

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 115		PAGE 1 OF 1	
	NUMBER	TYPE					DRILLING DATES: 13/9/01		DRILLING METHODS : Window Sample	
							DRILLER : GRL		BOREHOLE DIAMETER : 50mm	
							LOGGED BY : ML		SCREEN TYPE & DIAM: uPVC 35mm	
		CHECKED BY : JM		SCREEN SLOT SIZE: 2mm						
					0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5		DESCRIPTION		COMMENTS	0.0
							MADE GROUND: Grass covering.		Dry,NVO	
							MADE GROUND: Topsoil with some fine and medium gravel, occasional coarse gravel and coarse sand and rare cobbles (up to 6cm), clay and fine sand.			
							MADE GROUND: Concrete layer.		Dry,NVO	0.5
							MADE GROUND: Dense black gravelly ash with abundant fine gravel and coarse sand, some medium gravel of fused ash and fine black gravel of coal and rare silt and clay.			
							Very stiff/hard dark brown CLAY with occasional fine black gravel of coal and rare light grey and black mottling, light orange mottling and rounded medium gravel.		Dry,NVO	1.0
							becoming soft.			2.5
							Soft light brown/light orange CLAY with much fine black gravel of coal and some coarse sand.		Slightly damp, NVO	
Soft light brown CLAY with much fine/medium sand and fine black gravel of coal.		Wet,black staining & strong olfactory odour.	3.0							
Soft light brown CLAY with much fine/medium sand and some fine and medium gravel of sandstone.		Wet,black staining & strong olfactory odour.	4.0							
Borehole completed at 4.3mbgl due to hard sandstone.			4.5							

**LOCATION / NOTES:**

NVO = No visual or olfactory evidence of contamination

**LEGEND**

- Disturbed Sample
- Undisturbed Sample
- Headspace Analysis
- Down Borehole Analysis
- Groundwater Table
- Perched Water Table

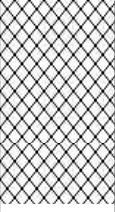



**BOREHOLE LOG**

Job Title: Phase II Soil & Groundwater Investigation








Location: Whitehaven,Cumbria

Client: Rhodia

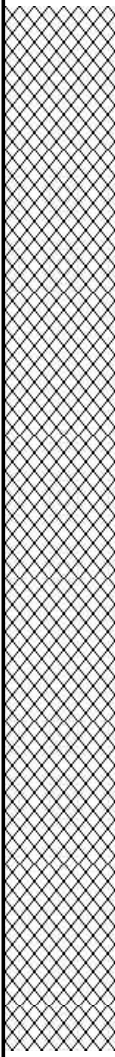









App'd: JM	Date: OCT 2001
Drawn : AF	Ref: AF/ML/420
Scale: as shown	Job No: 44557-021-420
Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 119		PAGE 1 OF 1	
	NUMBER	TYPE				DRILLING DATES: 17/9/01		DRILLING METHODS : Window Sample	
						DRILLER : GRL		BOREHOLE DIAMETER : 50mm	
						LOGGED BY : ML		SCREEN TYPE & DIAM: -	
		CHECKED BY : JM		SCREEN SLOT SIZE: -					
	0.6-0.65m-SVOC,TOC	 *0.2   *1.6			DESCRIPTION		COMMENTS	0.0	
					MADE GROUND: Concrete hardstanding.		Dry,NVO. Strong sulphurous odour.	0.5	
					MADE GROUND: Loose light grey and light brown fine/medium sand with much fine gravel of mudstone and limestone, some medium and coarse gravel and rare clay. 0.5m-becoming with fused blue/grey air blown slag.			1.0	
					Borehole completed at 0.65mbgl due to refusal on concrete.			1.5	
								2.0	
								2.5	
								3.0	
								3.5	
								4.0	

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b>	
		Job Title: Phase II Soil & Groundwater Investigation	
		Location: Whitehaven,Cumbria	
		Client: Rhodia	
	App'd: JM	Date: OCT 2001	
	Drawn : AF	Ref: AF/ML/420	
	Scale: as shown	Job No: 44557-021-420	
	Drg. Size: A4	BOREHOLE LOG	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 119a		PAGE 1 OF 1		
	NUMBER	TYPE					DRILLING DATES: 27/9/01		DRILLING METHODS : Window Sample		
							DRILLER : GRL		BOREHOLE DIAMETER : 50mm		
							LOGGED BY : ML		SCREEN TYPE & DIAM: uPVC 35mm		
							CHECKED BY : JM		SCREEN SLOT SIZE: 2mm		
							DESCRIPTION		COMMENTS		
				0.0		MADE GROUND: Reinforced concrete.		Dry,NVO	0.0		
			0.5	MADE GROUND: Loose light grey/white fine sand and grey fine/medium angular gravel of limestone with some grey coarse sand.			Dry,NVO	0.5			
			1.0	MADE GROUND: Medium dense dark brown reworked clay with some grey fine and medium angular gravel of limestone, black fine gravelly ash and coarse sand and occasional shiny black fine gravel of coal and orange fine ash.			Dry,NVO	1.0			
			1.5	MADE GROUND: Medium dense light brown and dark grey coarse sand and fine gravel of limestone and mudstone with occasional light brown clay and rare black fine gravel of coal.			Wet,NVO	1.5			
				2.0		Borehole completed at 1.95mbgl due to obstruction in limestone.			2.0		
				2.5					2.5		
				3.0					3.0		
				3.5					3.5		
				4.0					4.0		
<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination						<b>LEGEND</b> Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Phase II Soil & Groundwater Investigation Location: Whitehaven,Cumbria Client: Rhodia <div> <div> App'd: JM  Date: OCT 2001  Drawn : AF  Ref: AF/ML/420  Scale: as shown  Job No: 44557-021-420  Drg. Size: A4  BOREHOLE LOG </div> </div>			

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 120		PAGE 1 OF 1	
	NUMBER	TYPE					DRILLING DATES: 13/9/01		DRILLING METHODS : Window Sample	
							DRILLER : GRL		BOREHOLE DIAMETER : 50mm	
							LOGGED BY : ML		SCREEN TYPE & DIAM: uPVC 35mm	
							CHECKED BY : JM		SCREEN SLOT SIZE: 2mm	
 0.3-0.6m-Asbestos, Metals				0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5		DESCRIPTION		COMMENTS	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5	
						MADE GROUND: Grass covering.		Dry,NVO		
						MADE GROUND: Soft light brown topsoil with some silt, occasional fine/medium gravel and rare light brown/pink medium gravel of sandstone.		Dry,NVO		
						MADE GROUND: Soft dark brown/black silty reworked clay with some coarse sand, occasional fine gravel and fine black gravel of coal and rare coarse gravel of limestone and sandstone.		Dry,NVO		
						MADE GROUND: Hard black gravelly ash with some fine black gravel of coal and medium.fine sand and occasional silt and clay.		Dry,NVO		
						Hard light brown CLAY with some medium/coarse sand and fine gravel and occasional silt and coarse gravel (2cm) of mudstone and sandstone.		Dry,NVO		
						1.0-1.2m-becoming dark brown with some coarse gravel (>3cm).		Dry,NVO		
						Hard cemented fissile dark grey MUDSTONE.		Dry,NVO		
						Very stiff dark brown CLAY with occasional fine sand and fine gravel and rare silt and orange mottling.		Dry,NVO		
						Very stiff dark brown CLAY with some orange mottling and occasional fine gravel, black fine gravel of coal, silt and fine sand.		Dry,NVO		
						Very stiff/hard dark brown/orange CLAY with occasional pink mottling, fine gravel, black fine gravel of coal and pink/light brown coarse (3cm) gravel of sandstone and rare silt and fine sand.		Dry,NVO		
						Soft dark brown CLAY with some silt and occasional pink/light brown fine gravel of sandstone and black coal.		Damp,NVO		
						3.8-3.9m-becoming with some light brown fine/medium sand.				
						Hard cemented light brown/pink medium grained SANDSTONE.				
						Borehole completed at 4.0mbgl due to hard sandstone.				
<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination			<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table			<b>BOREHOLE LOG</b> Job Title: Phase II Soil & Groundwater Investigation Location: Whitehaven,Cumbria Client: Rhodia <div>  <div> App'd: JM  Date: OCT 2001  Drawn : AF  Ref: AF/ML/420  Scale: as shown  Job No: 44557-021-420  Drg. Size: A4  BOREHOLE LOG </div> </div>				



