

Sample Reference	SS1	SS2	SS3	SS4	SS5	Method No	Units	Lot	Analysis
Dichlorodifluoromethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Chloromethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Vinyl Chloride	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
Bromoform	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Chloroform	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
1,1-Dichloroethane	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
1,2-Dichloroethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
1,1,1-Trichloroethane	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
1,1,2-Trichloroethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
2,2-Dichloropropane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Benzene	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
Carboxin Trichloride	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Dibromomethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Trichloroethylene	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
1,2-Dichloropropene	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
Cis-1,3-Dichloropropene	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Trans-1,3-Dichloropropene	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
1,1,2-Trichloroethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Bromochloromethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Cis-1,2-Dichloroethene	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
1,1-Dichloroethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
MTEB	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
Trans-1,2-Dichloroethene	< 25	< 250	< 25	< 250	0715	ug/kg	25		
Carbon Disulfide	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Dichloromethane	< 50	< 500	< 50	< 500	0715 ₁	ug/kg	50		
112-Trichloro-122-Trifluoroethane	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
1,1-Dichloroethene	< 25	< 250	< 25	< 250	0715	ug/kg	25		
Trichlorofluoromethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Chloroethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Bromomethane	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
Vinyl Chloride	< 25	< 250	< 25	< 250	0715 ₁	ug/kg	25		
Chloromethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
Dichlorodifluoromethane	< 25	< 250	< 25	< 250	0715 _{1m}	ug/kg	25		
* * VOC SUITE * *									

Project Code: HL12690

Matrix : Soil

Job Number : 07-42169

Client : RPS Health Safety Environment

ALCONTROL TECHNICHEM

Table Of Results

Project Code: HL12690
 Matrix : Soil
 Job Number : 07-42169

Table Of Results

ALControl Techniche

Sample Reference	SS1	SS2	SS3	SS4	SS5	Method No.	Units	LOD	** VOC SUITE Cont.. **																																			
									Toluene	1,3-Dichloropropane	1,2-Dibromoethane	Dibromochloromethane	1,1,2-Tetrachloroethane	Ethyl Benzene	m,p-Xylenes	Bromoform	Styrene	O-Xylene	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	n-propylbenzene	2-Chlorotoluene	4-Chlorotoluene	1,3,5-Trimethylbenzene	tert-butylbenzene	1,2,4-Trimethylbenzene	sec-butylbenzene	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene	n-butylbenzene	1,2,4-Trichlorobenzene												
0.15	0.1	0.2	0.15	0.15					<25	<25	<25	<25	<250	<250	<250	<25	071S ₁	071S ₁	071S ₁	071S _{1M}	071S _{1M}	071S _{1M}	071S ₁	071S _{1M}	071S _{1M}	071S _{1M}	071S ₁	071S ₁	<25	071S ₁	071S ₁	071S ₁	071S ₁	071S ₁	071S ₁									
15/11/07	15/11/07	19/11/07	15/11/07	15/11/07					278441	278442	27843‡	278444	278445‡	19/11/07	19/11/07	15/11/07	15/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07	19/11/07						
15/11/07									Analysis																																			

Denotes detection limits raised due to matrix interference.
 * MERTS accredited for sand, loam and clay.
 ISO 17025 accredited.

Table Of Results
Alcontral Technicheem

Sample Reference	Sample Depth (m)	Units	LOD	Method No	* VOC SUITE Cont.. *											
					SS1	SS2	SS3	SS4	SS5	1,2-Dibromo-3-Chloropropane	< 25	< 250	< 25	0715 ^r	ug/kg	25
Hexachlorobutadiene	< 50	< 50		278441	278442	278443 ^f	278444	278445 ^f		1,2,3-Trichlorobenzene	< 25	< 250	< 25	0715	ug/kg	25
1,2-Dibromo-3-Chloropropane	< 25	< 25		19/11/07	19/11/07	19/11/07	19/11/07	19/11/07		* VOC SUITE Cont.. *						
Date Sampled	15/11/07	15/11/07		15/11/07	15/11/07	15/11/07	15/11/07	15/11/07		Analysls						
Date Scheduled	15/11/07	15/11/07		19/11/07	19/11/07	19/11/07	19/11/07	19/11/07		Laboratory Reference No						
Sample Reference	0.15	0.1		0.2	0.15	0.15	0.15	0.15								

LOD	Units	Method No	Sample Reference		
			SS6	0.15	15/11/07
			Date Sampled	19/11/07	Date Scheduled
			Labatory Reference No	278446†	Analylsis
			VOC SUITE Cont.		1,2-Dibromo-3-Chloropropane
				< 250	071S ug/kg 25
				< 500	071S ug/kg 50
				< 250	1,2,3-Trichlorobutadiene
				< 250	071S ug/kg 25

