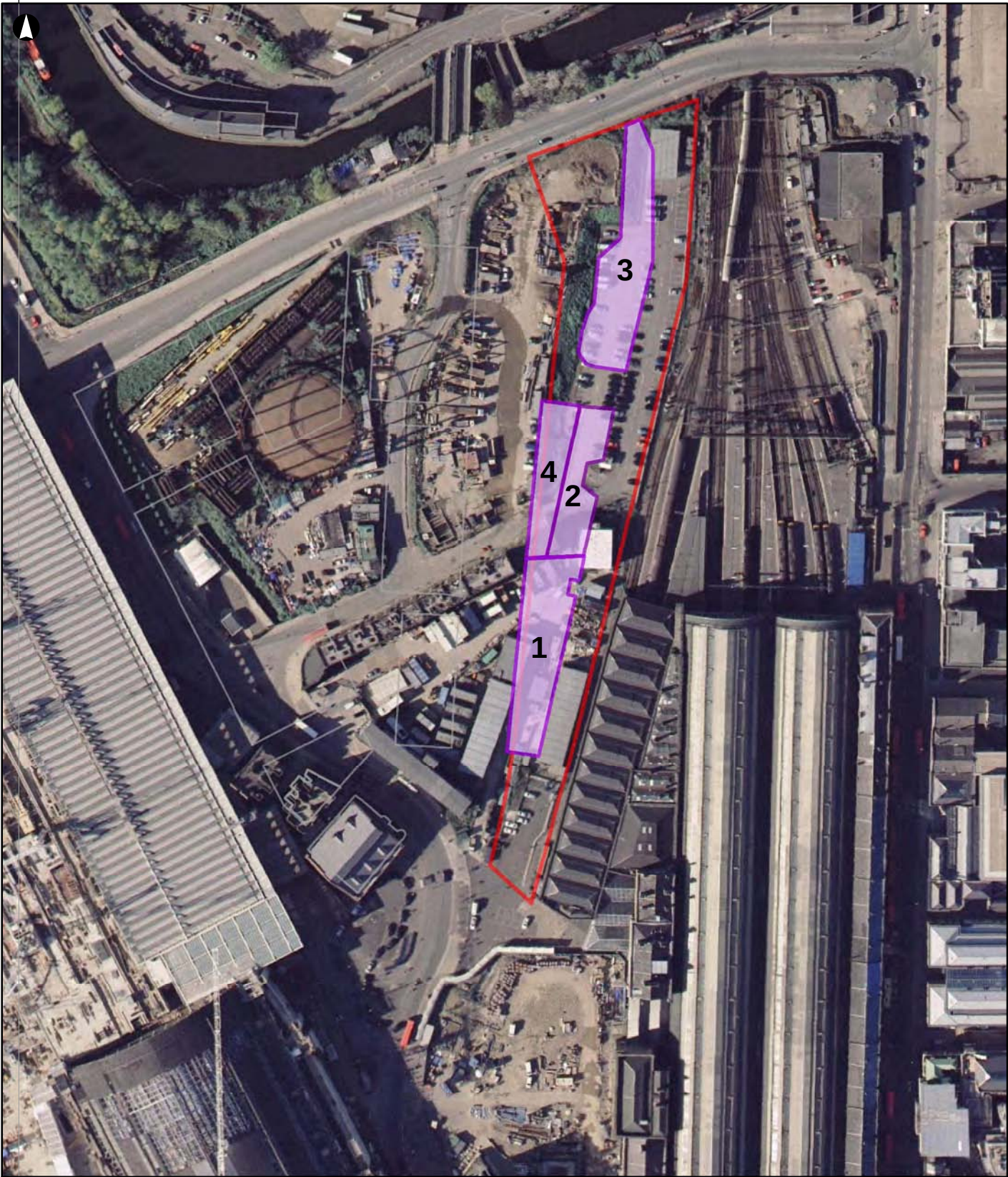
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Job No
219902

Drawing Status
Issue

Drawing No
Figure E12

Issue
P1



Legend

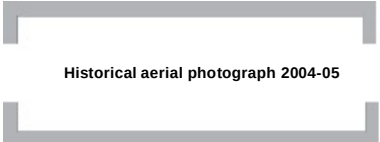
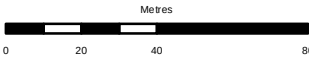
- Access Ramp (North)
- Zone A Boundary