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 124		PAGE 1 OF 1	
	NUMBER	TYPE					DRILLING DATES: 18/9/01		DRILLING METHODS : Window Sample	
							DRILLER : GRL		BOREHOLE DIAMETER : 50mm	
							LOGGED BY : ML		SCREEN TYPE & DIAM: -	
		CHECKED BY : JM		SCREEN SLOT SIZE: -						
	0.1-0.2m-Asbestos	*0.1		DESCRIPTION		COMMENTS				
	0.2-0.4m-TPH, Metals	*0.1		MADE GROUND: Reinforced concrete hardstanding.		Slightly damp, slight black staining.	0.0			
				MADE GROUND: Medium dense/dense light brown/grey angular medium gravel of limestone with some fine gravel and coarse sand and rare coarse gravel of limestone and clay.		Slightly damp, NVO				
				MADE GROUND: Very dense light brown/orange medium gravel of sandstone with numerous coarse orange sand and cemented cobbles of sandstone (<6cm).		Damp, NVO	0.5			
				MADE GROUND: Dense black granular fill with much black gravelly ash and some coarse sand and fine gravel.		Dry, NVO				
				Very stiff/hard light brown CLAY with some light orange and grey silt mottling, occasional black fine gravel and rare medium gravel of sandstone.		Dry, NVO	1.0			
				Very stiffhard dark brown CLAY with some light orange and grey silt mottling, occasional black fine gravel and rare medium gravel of sandstone.			1.5			
				Borehole completed at 1.6mbgl due to stiff clay.			2.0			
							2.5			
							3.0			
<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination			<b>LEGEND</b> Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table			<b>BOREHOLE LOG</b> Job Title: Phase II Soil & Groundwater Investigation Location: Whitehaven, Cumbria Client: Rhodia <div> </div> <div>             App'd: JM      Date: OCT 2001              Drawn : AF      Ref: AF/ML/420              Scale: as shown      Job No: 44557-021-420              Drg. Size: A4      BOREHOLE LOG           </div>				

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 133		PAGE 1 OF 1	
	NUMBER	TYPE				DRILLING DATES: 14/9/01		DRILLING METHODS : Window Sample	
						DRILLER : GRL		BOREHOLE DIAMETER : 50mm	
						LOGGED BY : ML		SCREEN TYPE & DIAM: uPVC 35mm	
		CHECKED BY : JM		SCREEN SLOT SIZE: 2mm					
	0.2-0.5m-Asbestos, TPH	*0.9          *0.7          *0.9	0.0		MADE GROUND: Loose light grey medium gravel of limestone hardcore.	Dry,NVO	0.0		
			0.5		MADE GROUND: Loose black gravelly ash with some medium/coarse black sand, blackfine gravel of coal and black ash, occasional black clay and rare fine sand and medium gravel of mudstone.	Dry,NVO	0.5		
			1.0		MADE GROUND: Soft dark brown/grey reworked clay with some fine black gravel of coal and mudstone and rare brown/orange mottling, silt and medium.coarse sand.	Dry,NVO	1.0		
			1.5		MADEGROUND: Loose light brown and black gravelly ash with much black fine gravel of coal and ash and some medium/coarse light brown and black sand.  1.5-1.6m-dense friable light orange brick.		1.5		
			2.0		MADE GROUND: Loose light grey coarse sand with occasional black fine gravel of coal and fine light brown/grey gravel and rare fine/medium sand.	Dry,NVO	2.0		
			2.5		MADEGROUND: Very soft dark brown silty reworked clay with occasional coarse sand and fine gravel.  MADE GROUND: Medium dense light brown and black granular fill with much light brown and orange coarse sand, some black fine gravel of coal and medium/coarse gravel of mudstone and coal and occasional light orange fine gravel of brick and light brown and black reworked clay.	Slightly damp, black staining & slight hydrocarbon odour.	2.5		
			3.0		becoming with numerous fine black gravel of coal, some black medium coarse gravel of coal, light orange medium/coarse brick fragments and rare fine sand and light brown clay.  Borehole completed at 3.0mbgl due to obstruction. Collapsed to 2.6mbgl.	Damp/wet, NVO	3.0		
			3.5				3.5		
			4.0				4.0		

**LOCATION / NOTES:**  
NVO = No visual or olfactory evidence of contamination

**LEGEND**

- Disturbed Sample
- Undisturbed Sample
- Headspace Analysis
- Down Borehole Analysis
- Groundwater Table
- Perched Water Table

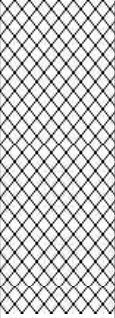








**BOREHOLE LOG**



Job Title: Phase II Soil & Groundwater Investigation








Location: Whitehaven,Cumbria

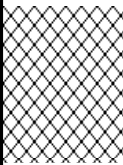


Client: Rhodia

App'd: JM	Date: OCT 2001
Drawn : AF	Ref: AF/ML/420
Scale: as shown	Job No: 44557-021-420
Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 134		PAGE 1 OF 1		
	NUMBER	TYPE					DRILLING DATES: 14/9/01		DRILLING METHODS : Window Sample		
							DRILLER : GRL		BOREHOLE DIAMETER : 50mm		
							LOGGED BY : ML		SCREEN TYPE & DIAM: -		
							CHECKED BY : JM		SCREEN SLOT SIZE: -		
 0.4-0.6m- Asbestos, PSB's, Metals				0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0		DESCRIPTION		COMMENTS	0.0		
						MADE GROUND: Loose limestone hardcore with some green cobbles of sandstone, brick and concrete.		Dry,NVO  Dry,NVO  Slightly damp, NVO	0.5  1.0  1.5  2.0  2.5  3.0  3.5  4.0		
						MADE GROUND: Loose dark grey/black slightly sandy silty ashy fill with rare rounded and subangular gravel (<2cm).					
						MADE GROUND: Loose black ashy silty fill with some very fine sand inclusions and rare sandstone, yellow/white gravel and concrete pieces (>2cm).					
						MADE GROUND: Medium dense black ashy fill with some silt and fine sand and rare orange/yellow cobbles of sandstone, concrete and brick fragments.					
Borehole completed at 1.0mbgl due to refusal.											
<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination						<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Phase II Soil & Groundwater Investigation Location: Whitehaven,Cumbria Client: Rhodia <div>  <div> App'd: JM  Date: OCT 2001  Drawn : AF  Ref: AF/ML/420  Scale: as shown  Job No: 44557-021-420  Drg. Size: A4  BOREHOLE LOG </div> </div>			

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 134a		PAGE 1 OF 1	
	NUMBER	TYPE					DRILLING DATES: 26/9/01		DRILLING METHODS : Window Sample	
							DRILLER : GRL		BOREHOLE DIAMETER : 50mm	
							LOGGED BY : ML		SCREEN TYPE & DIAM: -	
							CHECKED BY : JM		SCREEN SLOT SIZE: -	
0.5-1.0m-PCB's,PSD				DESCRIPTION		COMMENTS				
				MADE GROUND: Loose/medium dense grey and light pink angular gravel of limestone with much fine gravel of limestone, some light brown coarse sand and rare light brown clay.		Dry,NVO		0.0		
				MADE GROUND: Medium dense/dense black and dark grey fine gravel of ash and coal with frequent dark grey mudstone flints, occasional light grey ash, dark grey fine gravel of mudstone and orange iron mottling and rare light orange fine gravel of sandstone.		Dry,NVO		0.5		
				MADE GROUND: Loose light grey powdered ash with much black fine gravelly ash and dark grey fine gravel of mudstone and rare grey medium gravel of limestone.		Dry,NVO		1.5		
				Borehole completed at 2.0mbgl due to obstruction.				2.0		
								2.5		
								3.0		
								3.5		
								4.0		

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		 Disturbed Sample		Job Title: Phase II Soil & Groundwater Investigation	
		 Undisturbed Sample		Location: Whitehaven,Cumbria	
		 Headspace Analysis		Client: Rhodia	
		 Down Borehole Analysis			
		 Groundwater Table			
		 Perched Water Table			
				App'd: JM	Date: OCT 2001
				Drawn : AF	Ref: AF/ML/420
				Scale: as shown	Job No: 44557-021-420
				Drg. Size: A4	BOREHOLE LOG







BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS406		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 24/3/05		DRILLING METHODS : Window sampler	
							DRILLER : GPS		BOREHOLE DIAMETER : 100mm	
							LOGGED BY : PR		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY : LCH		SCREEN SLOT SIZE: 2mm	
							DESCRIPTION	COMMENTS		
	0.3-0.5m				0.0		MADE GROUND: Reinforced concrete.		Dry, NVO	0.0
							MADE GROUND: Dark brown silt with occasional subrounded gravel. Organic rich.			0.5
							Shale and coal with occasional brick and sandstone.			1.0
							Refusal at 0.6m on concrete.			1.5
					2.0					2.0
					2.5					2.5
					3.0					3.0
					3.5					3.5
					4.0					4.0
					4.5					4.5
					5.0					5.0

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

No groundwater encountered

LEGEND


 Disturbed Sample  
 Undisturbed Sample  
 Headspace Analysis  
 Down Borehole Analysis  
 Groundwater Table  
 Perched Water Table

BOREHOLE LOG

Job Title: Phase II Investigations and Environmental assessments.