Client : RPS Health Safety Environment

Project Code: HL12690

Matrix : Soil

Job Number : 07-42169

Table Of Results
Alcontral Techniche

ALcontrol Technichem

Table Of Results - Appendix

Job Number : 07-42169

Project Code: HLI2690

Client : RPS Health Safety Environment

Summary of methods contained within report:

Method No.	Reference	Description	Wet/Dry	Analysis
			W	D
071S	In-house method based on EPA624 "Volatile Organic Compounds in Soils/Sludges"	Determination of volatile organic compounds in soil samples by headspace GC-MS	W	
061S	In-house method based on Method 4500-CN, "Standard Methods for the Examination of Water and Waste Water", APHA AWWA WEF, Edition 18, 1992	Determination of cyanides and thiocyanate in soil samples by continuous flow colorimetry (Skalar)	W	
022S	In-house method	Determination of PAH compounds in soil samples by hexane / acetone extraction followed by GC-MS detection	W	
CWGS	In-house method based on "Total Petroleum Hydrocarbon Criteria Working Group" series, 1998-9	Determination of "CWG" banded petroleum hydrocarbons in soil samples using a combination of headspace GC-FID (C5-C12) and hexane/acetone extraction/ silica-alumina aliphatic - aromatic split / GC-FID (C12-C35) techniques with banding by comparison to alkane standards	W	
077S	In-house method	Determination of organophosphorus pesticides in soil samples by hexane/acetone extraction followed by GC-MS detection	W	
076S	In-house method	Determination of organochlorine pesticides in soil samples by hexane/acetone extraction followed by GC-MS detection	W	
084S	In-house method referencing BS1377: Part 3: 1990 and Second Site Property Environmental Assessment Guidance Version 3: March 2003	Determination of pH by addition of water followed by electrometric measurement	D	
069S	In-house method based on MEWAM "Methods for the Determination of Metals in Soil", HMSO, 1986	Determination of metals in soil samples by aqua-regia digestion followed by ICP-OES detection	D	
025a	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of hydrochloric acid soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D	

ALcontrol Technichem

Table Of Results - Appendix

Job Number : 07-42169
 Project Code: HLI2690

Client : RPS Health Safety Environment

Summary of methods contained within report:

Method No.	Reference	Description	Wet/Dry Analysis
016S	In-house method	Determination of water soluble boron by 2:1 extraction in hot water followed by ICP-OES detection	D
METS	In-house method based on MEWALM "Methods for the Determination of Metals in Soil", HMSO, 1986	Determination of metals in soil samples by aqua-regia digestion followed by ICP-OES detection	D
073S	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of water soluble anion content in soils using a 2:1 water:soil extraction ratio followed by ion chromatographic determination with electrical conductivity detector	D
007S	In-house method based on Method 3500-Cr, "Standard Methods for the Examination of Water and Waste Water", APHA AWWA WEF, Edition 18, 1992	Determination of hexavalent chromium in soil samples by water extraction and colorimetric detection	D

Soil results are expressed on a dry weight basis. Where the test uses as-received sample, a moisture correction factor is applied to the wet weight result. This factor is determined gravimetrically using weight loss on drying at 30° (+/-5) C.

Sample Reference	Sample Depth (m)	Method No	Units	LOD	Table Of Results	
					S1	S2
Analysls						
Laboratory Reference No	282085	282086				
Date Sampled	03/12/07	03/11/07				
Sample Depth (m)	-	-				
Project Name: Dunlap Aerospacce						
Job Number: 07-42901						
Matrix : Water						
Client : RPS Health Safety Environment						
Project Code: HL12989						
Arsenic (Dissolved)	< 0.005	< 0.005	mg/l	0.005		
Barium (Dissolved)	0.068	0.070	mg/l	0.005		
Beryllium (Dissolved)	< 0.001	< 0.001	mg/l	0.001		
Boron (Dissolved)	0.16	0.16	mg/l	0.005		
Cadmium (Dissolved)	< 0.001	< 0.001	mg/l	0.001		
Chromium (Dissolved)	0.005	0.006	mg/l	0.005		
Chromium (Hexavalent)	< 0.01	< 0.01	mg/l	0.01		
Copper (Dissolved)	0.059	0.040	mg/l	0.005		
Iron (Dissolved)	< 0.02	< 0.02	mg/l	0.02		
Lead (Dissolved)	< 0.005	< 0.005	mg/l	0.005		
Mercury (Dissolved)	< 0.00005	< 0.00005	mg/l	0.00005		
Nickel (Dissolved)	< 0.005	< 0.005	mg/l	0.005		
Selenium (Dissolved)	< 0.005	< 0.005	mg/l	0.005		
Zinc (Dissolved)	0.060	0.017	mg/l	0.005		
Total Cyanide	< 0.02	< 0.02	mg/l	0.02		
Nitrate as N	10	11	mg/l	0.5		
pH	7.2	7.1	PH Units	1		
Sulphate as SO ₄	79	82	mg/l	10		
alpha-HCH	< 0.1	< 0.1	ug/l	0.1		
beta-HCH	< 0.1	< 0.1	ug/l	0.1		
gamma-HCH (indane)	< 0.1	< 0.1	ug/l	0.1		
Heptachlor	< 0.1	< 0.1	ug/l	0.1		
Aldrin	< 0.1	< 0.1	ug/l	0.1		
o,p-DDE	< 0.1	< 0.1	ug/l	0.1		
alpha-Endosulfhan	< 0.1	< 0.1	ug/l	0.1		
o,p-TDE	< 0.1	< 0.1	ug/l	0.1		