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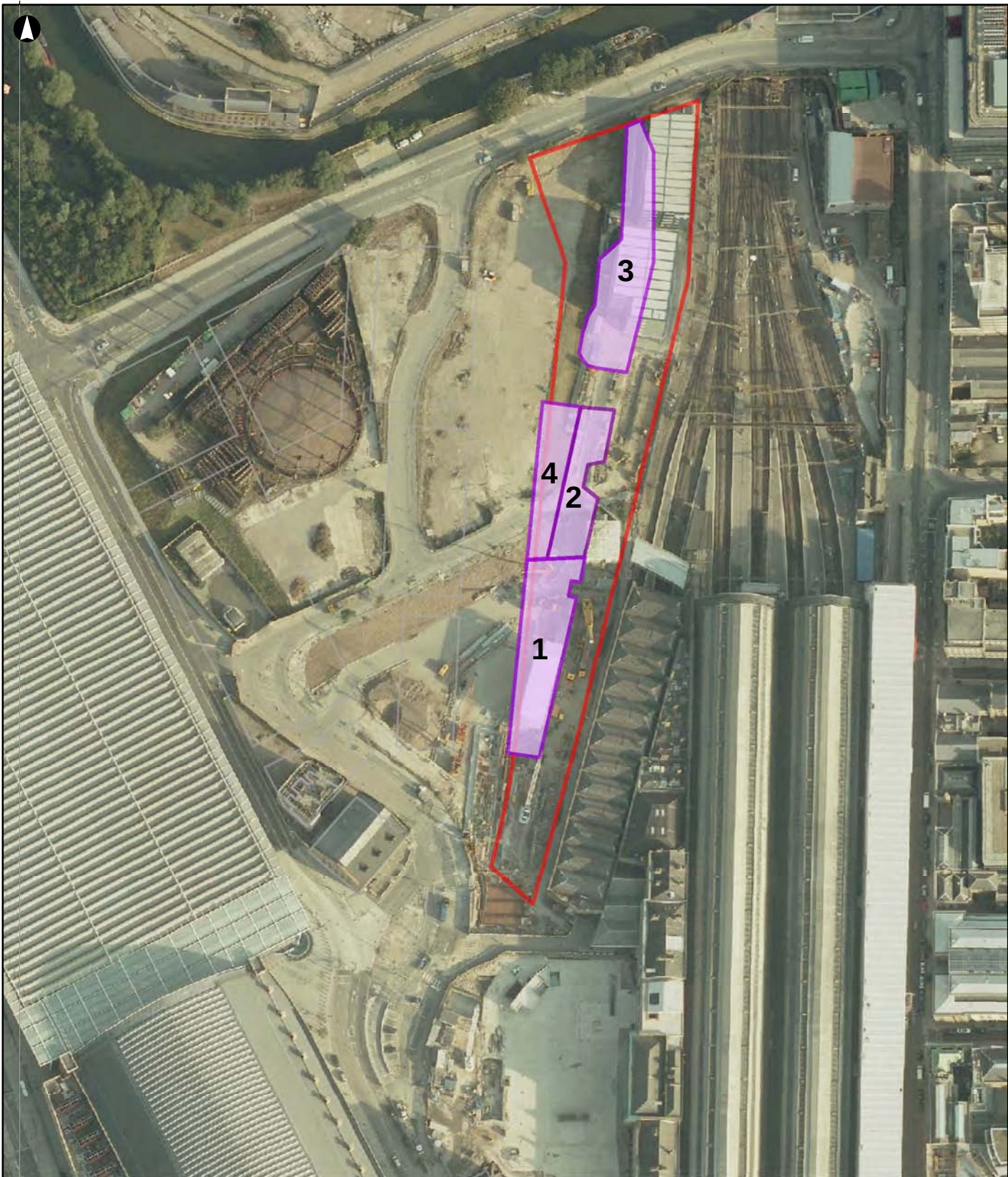
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Scale at A4
1:2,000