Location: The Former Albright and Wilson Works, Whitehaven, Cumbria

Client: Rhodia



App'd: NA

Drawn : NA

Scale: NA




Drg. Size: NA








Date: 07/04/05

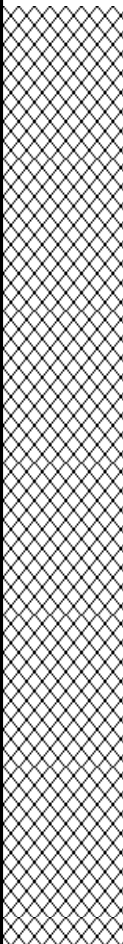

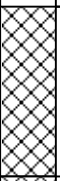
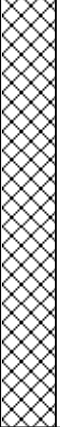


Ref: NA








Job No: 44319623

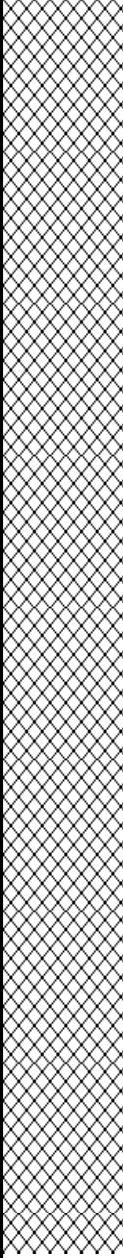

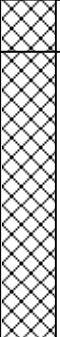
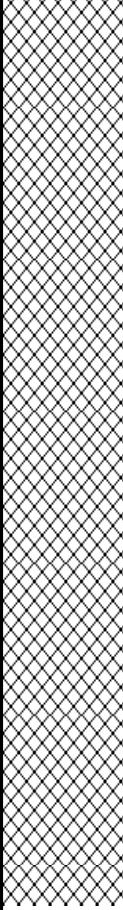

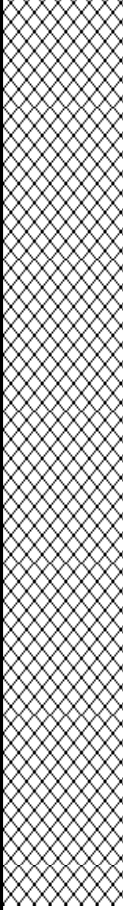

BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS420		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 31/3/05		DRILLING METHODS : Window sampler	
							DRILLER : GPS		BOREHOLE DIAMETER : 100mm	
							LOGGED BY : PR		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY : LCH		SCREEN SLOT SIZE: 2mm	
	1.5m				0.0		DESCRIPTION		COMMENTS	0.0
							MADE GROUND: Light grey, medium-coarse angular gravel with a pale orange silty clay matrix.		Dry, NVO	
							MADE GROUND: Dark grey sand with medium subangular-subrounded gravel.			
					0.5		MADE GROUND:Light grey pink medium-coarse angular gravel of limestone with a sity sand matrix.		Dry, NVO	0.5
							Becoming darker grey and more oganic rich.			
					1.0		MADE GROUND: Stiff, red brown silty clay with occasional fine gravel of ash and grey/orange sandstone. Gravel is rounded to subrounded.		Dry, NVO	1.0
							Sandstone gravel more frequent.			
					1.5		MADE GROUND: Soft, dark brown silty clay with occasional fine gravel of ash and orange mottling.			
							MADE GROUND: Very soft black organic rich clay.			1.5
										2.0
										2.5
				3.0						
				3.5						
				4.0						
				4.5						
				5.0						








<u>LOCATION / NOTES:</u> NVO = No visual or olfactory evidence of contamination  No groundwater encountered		<u>LEGEND</u>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<u>BOREHOLE LOG</u> Job Title: Phase II Investigations and Environmental assessments. Location: The Former Albright and Wilson Works, Whitehaven, Cumbria Client: Rhodia  <table><tr><td>App'd: NA</td><td>Date: 07/04/05</td></tr><tr><td>Drawn : NA</td><td>Ref: NA</td></tr><tr><td>Scale: NA</td><td>Job No: 44319623</td></tr><tr><td>Drg. Size: NA</td><td>BOREHOLE LOG</td></tr></table>	App'd: NA	Date: 07/04/05	Drawn : NA	Ref: NA	Scale: NA	Job No: 44319623	Drg. Size: NA	BOREHOLE LOG
App'd: NA	Date: 07/04/05										
Drawn : NA	Ref: NA										
Scale: NA	Job No: 44319623										
Drg. Size: NA	BOREHOLE LOG										

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP505		PAGE 1 of 1						
	NUMBER	TYPE					DRILLING DATES: 24/3/05		DRILLING METHODS : Back hoe excavator						
							DRILLER : Hewden Hire		BOREHOLE DIAMETER : NA						
							LOGGED BY : PM		SCREEN TYPE & DIAM: NA						
							CHECKED BY : LCH		SCREEN SLOT SIZE: NA						
							DESCRIPTION	COMMENTS							
	0.3m	 * 0			0.0		MADE GROUND: Grass surface cover. Brown silty sand with angular gravel of limestone, rubble and occasional red brick cobbles.		0.0						
		* 0			0.5		MADE GROUND: Brown, firm, sandy clay (reworked) with occasional pink mottling and black flecks of shale, common angular-rounded gravel , sometimes loose. Occasional boulders and cobbles of sandstone.	Dry, NVO	0.5						
					1.0				1.0						
					1.5			Dry, NVO	1.5						
					2.0			Dry, NVO	2.0						
		* 0			2.5		Brown, loose, very sandy CLAY with gravel. Sand is fine-medium and gravel is mostly fine-medium with some coarse gravel. Gravel is subrounded-rounded.		2.5						
					3.0				3.0						
		* 0			3.5		Stiff, brown, Very sandy, slightly gravelly CLAY (BOULDER CLAY). Gravel is mostly fine-medium and angular to rounded. Occasional boulders of sandstone and granite. Bedrock or large boulders at 3.6m		3.5						
					4.0		End of Borehole		4.0						
					4.5				4.5						
					5.0				5.0						

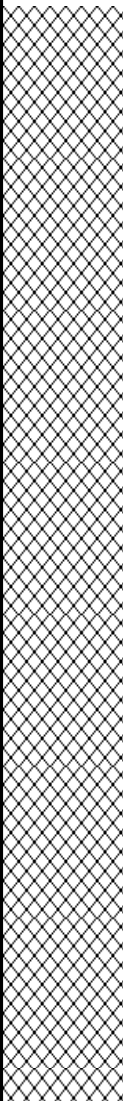
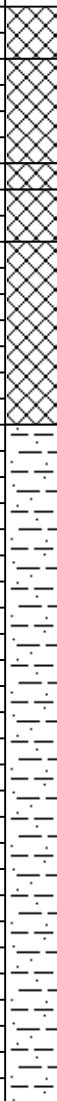
<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  No groundwater encountered	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Phase II Investigations and Environmental assessments. Location: The Former Albright and Wilson Works, Whitehaven, Cumbria Client: Rhodia	
			App'd: NA Drawn : NA Scale: NA Drg. Size: NA








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP506		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 24/3/05		DRILLING METHODS : Back hoe excavator	
							DRILLER : Hewden Hire		BOREHOLE DIAMETER : NA	
							LOGGED BY : PM		SCREEN TYPE & DIAM: NA	
							CHECKED BY : LCH		SCREEN SLOT SIZE: NA	
							DESCRIPTION		COMMENTS	
	0.3m	 * 0			0.0		MADE GROUND: Grass surface cover. Sandy clay topsoil.		Dry, NVO	0.0
							MADE GROUND: Loose, black, silty, gravelly sand with occasional boulders of black mudstone. Metal pipes and pieces of metal common. Sand is medium-fine. Gravel is medium-coarse and angular-rounded.			0.5
										1.0
										1.5
										2.0
		* 0			1.5		Soft, brown sandy CLAY with occasional coal fragments.		Moist, NVO	1.5
							Gravel common. Gravel is angular-rounded and varies from fine-coarse			2.0
							Cobbles (up to 13cm) at 2.3m			2.5
							Very gravelly and loose at 2.9m			3.0
										3.5
		* 0			3.0					3.0
										3.5
										4.0
										4.5
										5.0
							End of Borehole			5.0