ALCONTROL Technichem

Table Of Results

Project Name: Dunlap Aerospacce
Job Number: 07-42901
Matrix : Water
Client : RPS Health Safety Environment
Project Code: HL12989

Sample Reference	Sample Depth (m)	Method No	S1	S2	** PAH SUITE **		
			Date Sampled	Date Scheduled	Lab No	Analysis	
Naphthalene	0.0007	0.0005	022W ₁	mg/l	0.0001	Aceanaphthylene	
Acenaphthylene	0.0002	0.0001	022W ₁	mg/l	0.0001	Fluorene	
Phenanthrene	< 0.0001	< 0.0001	022W ₁	mg/l	0.0001	Anthracene	
Fluoranthene	< 0.0001	< 0.0001	022W ₁	mg/l	0.0001	Pyrene	
Chrysene	< 0.0001	< 0.0001	022W ₁	mg/l	0.0001	Benz(a)anthracene	
Benz(b)fluoranthene	< 0.0001	< 0.0001	022W ₁	mg/l	0.0001	Indeno(1,2,3-cd)pyrene	
Benz(a)pyrene	< 0.0001	< 0.0001	022W ₁	mg/l	0.0001	Dibenz(a,h)anthracene	
Benzo(a)pyrene	< 0.0001	< 0.0001	022W ₁	mg/l	0.0001	Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	< 0.0001	< 0.0001	022W ₁	mg/l	0.0001	PAH (Sum of EPA 16)	
PAH (Sum of EPA 16)							

Project Name: DuNlap Aerospace
Job Number: 07-42901
Client: RPS Health Safety Environment
Matrix: Water

Project Code: HL12989

Table Of Results

Alcontriol Technicheem

ALCONTROL TECHNICHEM

TABLE OF RESULTS

Project Name: Dulap Aerospace
 Job Number: 07-42901
 Matrix: Water
 Client: RPS Health Safety Environment

Project Code: HL12989

Sample Reference	Sample Depth (m)	Method No	S1		S2		Analyses						
			LOD	Units	Date Sampled	03/11/07	03/12/07	29/11/07	29/11/07	03/12/07	282085	282086	Laboratory Reference No
* VOC SUITE *													
Vinyl Chloride	< 0.01	< 0.01											
Chloroethane	< 0.001	< 0.001											
Trichloroethane	< 0.001	< 0.001											
1,1-Dichloroethane	< 0.001	< 0.001											
MTE	< 0.001	< 0.001											
Dichloromethane	< 0.050	< 0.050											
1,1,2-Trichloroethane	< 0.025	< 0.025											
1,1,2,2-Tetrachloroethane	0.002	< 0.001											
Benzene	< 0.001	< 0.001											
1,2-Dichloroethane	< 0.001	< 0.001											
Chloroform	< 0.001	< 0.001											
1,1,1-Trichloroethane	< 0.001	< 0.001											
1,1,2-Dichloroethane	< 0.001	< 0.001											
TBME	< 0.001	< 0.001											
Dichloromethane	< 0.001	< 0.001											
1,1-Dichloroethane	< 0.001	< 0.001											
Cis-1,2-Dichloroethene	0.002	< 0.001											
Chloroform	< 0.001	< 0.001											
1,1,1,2-Tetrachloroethane	< 0.001	< 0.001											
Benzene	< 0.001	< 0.001											
1,2-Dichloroethane	< 0.001	< 0.001											
Cis-1,3-Dichloropropene	< 0.001	< 0.001											
1,1,2-Trichloropropane	< 0.001	< 0.001											
Trans-1,3-Dichloropropene	< 0.001	< 0.001											
Cis-1,3-Dichloropropene	< 0.001	< 0.001											
Trichloroethane	0.002	< 0.001											
Bromodichloromethane	< 0.001	< 0.001											
Toluene	< 0.001	< 0.001											
1,1,2-Tetrachloroethene	< 0.001	< 0.001											
Chlorobenzenes	< 0.001	< 0.001											
Ethyl Benzene	< 0.001	< 0.001											
Di bromochloromethane	< 0.001	< 0.001											
Di bromoform	< 0.001	< 0.001											
Di XYlylene	< 0.001	< 0.001											