Job No 219902	Drawing Status Issue
Drawing No Figure E13	Issue P1



Legend

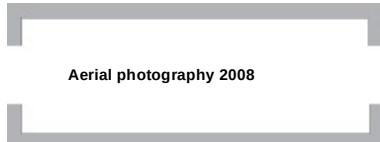
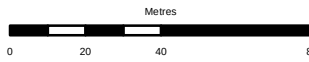
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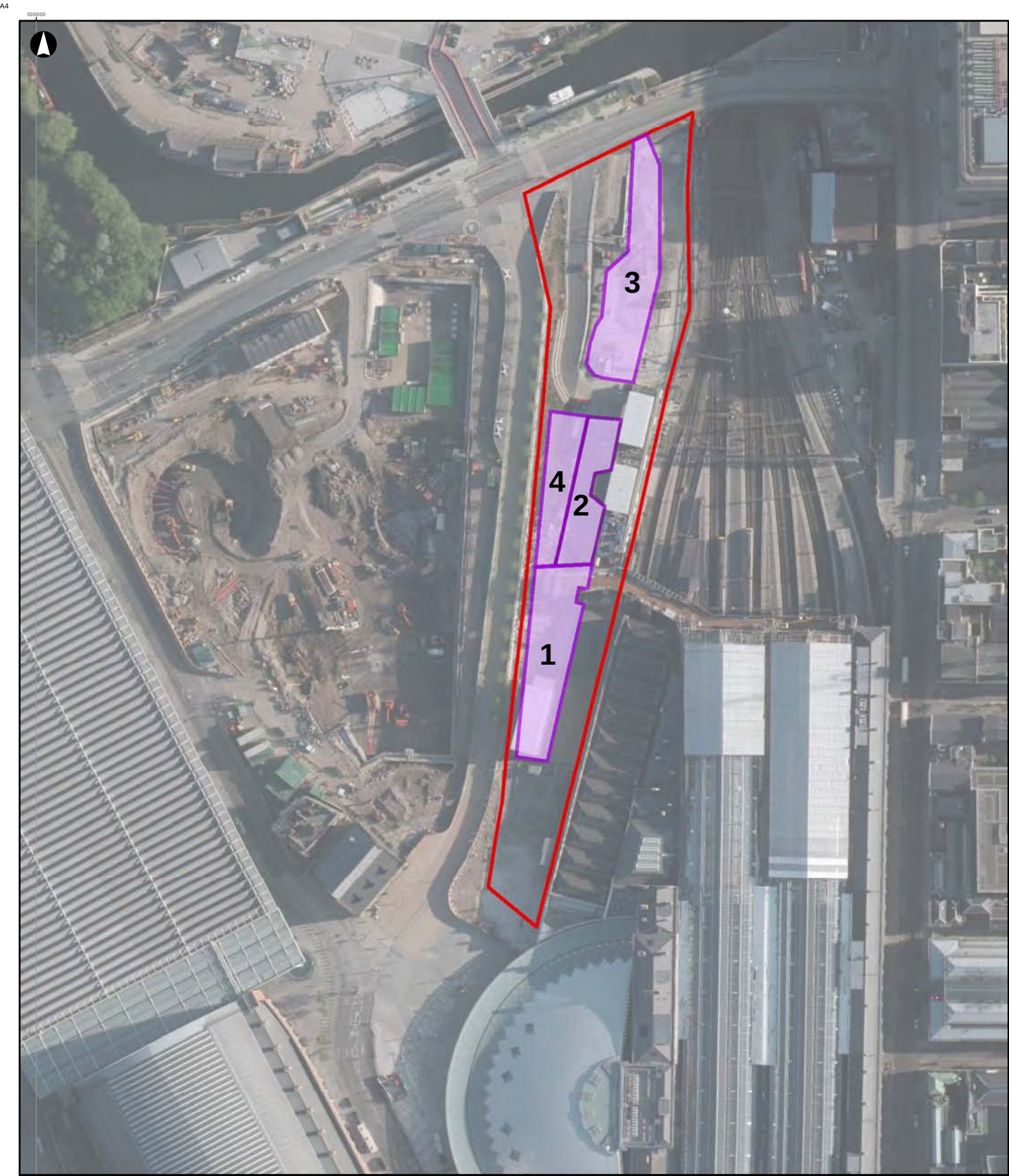
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Scale at A4
1:2,000

Job No 219902-00	Drawing Status Issue
Drawing No Figure E14	Issue P1



Legend

- Access Ramp (North)
- Zone A boundary

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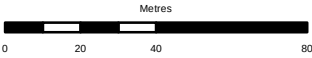
P1	08/02/2013	EF	RO	RO
Issue	Date	By	Chkd	Appd

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Aerial photography 2012

Scale at A4
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Drawing No Figure E15	Issue P1

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