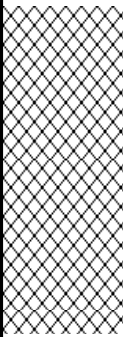


  

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  No groundwater encountered	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Phase II Investigations and Environmental assessments. Location: The Former Albright and Wilson Works, Whitehaven, Cumbria Client: Rhodia			
			App'd: NA	Date: 07/04/05	
			Drawn : NA	Ref: NA	
			Scale: NA	Job No: 44319623	
		Drg. Size: NA	BOREHOLE LOG		



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP507		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 24/3/05		DRILLING METHODS : Back hoe excavator	
							DRILLER : Hewden Hire		BOREHOLE DIAMETER : NA	
							LOGGED BY : PM		SCREEN TYPE & DIAM: NA	
							CHECKED BY : LCH		SCREEN SLOT SIZE: NA	
							DESCRIPTION		COMMENTS	
	0.3m	<div>* 0</div> <div>* 0</div> <div>* 0</div> <div>* 0</div> <div>* 0</div> <div>* 0</div> <div>* 0</div> <div>* 0</div> <div>* 0</div> <div>* 0</div>			<div>0.0</div> <div>0.5</div> <div>1.0</div> <div>1.5</div> <div>2.0</div> <div>2.5</div> <div>3.0</div> <div>3.5</div> <div>4.0</div> <div>4.5</div> <div>5.0</div>		MADE GROUND: Grass surface cover. Clayey sand with common coarse gravel.		Dry, NVO	0.0
							MADE GROUND: Brown, silty sand and gravel with frequent cobbles and boulders of red brick and concrete. Sand is medium. Gravel is medium-coarse and angular.			0.5
							MADE GROUND: Stiff, orange brown, slightly sandy clay (reworked).			
							MADE GROUND: loose black sand (probably coal).			
							MADE GROUND: Loose, dark grey sand with orange mottling and cobbles of rubble.			1.0
							Soft-firm, occasionally loose, orange brown with pink mottling, sandy CLAY with gravel. Gravel is fine-coarse.			2.0
							Gravel and cobbles of sandstone very frequent at 2.8m.			2.5
							Black staining at 4.0-4.2m			3.5
										4.0
										4.5
		5.0	End of Borehole							

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  No groundwater encountered		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Phase II Investigations and Environmental assessments. Location: The Former Albright and Wilson Works, Whitehaven, Cumbria Client: Rhodia			
				App'd: NA Drawn : NA Scale: NA Drg. Size: NA	Date: 07/04/05 Ref: NA Job No: 44319623 BOREHOLE LOG		







BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP508		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 24/3/05		DRILLING METHODS : Back hoe excavator	
							DRILLER : Hewden Hire		BOREHOLE DIAMETER : NA	
							LOGGED BY : PM		SCREEN TYPE & DIAM: NA	
							CHECKED BY : LCH		SCREEN SLOT SIZE: NA	
							DESCRIPTION	COMMENTS		
	0.4m	 * 0 * 0 * 0			0.0		MADE GROUND: Reinforced concrete.	Dry, NVO	0.0	
					0.5		MADE GROUND: Hardcore-angular gravel of limestone up to 10cm.			
					1.0		MADE GROUND: loose, grey, fine-medium sand with common medium-coarse gravel.			
					1.0		MADE GROUND: Dark brown/black silty sand with common angular gravel. Gravel varies from fine coarse. Occassional pieces of pipe.			
					1.0		MADE GROUND: Firm, orange brown, slightly sandy clay with common gravel. Gravel is mostly fine-medium with occassional coarse gravel.			
					1.5			Refusal on concrete at 1.25m	1.5	
					2.0				2.0	
					2.5				2.5	
					3.0				3.0	
					3.5				3.5	
					4.0				4.0	
					4.5				4.5	
					5.0				5.0	

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

No groundwater encountered

LEGEND


 Disturbed Sample  
 Undisturbed Sample  
 Headspace Analysis  
 Down Borehole Analysis  
 Groundwater Table  
 Perched Water Table

BOREHOLE LOG

Job Title: Phase II Investigations and Environmental assessments.

Location: The Former Albright and Wilson Works, Whitehaven, Cumbria

Client: Rhodia



App'd: NA

Date: 07/04/05

Drawn : NA

Ref: NA

Scale: NA

Job No: 44319623

Drg. Size: NA

BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP525		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 1/4/05		DRILLING METHODS : Back hoe excavator	
							DRILLER : Hewden Hire		BOREHOLE DIAMETER : NA	
							LOGGED BY : PM		SCREEN TYPE & DIAM: NA	
							CHECKED BY : LCH		SCREEN SLOT SIZE: NA	
							DESCRIPTION	COMMENTS		
0.3-0.5m	☒	* 0	0.0	MADE GROUND: Reinforced concrete	Dry, NVO	0.0				
		* 0	0.5			MADE GROUND: Loose, coarse gravel with silty fine sand.	0.5			
		* 0	1.0			MADE GROUND: Firm, brown, sandy clay with gravel and occasional black mottling. Gravel ranges from fine to coarse. Occasional cobbles and rare pieces of concrete.	1.0			
		* 0	1.5			Stiff, brown sandy SILT with common gravel. Gravel is fine to coarse and angular to rounded. Common flecks of coal.	1.5			
* 0	2.0	2.0								
		* 0	2.5		Dry, NVO	2.5				
			3.0	End of Borehole		3.0				
			3.5			3.5				
			4.0			4.0				
			4.5			4.5				
			5.0			5.0				

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  No groundwater encountered	<b>LEGEND</b> Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Phase II Investigations and Environmental assessments. Location: The Former Albright and Wilson Works, Whitehaven, Cumbria Client: Rhodia	
			App'd: NA      Date: 07/04/05 Drawn : NA      Ref: NA Scale: NA      Job No: 44319623 Drg. Size: NA      BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP631A		PAGE 1 of 1								
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting								
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a								
							LOGGED BY : ML		SCREEN TYPE & DIAM: n/a								
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a								
						DESCRIPTION		COMMENTS									
0.5m Leachate: (Metals, Cyanide, Orthophosphate, Sulphate, SVOCs) Soil: (Metals, Cyanide, Orthophosphate, Sulphate, VOCs, SVOCs)	X	*0.0	-	-	0.0	MADE GROUND. Grey - brown silt with frequent gravel and occasional brick fragments and rootlets.	Damp, NVO	0.0									
									MADE GROUND. Black ashy silty gravel with pockets of brown mottled black gravelly clay. Stained black railway sleepers and brick wall at 0.4m.	Hydrocarbon odour	0.5						
												MADE GROUND. Soft brown ashy silty clay with angular medium gravel, cobbles, and whole brick. Single clay pipe at 0.8m	Wet	1.0			
															MADE GROUND. Firm red - brown mottled black clayey silt.	Damp, black staining	1.5
2.0m Leachate: (pH, TPH-CWG) Soil: (Cyanide, pH, TPH (ali/aro split), VOCs, SVOCs)	X	*0.0	-	-	2.0	Refusal at 2.2m		2.5									
					2.5			3.0									
					3.0			3.5									
					3.5			4.0									
					4.0			4.5									
					4.5			5.0									
					5.0												

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

Ground Level 87.889 mAOD

Trial pit is backfilled with spoil

LEGEND

Disturbed Sample

Undisturbed Sample

Headspace Analysis

Down Borehole Analysis

Groundwater Table

Perched Water Table

BOREHOLE LOG

Job Title: Plots D,E,F,G, A & C Site Investigations

Location: Whitehaven

Client: Rhodia

App'd:

Date: 19/03/07

Drawn : LMB

Ref: Plot A

Scale: as shown

Job No: 44320215

Drg. Size: A4

BOREHOLE LOG

URS

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP632A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : ML		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
				DESCRIPTION		COMMENTS				
0.5m Leachate: (Metals, Cyanide, Sulphate, TPH-CWG, SVOCs) Soil: (Metals, Cyanide, Sulphate, TPH (ali/aro split), VOCs, SVOCs)	X	*0.0	X	X	0.0	MADE GROUND. Brown silt with gravel and rootlets.	Dry, NVO	0.0		
					0.5	MADE GROUND. Brown - red - orange clayey silt with black ash, coal and timber fragments.		0.5		
					1.0	Firm to stiff red brown mottled grey clayey SILT with occasional fine to medium gravel and flecks of coal.	Dry, NVO	1.0		
					1.5	Terminated at 1.5m.		1.5		
1.5m Leachate: (pH) Soil: (pH)	X	*0.0	X	X	2.0			2.0		
					2.5			2.5		
					3.0			3.0		
					3.5			3.5		
					4.0			4.0		
					4.5			4.5		
					5.0			5.0		