LOD	Sample Reference	Sample Depth (m)	Date Sampled	Date Scheduled	Laboratory Reference No	Analyses	** VOC SUITE Cont. * *	
							S1	S2
	1.1,2,2 Tetrachloroethane	< 0.001	< 0.001		040W ₁	mg/l	0.001	
	1,3,5 Trimethylbenzene	< 0.001	< 0.001		040W ₁	mg/l	0.001	
	1,2,4 Trimethylbenzene	< 0.001	< 0.001		040W ₁	mg/l	0.001	
	1,3 Dichlorobenzene	< 0.001	< 0.001		040W ₁	mg/l	0.001	
	1,4 Dichlorobenzene	< 0.001	< 0.001		040W ₁	mg/l	0.001	
	1,2 Dichlorobenzene	< 0.001	< 0.001		040W ₁	mg/l	0.001	
	* VOC SUITE Cont. * *							
	** VOC SUITE Cont. * *							

Project Name: Durulap Aerospace
Job Number: 07-42901
Matrix : Water

Project Code: HL12989

ALCONTROL TECHNICHEM

Table Of Results

ALcontrol Technichem

Table Of Results - Appendix

Project Name: Dunlap Aerospace
Client : RPS Health Safety Environment

Job Number : 07-42901
Project Code: HL12989

Summary of methods contained within report:

Method No.	Reference	Description	WetDry Analysis
METS	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry", HMSO, 1996	Determination of metals in aqueous samples by nitric digestion followed by ICP-OES detection	
CWGW	In-house method based on "Total Petroleum Hydrocarbon Criteria Working Group" series, 1998-9	Determination of "CWG" banded petroleum hydrocarbons in aqueous samples using a combination of headspace GC-FID (C5-C12) and pentane extraction / silica-alumina aliphatic - aromatic split / GC-FID (C12-C35) techniques with banding by comparison to alkane standards	
086W	In-house method	Determination of anion content in aqueous samples using ion chromatographic determination with electrical conductivity detector	
084W	In-house method	Determination of pH in aqueous samples by direct electrometric measurement	
080W	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry", HMSO, 1996	Determination of metals in aqueous samples by nitric acid digestion followed by Inductively Coupled Plasma - Mass Spectrometry detection (ICP-MS)	
077W	In-house method	Determination of organophosphorus pesticides in aqueous samples by dichloromethane extraction followed by GC-MS detection	
076W	In-house method	Determination of organochlorine pesticides in aqueous samples by dichloromethane extraction followed by GC-MS detection	
061W	In-house method based on Method 4500-CN "Standard Methods for the Examination of Water and Waste Water", APHA AWWA WEF, Edition 18, 1992	Determination of cyanides and thiocyanate in aqueous samples by continuous flow colorimetry (Skalar)	
040W	In-house method based on EPA624 "Volatile Organic Compounds in Waste Waters"	Determination of volatile organic compounds in aqueous samples by headspace GC-MS	

ALcontrol Technichem

Table Of Results - Appendix

Project Name: Dunlap Aerospace
Client : RPS Health Safety Environment

Job Number : 07-42901
Project Code: HL12989

Summary of methods contained within report :

Method No.	Reference	Description	Wetdry Analysis
022W	In-house method	Determination of PAH compounds in aqueous samples by pentane extraction followed by GC-MS detection	
007W	In-house method based on Method 3500-Cr, "Standard Methods for the Examination of Water and Waste Water", APHA AWWA WEF, Edition 18, 1992	Determination of hexavalent chromium in aqueous samples by ICP-OES screen	

All laboratory analytical techniques undertaken are within UKAS Accreditation.

F2 Results of the Sampling and Analytical Quality Assurance and Quality Control Plan

F1 Sampling and Analytical Quality Assurance and Quality Control Plan

Contents

QUALITY ASSURANCE AND QUALITY CONTROL

APPENDIX F

The analytical suites specified in the Design SPM were used in the analysis of samples from the investigation to collect reference data.

REFERENCE DATA

APPENDIX G

APPENDIX H

Dunlop Aerospace Braking Systems, Holbrook Lane, Coventry

INSPECTION AND MONITORING PROTOCOLS

Contents

H3 Reporting Procedures

H2 Inspection, Testing and Maintenance Protocols

H1 Monitoring Protocols

It is not proposed to carry out on-going extremely analytical groundwater or surface water monitoring and neither is it proposed to carry out any ongoing ground or soil-gas and vapours monitoring unless requested by the Environment Agency following the collection of reference data.

monitoring unless requested by the Environment Agency following the collection of reference monitoring and neither is it proposed to carry out any ongoing ground or soil-gas and vapours

The groundwater will continue to be analysed on a fortnightly basis in-house. It will be analysed for: pH, Conductivity, Chemical Oxygen Demand, Suspended Solids, Total Metal Content, Appearance, Calcium, Potassium, Nickel, Sodium, Magnesium, Iron, Lead, Chromium, Tin, Zinc and Copper.

H1 – Environmental Monitoring Protocols

Item	Visual Inspection Frequency	Further Annual Inspection Required	Checklist
Above Ground Process Plant and Equipment			
Boiler Plant	Daily	Annual	Audit Schedule
Furnaces	Daily	Annual	Audit Schedule
Substations	Daily	Annual	Audit Schedule
Transformers	Daily	Annual	Audit Schedule
Conditioning	Weekly	Annual	Outside areas
Tanks and Bunds	Not documented	Annually	Outside areas walls, fencing and kerbing
Site Boundaries	Not documented	Annually	Outside areas miscellaneous
Steel Tanks	Weekly	Annually	Tank and Associated Pipe (including Mains Water & Nitrogen)
Diesel Storage tanks	Weekly	Annually	Tank And Associated Water Treatment (including Boiler and Chemicals Storage)
Plastic Tanks	Weekly	Annually	Bunds and Associated Chemical Stores, Chemicals & Cooling Tower (including Paint Shop and Associated pipe work)
Other Storage Vessels	Weekly	Annually	Bunds and Associated Drums
Plastic Containers	Weekly	Annually	Storage Areas
Sub Surface Structures	Biannually	Annually	Drainage and Subsurface Structures
Interceptor	Biannually	Annually	Drainage and Subsurface Structures
Foul Drain/Sewer	Not routinely	Annually	Drainage and Subsurface Structures
Storm Drain	Not routinely	Annually	Drainage and Subsurface Structures
Unbundled External Pipe Work Over Unmade Ground	Tested	Tested	Structures
Cooling Water Transfer	Weekly	Annually	Pipe work
Pipework	Weekly	Annually	Pipe work
Sumps and Storage Reservoirs	Biannual Integrity Tests	Biannual	Sumps and Storage Reservoirs
Sumps	Biannual Integrity Tests	Biannual	Sumps and Storage Reservoirs
Storage Lagoon house blowdown	Weekly	Annually	Storage Reservoirs
(Including pump sumps, boiler oil store sumps, house blowdown)	Biannual Integrity Tests	Biannual	Storage Reservoirs
(Fire station storage)	Biannual Integrity Tests	Biannual	Storage Reservoirs

H2 – Infrastructure Monitoring Protocols

Item	Visual Inspection Frequency	Further Annual Inspection Required	Checklist	Tests	Storage Reservoir	Sumps and Storage Reservoirs
				Weekly, Annually	Bimonthly Integrity Tests	

Position.....

Signed:

Date:

Actions undertaken:

Date of inspection	Signed
.....

Additional Problems/Observations:

Where a problem is found, provide details:

- Boundary Areas:
- Check hedge row condition Y/N
 - Check for problems with unmade ground at site boundaries Y/N
 - Check for damage to kerbs at site boundaries Y/N
 - Check for fencing/gates Y/N
 - Check for damage to fences Y/N

- Concrete hard standing:
- Check for any damage to raised kerbs Y/N
 - Check if any drainage covers need attention Y/N
 - Check for any areas of damage Y/N

OUTSIDE AREAS MISCELLANEOUS CHECKLIST

Dunlop Aerospace Braking Systems Site Infrastructure Monitoring Checklist

H3 - Data recording and reporting procedures

Position

Signed:

Date:

Actions undertaken:

Date of inspection Signed

Additional Problems/Observations:

Where a problem is found, provide details:.....

Associated Pipe work:
Y/N - Check for visible leak from pipe work
Y/N - Check for visible damage to pipe work

Tank:
Y/N - Check fill point secure
Y/N - Check outlet point is secured
Y/N - Check for visual evidence of leaks/spills outside tank
Y/N - Check for cracks or damage to floor and top of tank
Y/N - Check for cracks and damage to walls of tank

TANK AND ASSOCIATED PIPE WORK CHECKLIST

Monitoring Checklist

Dunlop Aerospace Braking Systems Site Infrastructure

Position.....

Signed: Date:

Actions undertaken:

--	--

Date of inspection Signed

--	--

Additional Problems/Observations:

Where a problem is found, provide details:.....

Associated Pipe work:
Y/N - Check for visible leak from pipe work
Y/N - Check for visible damage to pipe work

Bund:
Y/N - Check dispensing point secure
Y/N - Check fill point secure
Y/N - Check capacity of bund 110% of storage tank
Y/N - Check bund impermeable and resistant to stored material
Y/N - Check for rainwater inside bund
Y/N - Check for visual evidence of leaks/spills outside bund
Y/N - Check for cracks or damage to outside walls of bund
Y/N - Check for cracks or damage to inside walls of bund

BUND AND ASSOCIATED PIPEWORK CHECKLIST

Dunlop Aerospace Braking Systems Site Infrastructure Monitoring Checklist

Position

Signed:

Date:

Actions undertaken:

Date of inspection	Signed

Additional Problems/Observations:

Where a problem is found, provide details:

Storage area:	- Check appropriate materials stored
	- Check there is no damage to containers visible
	- Check containers lidded/sealed
	- Check there are no leaks/spills visible
	- Check there is no damage to impervious coating visible
	- Check the floor and wall render/sealant are in place
	- Check there are no leaks/spills visible
	- Check there is no damage to hard standing visible
	- Check the floor and wall render/sealant are in place
	- Check there are no leaks/spills visible
	- Check spill kits are present and complete
	- Check there are no leaks/spills visible
	- Check there are no empty oil drums

STORAGE AREAS CHECKLIST

Dunlop Aerospace Braking Systems Site Infrastructure
Monitoring Checklist

Position

Signed: Date:

Actions undertaken:

--	--

Date of inspection

Signed

Additional Problems/Observations:

--	--

Where a problem is found, provide details:

.....