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  Ground Level 87.804 mAOD Trial pit is backfilled with spoil		<b>LEGEND</b> <div><div>X</div>Disturbed Sample</div> <div><div>■</div>Undisturbed Sample</div> <div><div>*</div>Headspace Analysis</div> <div><div>⬇</div>Down Borehole Analysis</div> <div><div>≡</div>Groundwater Table</div> <div><div>≡</div>Perched Water Table</div>		<b>BOREHOLE LOG</b> <div>Job Title: Plots D,E,F,G, A &amp; C Site Investigations</div> <div>Location: Whitehaven</div> <div>Client: Rhodia</div> <div><div>URS</div><div><div>App'd:</div><div>Drawn : LMB</div><div>Scale: as shown</div><div>Drg. Size: A4</div></div><div><div>Date: 19/03/07</div><div>Ref: Plot A</div><div>Job No: 44320215</div><div>BOREHOLE LOG</div></div></div>			
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP633A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : VS		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
				DESCRIPTION		COMMENTS				
0.5m Leachate: (Metals, Cyanide, pH, TPH-CWG, SVOCs) Soil: (Metals, Cyanide, pH, TPH (ali/aro split), SVOCs)	X	*0.0		0.0		MADE GROUND. Red - dark brown clayey silt with occasional black sand and gravel. Frequent brick fragments.		Damp, NVO  Hydrogen sulphide and surfactant odour NVO	0.0	
						MADE GROUND. Concrete.				0.5
						MADE GROUND. Black sandy silt with gravel and occasional coal and gravel fragments.				
						Stiff red - brown mottled black clayey SILT with occasional organic matter.				
						Soft to firm clayey SILT with pockets of soft dark brown clayey peat.				
1.5m Leachate: (Orthophosphate, TPH-CWG) Soil: (Cyanide, Orthophosphate, TPH (ali/aro split), VOCs, SVOCs)	X	*0.0		1.5		Terminated at 1.9m.		Damp, NVO	1.5	
										2.0

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP634A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : VS		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.5m Leachate: (Sulphate, TPH-CWG) Soil: (Sulphate, TPH-CWG)	*0.0			0.0	MADE GROUND. Brown silt with coarse gravel.	Dry	0.0			
				MADE GROUND. Cement.	Slight hydrogen sulphide odour					
				0.5	MADE GROUND. Dark brown ashy gravelly silt with occasional cobbles and brick fragments.	Dry, NVO	0.5			
				MADE GROUND. Red sandstone cobbles with some staining.	NVO					
				1.0	MADE GROUND. Black gravelly silt with cobbles and fragments of wood.	Wet, water has oily sheen	1.0			
				Soft yellow - brown very silty CLAY.	Unknown odour					
				1.5			1.5			
				2.0			2.0			
				2.5			2.5			
				3.0			3.0			
1.8m Leachate: (Metals, Cyanide, Orthophosphat e, pH, TPH- CWG) Soil: (Metals, Cyanide, Orthophosphat e, pH, TPH (ali/aro split)	*0.0			2.0	Terminated at 1.85m, 0.2m of groundwater had accumulated at the bottom of the trial pit.		2.0			
				2.5			2.5			
				3.0			3.0			
				3.5			3.5			
				4.0			4.0			
				4.5			4.5			
				5.0			5.0			
LOCATION / NOTES:		LEGEND		BOREHOLE LOG						
NVO = No visual or olfactory evidence of contamination		Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations						
Ground Level 88.665 mAOD		Undisturbed Sample		Location: Whitehaven						
Trial pit is backfilled with spoil		Headspace Analysis		Client: Rhodia						
		Down Borehole Analysis								
		Groundwater Table		App'd: _____ Date: 19/03/07						
		Perched Water Table		Drawn : LMB Ref: Plot A						
				Scale: as shown Job No: 44320215						
				Drg. Size: A4 BOREHOLE LOG						

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP635A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : VS		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
						DESCRIPTION		COMMENTS		
1.0m Leachate: (Metals, Cyanide, Orthophosphate, TPH-CWG) Soil: (Metals, Cyanide, Orthophosphate)	X	*0.0	-14	0.0	MADE GROUND. Red gravel.	NVO	0.0			
				0.5	MADE GROUND. Black to dark brown silt with fine to coarse sub-angular thinly laminated shale.	NVO	0.5			
				1.0	MADE GROUND. Black - dark brown silt with fine to coarse sub-angular thinly laminated gravel of shale. Occasional orange shale and brick fragments.	NVO	1.0			
				1.5			1.5			
				2.0			2.0			
3.9m Leachate: (Sulphate, pH, TPH-CWG) Soil: (Sulphate, pH, TPH-CWG)	X	*0.0	-14	2.5	Red - brown slightly gravely clayey SILT. Gravel is black fine to coarse subangular of shale.		2.5			
				3.0			3.0			
				3.5			3.5			
				4.0	Terminated at 3.9, on red SANDSTONE		4.0			
				4.5			4.5			
					5.0			5.0		

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

Ground Level 88.944 mAOB

Trial pit is backfilled with spoil

LEGEND

Disturbed Sample

Undisturbed Sample

\*

Headspace Analysis

+

Down Borehole Analysis

~

Groundwater Table

≡

Perched Water Table

BOREHOLE LOG

Job Title: Plots D,E,F,G, A & C Site Investigations

Location: Whitehaven

Client: Rhodia

URS

App'd:

Drawn : LMB

Scale: as shown

Drg. Size: A4

Date: 19/03/07

Ref: Plot A

Job No: 44320215

BOREHOLE LOG



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP636A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 8th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : VS		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
							DESCRIPTION	COMMENTS		
							MADE GROUND. Brown - black ashy gravelly silt with fragments of plastic, wood and rootlets.	NVO	0.0	
							MADE GROUND. Black ashy gravel.	NVO	0.5	
	0.5m Leachate: (Metals, Cyanide, Orthophosphat e, pH, TPH- CWG) Soil: (Metals, Cyanide, Orthophosphat e, pH, TPH- CWG, VOCs)	X	*0.0				MADE GROUND: Black angular gravel of shale with mudstone cobbles.	water has oily sheen	1.0	
	1.8m Leachate: (Sulphate, TPH-CWG, SVOCs) Soil: (Sulphate, TPH-CWG, SVOCs)	X	*0.0				Stiff red - brown very silty CLAY.		1.5	
							Terminated at 1.85m.		2.0	
									2.5	
									3.0	
									3.5	
									4.0	
									4.5	
									5.0	

**LOCATION / NOTES:**

NVO = No visual or olfactory evidence of contamination

Ground Level 87.862 mAOD

Trial pit is backfilled with spoil

**LEGEND**

X Disturbed Sample

■ Undisturbed Sample

\* Headspace Analysis

† Down Borehole Analysis

⬇ Groundwater Table

⬇ Perched Water Table

**BOREHOLE LOG**

Job Title: Plots D,E,F,G, A & C Site Investigations

Location: Whitehaven

Client: Rhodia

App'd: \_\_\_\_\_

Drawn : LMB

Scale: as shown

Drg. Size: A4

Date: 19/03/07

Ref: Plot A

Job No: 44320215

BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP637A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007	DRILLING METHODS : Trial Pitting		
							DRILLER : Joy Plant	BOREHOLE DIAMETER : n/a		
							LOGGED BY : VS	SCREEN TYPE & DIAM: n/a		
							CHECKED BY : ARD	SCREEN SLOT SIZE: n/a		
				DESCRIPTION		COMMENTS				
0.5m Leachate: (Metals, Cyanide, Orthophosphat e, Sulphate, pH, TPH- CWG, SVOCs) Soil: (Metals, Cyanide, Orthophosphat e, Sulphate, pH, TPH- CWG, VOCs, SVOCs)	X	*0.1	X	0.0	MADE GROUND. Grass over red - grey gravelly silt with occassional bricks.	Damp  Damp	0.0			
		*0.1		0.5	MADE GROUND. Black gravelly silt with cobbles and occassional re-bar.		0.5			
		*0.1		1.0	MADE GROUND. Concrete.		1.0			
		*0.1		1.5	MADE GROUND. Black ashy slightly sandy clay with fine to coarse sub-angular to sub-rounded gravel. Occassional fragments of brick and concrete.		1.5			
		*0.1		2.0	MADE GROUND. Grey - dark brown gravelly slightly clayey sand with fragments of brick. Gravel is fine to coarse sub-angular to sub-rounded of sandstone, limestone and shale.		2.0			
		*0.1		2.5	MADE GROUND. Firm red brown slightly sandy gravelly clay with frequent limestone cobbles and occassional brick fragments. Gravel is fine to medium rounded to sub-rounded of sandstone, limestone and shale.		2.5			
					3.0	Terminated at 2.8m on concrete.		3.0		
					3.5			3.5		
					4.0			4.0		
					4.5			4.5		
					5.0			5.0		

LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination  Ground Level 88.545 mAOD Trial pit is backfilled with spoil		LEGEND <div><div>X</div>Disturbed Sample</div> <div><div>■</div>Undisturbed Sample</div> <div><div>*</div>Headspace Analysis</div> <div><div>+</div>Down Borehole Analysis</div> <div><div>—</div>Groundwater Table</div> <div><div>≡</div>Perched Water Table</div>		BOREHOLE LOG <div>Job Title: Plots D,E,F,G, A &amp; C Site Investigations</div> <div>Location: Whitehaven</div> <div>Client: Rhodia</div> <div><div>URS</div><div><div>App'd:</div><div>Drawn : LMB</div><div>Scale: as shown</div><div>Drg. Size: A4</div></div><div><div>Date: 19/03/07</div><div>Ref: Plot A</div><div>Job No: 44320215</div><div>BOREHOLE LOG</div></div></div>	
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP638A		PAGE 1 of 1		
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting		
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a		
							LOGGED BY : LB		SCREEN TYPE & DIAM: n/a		
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a		
0.6m Leachate: (Metals, Cyanide, Orthophosphat e, Sulphate, pH, TPH- CWG, SVOCs) Soil: (Metals, Cyanide, Orthophosphat e, Sulphate, pH, TPH- CWG, VOCs, SVOCs)					0.0		DESCRIPTION		COMMENTS	0.0	
							MADE GROUND. Concrete with re-bar.				
							MADE GROUND. Grey medium to coarse angular gravel.				
							Firm to stiff red brown slightly sandy CLAY with frequent fine to coarse sub-angular to sub-rounded gravel and occassional sandstone cobbles.				

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP639A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LB		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
							DESCRIPTION	COMMENTS		
0.5m Leachate: (Sulphate, pH, TPH-CWG) Soil: (Sulphate, pH, TPH-CWG, VOCs)		X	*0.0		0.0	MADE GROUND. Concrete with re-bar.			0.0	
			*0.0		0.5	MADE GROUND. Grey coarse angular gravel.			0.5	
			*0.0		1.0	MADE GROUND. Pale grey - pink coarse angular gravel.			1.0	
					1.5	Firm to stiff red brown mottled orange and grey sandy CLAY with frequent fine to coarse sub-angular to sub-rounded gravel and occassional pale grey silt laminations.	Sweet chemical odour (0-1m)	1.5		
					2.0			2.0		
					2.5			2.5		
					3.0			3.0		
					3.5	Terminated at 3m.		3.5		
					4.0			4.0		
					4.5			4.5		
					5.0			5.0		



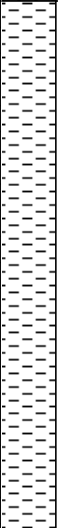

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  Ground Level 84.596 mAOD Trial pit is backfilled with spoil		<b>LEGEND</b> Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plots D,E,F,G, A & C Site Investigations Location: Whitehaven Client: Rhodia <div> </div> <div> <table border="1"> <tr> <td>App'd:</td> <td>Date: 19/03/07</td> </tr> <tr> <td>Drawn : LB</td> <td>Ref: Plot A</td> </tr> <tr> <td>Scale: as shown</td> <td>Job No: 44320215</td> </tr> <tr> <td>Drg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table> </div>		App'd:	Date: 19/03/07	Drawn : LB	Ref: Plot A	Scale: as shown	Job No: 44320215	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: 19/03/07												
Drawn : LB	Ref: Plot A												
Scale: as shown	Job No: 44320215												
Drg. Size: A4	BOREHOLE LOG												








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP640A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LB		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
				DESCRIPTION		COMMENTS				
4.0m Leachate: (TPH-CWG, SVOCs) Soil: (TPH- CWG, VOCs, SVOCs)	X		*0.0	1.0	MADE GROUND. Concrete with re-bar.	MADE GROUND. Grey coarse angular gravel.	Firm to stiff red brown sandy CLAY with occassional pale grey silt bands and orange - brown fine to medium sand laminations and frequent fine to coarse sub-angular to sub-rounded gravel.	Dry, NVO	0.0	
									0.5	
									1.0	
									1.5	
									2.0	
									2.5	
									3.0	
									3.5	
									4.0	
									4.5	
				Terminated at 4.1m.			5.0			

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		<div><div>X</div>Disturbed Sample</div> <div><div>■</div>Undisturbed Sample</div> <div><div>*</div>Headspace Analysis</div> <div><div>+</div>Down Borehole Analysis</div> <div><div>~</div>Groundwater Table</div> <div><div>≡</div>Perched Water Table</div>		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 84.254mAOD				Location: Whitehaven	
Trial pit is backfilled with spoil				Client: Rhodia	
				App'd: Date: 19/03/07	
				Drawn : LMB Ref: Plot A	
				Scale: as shown Job No: 44320215	
				Drg. Size: A4 BOREHOLE LOG	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP641A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LB		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
3.5m Leachate: (Orthophosphate, TPH-CWG, SVOCs) Soil: (Orthophosphate, TPH-CWG, SVOCs)	X	*0.0	*0.0	X	0.0	MADE GROUND. Concrete with re-bar.	Wet, NVO	0.0		
					MADE GROUND. Grey coarse angular gravel.	0.5				
					Firm to stiff red brown slightly sandy CLAY with frequent fine to coarse sub-angular to sub-rounded gravel.	1.0				
					2.0					
					2.5					
3.0										
3.5										
4.0										
4.5										
5.0										
LOCATION / NOTES:		LEGEND		BOREHOLE LOG						
NVO = No visual or olfactory evidence of contamination		X Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations						
Ground Level 84.289 mAOD		■ Undisturbed Sample		Location: Whitehaven						
Trial pit is backfilled with spoil		* Headspace Analysis		Client: Rhodia						
		+ Down Borehole Analysis		App'd:		Date: 19/03/07				
		⬇ Groundwater Table		Drawn : LMB		Ref: Plot A				
		⬇ Perched Water Table		Scale: as shown		Job No: 44320215				
				Drg. Size: A4		BOREHOLE LOG				

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP642A		PAGE 1 of 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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0.5m Leachate: (Metals, Cyanide, Orthophosphat e, pH, TPH- CWG, SVOCs) Soil: (Metals, Cyanide, Orthophosphat e, pH, TPH- CWG, VOCs, SVOCs)	X	*0.0	*0.0	*0.0	0.0		MADE GROUND. Concrete with re-bar.		Damp. Slight TPH odour	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
							MADE GROUND. Grey coarse angular gravel.				Dry, NVO	0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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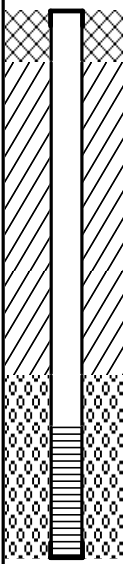
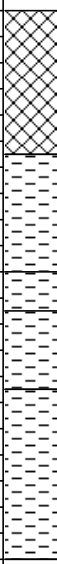
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP643A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LB		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
1.0m Leachate: (Metals, Cyanide, Sulphate, pH, TPH-CWG) Soil: (Metals, Cyanide, Sulphate, pH, TPH-CWG, VOCs)	X				0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	   	DESCRIPTION		COMMENTS	
							MADE GROUND. Concrete with re-bar.		Wet, NVO  NVO	0.0
							MADE GROUND. Coarse angular gravel.			0.5
							Firm to stiff red brown slightly sandy CLAY with some fine to coarse sub-angular to sub-rounded gravel and frequent sub-rounded cobbles and occasional boulders.		NVO	1.0
										1.5
										2.0
										2.5
							Pale grey - pink fine grained LIMESTONE (weathered bedrock).		NVO	2.5
							Terminated at 2.7m.			3.0
										3.5
		4.0								
		4.5								
		5.0								








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  Ground Level 84.272 mAOD Trial pit is backfilled with spoil		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Plots D,E,F,G, A & C Site Investigations Location: Whitehaven Client: Rhodia			App'd: Drawn : LMB Scale: as shown Drg. Size: A4	Date: 19/03/07 Ref: Plot A Job No: 44320215 BOREHOLE LOG
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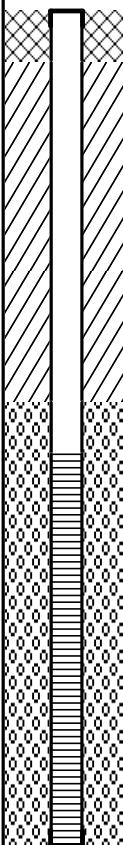
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP644A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LB		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
				DESCRIPTION		COMMENTS				
2.0m Leachate: (Orthophosphate, Sulphate, TPH-CWG) Soil: (Orthophosphate, Sulphate, TPH-CWG)	X	*0.0	*0.0	*0.0	MADE GROUND. Concrete hardstanding with re-bar.	Dry, NVO	0.0			
		*0.0						MADE GROUND. Coarse angular gravel.	Dry, NVO	1.5
		*0.0								
		*0.0								
		*0.0								
*0.0										
*0.0										
					Pale grey - pink fine grained LIMESTONE (weathered bedrock).		3.5			
					Refusal at 3.4m on bedrock.					
							4.0			
							4.5			
							5.0			








LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		<div><div>X</div>Disturbed Sample</div> <div><div>■</div>Undisturbed Sample</div> <div><div>*</div>Headspace Analysis</div> <div><div>+</div>Down Borehole Analysis</div> <div><div>~</div>Groundwater Table</div> <div><div>≡</div>Perched Water Table</div>		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 84.618 mAOD				Location: Whitehaven	
Trial pit is backfilled with spoil				Client: Rhodia	
				URS	App'd:
					Drawn : LMB
					Scale: as shown
					Drg. Size: A4
				Date: 19/03/2007	
				Ref: Plot A	
				Job No: 44320215	
				BOREHOLE LOG	

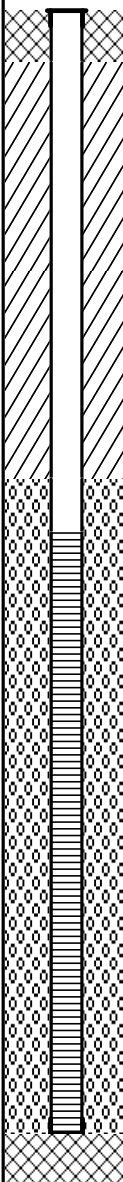

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS505A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Window Sampling	
							DRILLER : Global Probing and Sampling		BOREHOLE DIAMETER : 200mm	
							LOGGED BY : LMB		SCREEN TYPE & DIAM: 50mm	
							CHECKED BY : ARD		SCREEN SLOT SIZE: 1mm	
DESCRIPTION		COMMENTS								
	0.9m	Leachate: (Metals, Cyanide, Orthophosp hate, Sulphate, pH) Soil: (Metals, Cyanide, Orthophosp hate, Sulphate, pH)	PID not working		0.0		MADE GROUND. Brown slightly clayey fine to coarse sub-angular to angular gravel of limestone with frequent cobbles.		Dry	0.0
				0.5	Firm red - brown CLAY with rare medium sub-angular gravel of sandstone.		0.5			
				1.0	Soft dark brown CLAY with occassional rootlets.		Damp	1.0		
				1.5	Soft light brown - orange very gravelly CLAY. Gravel is fine to coarse sub-angular to angular of sandstone.		Damp	1.5		
				2.0	Red brown clay with abundant fine to coarse gravel of sandstone (weathered bedrock) with frequent cobbles.		Dry	2.0		
	1.2m	Leachate: (SVOCs)					Refusal at 2.1m on SANDSTONE bedrock.		Dry	2.0
	1.4m	Leachate: (TPH-CWG) Soil: (TPH (ali/ar split), VOCs, SVOCs)								2.5
					2.5					2.5
					3.0					3.0
					3.5					3.5
					4.0					4.0
					4.5					4.5
					5.0					5.0

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		 Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 86.085 mAOD		 Undisturbed Sample		Location: Whitehaven	
Trial pit is backfilled with spoil		 Headspace Analysis		Client: Rhodia	
		 Down Borehole Analysis			
		 Groundwater Table		App'd: _____	
		 Perched Water Table		Date: 19/03/07	
				Drawn : LMB	
				Ref: Plot A	
				Scale: as shown	
				Job No: 44320215	
				Drg. Size: A4	
				BOREHOLE LOG	



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS507A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Window Sampling	
							DRILLER : Global Probing and Sampling		BOREHOLE DIAMETER : 200mm	
							LOGGED BY : LMB		SCREEN TYPE & DIAM: 50mm	
							CHECKED BY : ARD		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
	1.1m Leachate: (TPH-CWG) Soil: (TPH (ali/aro split), VOCs, SVOCs)				0.0	MADE GROUND. Turf over light brown slightly sandy gravel. Gravel is fine to medium sub-angular to angular.	Dry Dry	0.0		
					0.5	MADE GROUND. Black fine to medium sand.		0.5		
					1.0	MADE GROUND. Light brown slightly sandy gravel. Gravel is fine to medium sub-angular to angular.	Dry	1.0		
					1.5	MADE GROUND. firm light brown mottled orange slightly gravelly clay with frequent coal flecks. Gravel is fine to medium and sub-rounded.	Dry Damp	1.5		
	1.5m Leachate: (Metals, Cyanide, Orthophosphat e, Sulphate, pH, SVOCs) Soil: (Metals, Cyanide, Orthophosphat e, Sulphate, pH)				2.0	MADE GROUND. Firm dark brown very gravelly clay with frequent coal flecks and brick fragments. gravel is fine to coarse and sub-rounded to rounded.	Wet	2.0		
					2.5	MADE GROUND. Firm dark brown slightly gravelly clay with frequent coal flecks. Gravel is sub-rounded.		2.5		
					3.0	MADE GROUND. Soft dark brown - black mottled orange slightly gravelly clay with frequent coal flecks and occasional cobbles. Gravel is fine to medium and sub-angular to angular.		3.0		
					3.5	Very soft light brown slightly gravelly CLAY. Gravel is fine to medium and sub-rounded to sub-angular.		3.5		
					4.0	Brown clay with abundant gravel or sandstone (weathered BEDROCK).		4.0		
					4.5	Light orange clay with abundant gravel or sandstone (weathered BEDROCK).		4.5		
									5.0	

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		 Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 85.838 mAOD		 Undisturbed Sample		Location: Whitehaven	
Trial pit is backfilled with spoil		 Headspace Analysis		Client: Rhodia	
		 Down Borehole Analysis			
		 Groundwater Table		App'd: _____ Date: 19/03/07	
		 Perched Water Table		Drawn : LMB Ref: Plot A	
				Scale: as shown Job No: 44320215	
				Drg. Size: A4 BOREHOLE LOG	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS508A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 7th March 2007		DRILLING METHODS : Window Sampling	
							DRILLER : Global Probing and Sampling		BOREHOLE DIAMETER : 200mm	
							LOGGED BY : PM		SCREEN TYPE & DIAM: 50mm	
							CHECKED BY : ARD		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
	0.1m Leachate: (Orthophosphate, pH, TPH-CWG, SVOC)		*0.0		0.0	MADE GROUND. Concrete.	Dry, NVO  Damp, NVO	0.0		
	0.2m Soil: (Orthophosphate, pH, TPH-CWG, VOCs, SVOCs)		*0.0		0.5	MADE GROUND. Dark grey slightly sandy clayey fine to coarse sub-angular to angular gravel of limestone with occasional red brick fragments and pieces of plastic and some red brick and concrete cobbles. Pocket of black staining at 0.2m.		0.5		
				*0.0		1.0		Firm dark grey slightly gravelly CLAY with some black organic rootlets. Gravel is fine sub-angular to sub-rounded of sandstone.	1.0	
				*0.0		1.5		Soft to firm brown mottled grey - black slightly gravelly CLAY, with occasional coal flecks. Gravel is sub-angular to sub-rounded fine to medium of sandstone.	1.5	
						2.0		Stiff red brown mottled orange - yellow - grey very gravelly CLAY with occasional coal flecks. Gravel is fine to coarse sub-rounded to sub-angular of sandstone, limestone and gritstone.	2.0	
	2.4m Leachate: (TPH-CWG) Soil: (TPH-CWG)		*0.0		2.5	Pocket of coarse sand at 3.7m.		2.5		
				*0.0		3.0		Frequent grey coarse gravel from 4.2m (possible weathered bedrock).	3.0	
				*0.0		3.5			3.5	
				*0.0		4.0			4.0	
			*0.0		4.5			4.5		
				5.0		5.0				
Refusal at 4.5m on bedrock.										