Intercceptor	<ul style="list-style-type: none">- Check for any signs of damage- Check condition of contents	Y/N
Open drains and gullies	<ul style="list-style-type: none">- Check if drains are blocked with debris- Check for damage to drain covers- Check pipes for leaks and damage	Y/N
(For use only where visual inspection is feasible)	Y/N

DRAINAGE AND SUBSURFACE STRUCTURES CHECKLIST

Dunlop Aerospace Braking Systems Site Infrastructure Monitoring Checklist

Position.....

Signed:

Date:

Actions undertaken:

Date of inspection Signed

Additional Problems/Observations:

Where a problem is found, provide details:.....

- | | | | | |
|------------|---|---|---|---|
| Pipe work: | - Check for visible damage to pipe
Y/N | - Check for visible leak from pipe
Y/N | - Check for signs of rust or corrosion
Y/N | - Check integrity of pipe joints
Y/N |
|------------|---|---|---|---|

MISCELLANEOUS PIPEWORK CHECKLIST

Dunlop Aerospace Braking Systems Site Infrastructure Monitoring Checklist

Position.....

Signed: Date:

Actions undertaken:

Date of inspection	Signed
Additional Problems/Observations:	

Where a problem is found, provide details:.....

Storage Reservoirs:	
- Check for any visible damage to walls where visible	Y/N
- Check for any visible leaks	Y/N

Sumps:

SUMPS AND STORAGE RESERVOIR CHECKLIST

Dunlop Aerospace Braking Systems Site Infrastructure Monitoring Checklist

APPENDIX I

OTHER ISSUES

Contents

11 ASR Conceptual Site Model

12 ASR Table D2

PAC No.	PAC Description	Reason(s) for Concern	Potential Contaminants	On Site Concern (Present Use)
1	Raw material storage area	The bunded area surrounding the nitrogen tank can not hold 110% capacity of the nitrogen tank	Nitrogen	
2	Water treatment plant	Filling points for the diesel storage tank are not located within a bunded area	Hydrocarbons	
3	Cooling water processes	No formal integrity testing has been carried out for the lagoons. The hardstanding below the plant is unlikely to hold large spills and the pipework transporting cooling water is located above unmade ground in some areas	Acids/Aalkalis, inorganic compounds	
4	Historical uses	The site and surrounding area have been utilised for industrial activities since the 1930s	Metals, hydrocarbons, inorganic compounds, solvents, pesticides	Off Site Concerns
1	Industrial uses in the surrounding area	The site is located in a largely industrial area	Metals, inorganic compounds, solvents, pesticides	Industrial uses in the surrounding area

I - ASR Conceptual Site Model - Tabular

12 - ASR TABLE D2

Site Operation or Site Zone	Substance	Relevant Activity	Potential for pollution from the relevant activity	Records of pollution prevention measures	Existence of primary containment	Testing and inspection of primary containment	Nature of secondary containment	Testing and inspection of secondary containment	Nature of tertiary containment	Adequacy of pollution prevention measures	Are proposed integrity testing measures adequate	Adequate documented management system to demonstrate operator management competence?	Little likelihood of pollution	Reasonable possibility of pollution
Raw material storage area	OPAN, carbon black, liquid nitrogen, oils, diesel, boiler treatment and water treatment chemicals, biocides, antioxidants, paint and laboratory chemicals	Delivery and unloading of raw materials	Spillage from road tanker or lorry in yard potentially migrating to underlying ground, groundwater and surface water.	No evidence or records of contamination of surrounding area	Spill kits on vehicles and on site.	Road tanker or lorry	Tankers and lorries are covered and compliant to British Standard and DOTADR Regulations.	Operational areas of the site are covered in hardstanding.	Weekly visual inspection of hardstanding integrity. Reporting and corrective action in accordance with site policy and procedures.	None	Yes	Yes	Yes	X
Liquid nitrogen	Storage of nitrogen	Spillage from transfer of nitrogen to potential containers of undiluted ground and groundwater.	No evidence or records of contamination of surrounding area.	Spill kits on site. Operating procedures and work instructions in place.	Steel or plastic drums or containers.	Visual inspections and incident reporting in accordance with site policy and procedures.	Containers stored within a bunded area.	Weekly visual inspection of bund integrity. Reporting and corrective action in accordance with site policy and procedures.	Bunded area on concrete hardstanding.	Yes	Yes	Yes	X	
OPEN	Storage in old boiler house	Punctured containers or insect connections to delivery lines may result in migration of contaminants to ground, groundwater and surface water.	No evidence or records of contamination of surrounding area.	Spill kits on vehicles and on site.	Potential hazardous and liquid materials are located within containers.	Unloading in concrete or bitumen hardstanding.	Weekly visual inspection of hardstanding integrity. Reporting and corrective action in accordance with site policy and procedures.	Tank located on concrete hardstanding.	Yes. Although the banded area is too small to contain 110% capacity of the tank, liquid nitrogen would immediately evaporate to a gaseous form following contact with air.	Yes	Yes	Yes	X	

Site Operation or Site Zone	Substances	Relevant Activity	Potential for pollution from the relevant activity	Records of pollution prevention measures	Existence of pollution prevention measures	Nature of primary containment	Testing and inspection of primary containment	Nature of secondary containment	Testing and inspection of secondary containment	Nature of tertiary containment	Adequacy of pollution prevention measures	Are proposed integrity testing measures adequate	Adequate documented management system to demonstrate operator competence	Little likelihood of pollution	Reasonable possibility of pollution
	Hydrocarbon, acids, oils, laboratory chemicals and other process chemicals	Chemical storage inside CVD building	Plastered containers may result in ignition of contaminants to ground, groundwater and surface water.	No evidence or records of contamination of surrounding area.	Spill kits on site. Operating procedures and work instructions in place.	Plastic, glass and steel containers	Visual inspections and incident reporting in accordance with site policy and procedures.	Liquid chemicals stored within dedicated chemical store.	Visual inspections and incident reporting in accordance with site policy and procedures.	Critical store located internally.	Yes	Yes	Yes	X	
Storage of CVD finished product stores	CVD machine shop	Failure of containment resulting in potential migration of contaminants to ground, groundwater and surface water.	No evidence or records of contamination of surrounding area.	Operating procedures and work instructions in place.	Storage in dedicated store.	Visual inspections and incident reporting in accordance with site policy and procedures.	Dedicated store on concrete hardstanding.	Weekly visual inspection of handslanding.	Store located internally.	Yes	Yes	Yes	X		
Boiler house	Water contaminated with boiler treatment chemicals	Steam generation	Failure of containment of buffers or plenum and spillage of contaminated water to ground, groundwater or surface water.	No evidence or records of contamination of surrounding area.	Steel boilers / pipework.	Visual inspections and incident reporting in accordance with site policy and procedures.	Concrete and metal floors under boilers/ pipework.	Weekly visual inspection of handslanding.	Replaced/pipework located within a building.	Yes	Yes	Yes	X		
Boiler treatment	Chemical transfer of boiler treatment chemicals	Storage and transfer of boiler treatment chemicals	Failure of containment leading to potential contamination of underlying ground and groundwater.	No evidence or records of contamination of surrounding area.	Spill kits on site. Operating procedures and work instructions in place.	Visual inspections and incident reporting in accordance with site policy and procedures.	Tank located within a bounded area.	Weekly visual inspection of bund integrity.	Tank located internally.	Yes	Yes	Yes	X		
Boiler blow down	Storage of water from blow down	Storage of contaminated water to ground.	Failure of containment of sun and spills of contaminated areas.	No evidence or records of contamination of surrounding areas.	Concrete store.	Visual inspections and incident reporting in accordance with site policy and procedures.	Concrete N/A.	None	Yes	Yes	Yes	Yes	X		

Site Operation or Site Zone	Substances	Relevant Activity	Potential for pollution from the relevant activity	Records of pollution	Existence of pollution prevention measures	Nature of primary containment	Testing and inspection of primary containment	Nature of secondary containment	Testing and inspection of secondary containment	Nature of tertiary containment	Adequacy of pollution prevention measures	Are proposed integrity testing measures adequate	Adequate documented management system to demonstrate operator management/ competence	Little likelihood of pollution	Reasonable possibility of pollution
Water treatment plant houses	Cooling water containing biocides and water treatment chemicals	Process cooling	Failure of containment of tank leading to potential contamination of underlying ground and groundwater.	No evidence or records of contamination of surrounding areas.	Operating procedures and work instructions in place.	Steel tank minimised by contractor under service arrangement.	Steel tank located on concrete hardstanding.	Weekly visual inspection of integrity. Reporting and corrective action in accordance with site policy and procedures.	Tank located internally.	Yes	Yes	Yes	X	X	?
Water treatment plant houses	Water treatment containing bromide and hypochlorite	Storage of water treatment chemicals	Failure of containment of drums leading to potential contamination of underlying ground and groundwater.	No evidence or records of contamination of surrounding areas.	Spill kits on site. Operating procedures and work instructions in place.	Plastic drums visual inspections and incident reporting in accordance with site policy and procedures.	Drums are located within plastic secondary containment.	Visual inspections and incident reporting in accordance with site policy and procedures.	Drums located internally on concrete hardstanding.	Yes	Yes	Yes	X	X	
Diesel	Storage of diesel	Storage from diesel tank resulting in contamination of underlying ground and groundwater.	No evidence or records of contamination of surrounding area.	Spill kits on site. Procedures for filling and dispensing diesel from tank.	Diesel stored in a double skinned tank.	Diesel tank is visually inspected and incident reporting in accordance with site policy and procedures.	Diesel tank is located on a platform above concrete hardstanding.	Weekly visual inspection of integrity. Reporting and corrective action in accordance with site policy and procedures.	Tank is located within a building.	No. Although the tank is located within a building, it is recommended that filling operations and associated pipework are located within a concrete bund to prevent spills during filling and dispensing.	Yes	Yes	Yes	X	
Air emission abatement	Broke inc machining dust	Storage of filter bag plant in central yard	Potential for containment loss leading to potential contamination of underlying ground and groundwater.	No evidence or records of contamination of surrounding areas.	Operating procedures and work instructions in place.	Filter bags	Filter bags located within steel containers.	Visual inspections and incident reporting in accordance with site policy and procedures.	Containers located on hardstanding.	Yes	Yes	Yes	X	X	

Site Operation or Site Zone	Substances	Relevant Activity	Potential for pollution from the relevant activity	Records of pollution prevention measures	Nature of primary containment	Testing and inspection of secondary containment	Nature of tertiary containment	Adequacy of pollution prevention measures	Are proposed integrity testing measures adequate	Are documented management systems to demonstrate operator competence	Little likelihood of pollution	Reasonable possibility of pollution
Cooling water systems	Water containing biocides and other water treatment chemicals	Storage of cooling water for cooling towers in pump house	Potential failure of containment leading to leakage to underlying ground and groundwater.	No evidence or records of contamination of surrounding area.	Spill kits or concrete cooling towers in pump house.	Cooling plant visual inspections and incident reporting in accordance with site policy and procedures.	Brick built area located below plant.	Weekly visual inspection of hardstanding in places.	Yes	Yes	X	X
Water-containing biocides and other water treatment chemicals	Transfer of cooling water to storage reservoir via pipework	Temporary storage of water in tank associated with Howel's Isobar (fractures 10 and 11)	Failure of containment leading to potential contamination of underlying ground and groundwater.	No evidence or records of contamination of surrounding area.	Steel tank.	Reporting and corrective action in accordance with site policy and procedures.	Concrete or bitumen hardstanding.	External site drains discharge to perch or which flows to public surface water sewer. Isolation valve installed to contain large spillages on site when necessary.	Yes	No. Formal integrity testing of bunding shall be included in the Proposed Improvement Plan	Yes	X
Water-containing biocides and other water treatment chemicals	Storage of water in Howel's Isobar tank (fractures 10,11 and 12)	Water containing biocides and other water treatment chemicals	Failure of containment leading to potential contamination of underlying ground and groundwater.	No evidence or records of contamination of surrounding area.	Concrete block lagoon	Reporting and corrective action in accordance with site policy and procedures.	Lagoon surrounded by concrete block lading.	Weekly visual inspection of hardstanding integrity. Reporting and corrective action in accordance with site policy and procedures. Drains are cleared out when necessary.	No	No. Formal integrity testing of bunding shall be included in the Proposed Improvement Plan	Yes	X
Water-containing biocides and other water treatment chemicals	Storage of water in reservoir (excluding C/D building)	Water containing biocides and other water treatment chemicals	Failure of containment leading to potential contamination of underlying ground and groundwater.	No evidence or records of contamination of surrounding area.	Reservoir	Spill kits or concrete reservoir	Reporting and corrective action in accordance with site policy and procedures.	Weekly visual inspection of hardstanding integrity. Reporting and corrective action in accordance with site policy and procedures. Drains are cleared out when necessary.	None	No. Formal integrity testing of bunding shall be included in the Proposed Improvement Plan	Yes	X

Site Operation or Site Zone	Substances	Relevant Activity	Potential for pollution from the relevant activity	Records of pollution prevention measures	Existence of primary containment	Testing and inspection of primary containment	Nature of secondary containment	Testing and inspection of secondary containment	Nature of tertiary containment	Adequacy of pollution prevention measures	Are proposed integrity testing measures adequate?	Adequate management system to demonstrate operator competence?	Little likelihood of pollution	Reasonable possibility of pollution
Trans-formers and electricity substations	Oils (do not contain PCB's).	Use of oil as part of operation.	Failure of containment leading to potential migration of contaminants to underlying ground and groundwater.	No evidence of records of contamination of surrounding area.	Substations and transformers.	Monitored by Substation or transformer contractors.	Located on concrete hardstanding.	Weekly visual inspection of handstanding.	None	Yes	Yes	Yes	X	