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS510A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Window Sampling	
							DRILLER : Global Probing Sampling		BOREHOLE DIAMETER : 200mm	
							LOGGED BY : PM		SCREEN TYPE & DIAM: 50mm	
							CHECKED BY : ARD		SCREEN SLOT SIZE: 1mm	
DESCRIPTION							COMMENTS			
	0.7m Leachate: (Metals, Cyanide, Orthophosp hate, Sulphate, pH) Soil: (Metals, Cyanide, Orthophosp hate, Sulphate, pH)		*0.0		0.0	MADE GROUND. Dark grey slightly clayey fine to medium sub-angular to angular gravel of concrete and shale.	Dry, NVO	0.0		
			*0.0		0.5	MADE GROUND. White fine to medium angular to sub-angular gravel of concrete.			0.5	
					1.0	MADE GROUND. Black ashy clayey fine to medium sub-angular to angular gravel with clinker and rare brick fragments.	Dry, NVO	1.0		
					1.5	MADE GROUND. Stiff black mottled red grey beige very gravelly clay with fragments of red brick. Gravel is sub-angular to angular fine to coarse of shale gritstone and concrete.			1.5	
					2.0	MADE GROUND. Reworked coarse gravel of sandstone with frequent cobbles and thin laminations.	Damp, NVO	2.0		
					2.5	MADE GROUND. Reworked brown mottled yellow and purple slightly clayey fine to coarse sub-angular to angular gravel of sandstone.			2.5	
					3.0	Soft to firm orange slightly gravelly sandy CLAY with coal flecks and pockets of orange coarse sandstone. Gravel is fine sub-angular to sub-rounded of sandstone.			3.0	
					3.5		Damp, NVO	3.5		
	3.5m Soil: (VOCs)				4.0	Soft dark brown CLAY with organic rootlets.			4.0	
	3.75m Leachate: (TPH-CWG) Soil: (TPH (ali/aro split))		*0.0		4.5	Brown slightly sandy fine to coarse sub-angular and sub-rounded GRAVEL of sandstone.			4.5	
				5.0				5.0		
LOCATION / NOTES:						LEGEND		BOREHOLE LOG		
NVO = No visual or olfactory evidence of contamination						Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations		
Ground Level 87.841 mAOD						Undisturbed Sample		Location: Whitehaven		
Trial pit is backfilled with spoil						Headspace Analysis		Client: Rhodia		
						Down Borehole Analysis				
						Groundwater Table		App'd:		
						Perched Water Table		Date: 20/03/07		
								Drawn : LMB		
								Ref: Plot A		
								Scale: as shown		
								Job No: 44320215		
								Drg. Size: A4		
								BOREHOLE LOG		

# Monitoring Well Log: SB9

Page 1 of 2

Client:	Huntsman Surface Sciences Ltd.	Borehole Diameter:	100mm
Site Location:	Whitehaven	Total Depth (m):	4.20m bgl
Project No:	9150	Ground Level (mAOD):	85.74m AD
Logged by:	RAM	Casing Level (mAOD):	-
Dates Drilled:	12/12/2002	X Co-ordinate:	-
Drilling Company:	Global Probing and Sampling	Y Co-ordinate:	-
Drilling Method:	Percussive Sampling	Drilling Rig:	Archway Competitor 130

Well Description	Well Construction	Elevation	Depth	TOV (ppmv)	Groundwater	Sample Interval	Sample No.	Graphic Log	Soil Description	Observations
Well cap		0.0	0.0						TOPSOIL: Turf	
Concrete				12.5					TOPSOIL: Soft dark brown slightly sandy angular fine to coarse gravel of Sandstone with much rootlets	
		-0.5	-0.5						MADE GROUND: Soft black slightly ashy Clay with occasional angular fine to medium gravel of brick fragments and rootlets	
									MADEGROUND: Soft reddish brown sandy Clay with much angular gravel of red brick and coal fragments	
Bentonite		-1.0	-1.0						MADE GROUND: Soft reddish brown sandy Clay with much angular coarse gravel of Sandstone with occasional glass coal and red brick fragments	
		-1.5	-1.5						MADE GROUND: Loose sandy slightly clayey very ashy angular fine to coarse Gravel of red brick fragments and a chard wooden stake	
		-2.0	-2.0	24.1			SB09 1.60- 1.70m bgl			Strata noted to contain evidence of coke/coal between 1.22 and 1.29m bgl

☐ Groundwater Strike: Dry

☐ Standing Groundwater Level: Dry

Comments:

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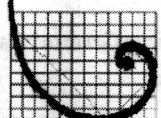
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Location:

Located down suspected hydraulic gradient of the Lagoon.



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# MONITORING WELL LOG: SB9

Well Description	Well Construction	Elevation	Depth	TOV (ppmv)	Groundwater	Sample Interval	Sample No.	Graphic Log	Soil Description	Observations
		-2.5	-2.5						MADE GROUND: Very soft sandy Clay with much angular fine gravel of red brick, coke and glass fragments	Strata noted to be slightly damp at 2.32m bgl
		-3.0	-3.0	22.7					Soft to firm dark reddish brown slightly sandy CLAY with much angular to sub-rounded gravel of Sandstone	
Gravel pack		-3.5	-3.5	15.7						
End cap										Sweet odour noted to strata at 3.90m bgl
Collapse		-4.0	-4.0	18.7					Hard light well cemented brown to dark red medium grained SANDSTONE	Soil Bore completed at 4.20m bgl at completion depth

☐ Groundwater Strike: Dry

☐ Standing Groundwater Level: Dry

Comments:

Location:

Located down suspected hydraulic gradient of the Lagoon.

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SOIL BORE LOG: SB13

Client:	Huntsman Surface Sciences Ltd.	Borehole Diameter:	100mm
Site Location:	Whitehaven	Total Depth (m):	2.70m bgl
Project No:	9150	Ground Level (mAOD):	84.702 AD
Logged by:	RAM	Casing Level (mAOD):	-
Dates Drilled:	15/01/2003	X Co-ordinate:	-
Drilling Company:	Global Probing and Sampling	Y Co-ordinate:	-
Drilling Method:	Percussive Sampling	Drilling Rig:	Archway Competitor 130

Description	Backfill Construction	Elevation	Depth	TOV (ppmv)	Groundwater	Sample Interval	Sample No.	Graphic Log	Soil Description	Observations
Well cap		0.0	0.0						CONCRETE: Reinforced concrete hardstanding	
Concrete				70.6					MADE GROUND: Soft to firm dark brown to orange slightly sandy Clay with much fine to medium angular gravel of concrete and red brick fragments	
		-0.5	-0.5	54.1					Soft to firm dark reddish brown to orange sandy CLAY with much fine to medium subrounded gravel	
Bentonite										
		-1.0	-1.0	32.6						
Gravel pack										
		-1.5	-1.5							
		-2.0	-2.0	70.2			SB13 1.95- 2.05m bgl	x x x x x x x x	Soft dark brown SILT	Strata noted to contain evidence of organic matter at 2.00m bgl

☐ Groundwater Strike:

2.31m bgl

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☐ Standing Groundwater Level:

Dry

Suite 8.01

Comments:

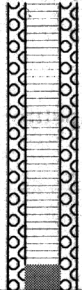
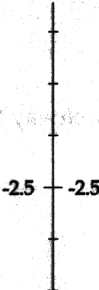

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Location:  
Located adjacent to copper chromite drums and chromium triox



MONITORING WELL LOG: SB13

Well Description	Well Construction	Elevation	Depth	TOV (ppmv)	Groundwater	Sample Interval	Sample No.	Graphic Log	Soil Description	Observations
				51.3	M				Highly weathered to weathered light grey fine to medium grained SANDSTONE	Strata noted to be slightly damp at 2.31m bgl  Soil bore completed at 2.70m bgl due refusal on hard Sandstone

☐ Groundwater Strike: 2.31m bgl

☐ Standing Groundwater Level: Dry

Comments:

Location:  
Located adjacent to copper chromite drums and chromium triox

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SOIL BORE LOG: SB16

Page 1 of 1

Client:	Huntsman Surface Sciences Ltd.	Borehole Diameter:	100mm
Site Location:	Whitehaven	Total Depth (m):	3.90 mbgl
Project No:	9150	Ground Level (mAOD):	84.543 AD
Logged by:	RAM	Casing Level (mAOD):	-
Dates Drilled:	15/01/2003	X Co-ordinate:	-
Drilling Company:	Global Probing and Sampling	Y Co-ordinate:	-
Drilling Method:	Percussive Sampling	Drilling Rig:	Archway Competitor 130

Description	Backfill Construction	Elevation	Depth	TOV (ppmv)	Groundwater	Sample Interval	Sample No.	Graphic Log	Soil Description	Observations
		0.0	0.0						CONCRETE: Reinforced Concrete	
				45.5					MADE GROUND: Loose dark grey sandy clayey angular fine to medium Gravel	
		-0.5	-0.5						Firm dark orange to brown slightly sandy CLAY with much fine to medium subangular to subrounded gravel of Sandstone and some black organics	
		-1.0	-1.0	48.6			SB16 1.10- 1.20m bgl			
		-1.5	-1.5							
		-2.0	-2.0							
		-2.5	-2.5	45.0						
		-3.0	-3.0						Firm to stiff dark brown CLAY with much fine to medium subangular to subrounded gravel of Sandstone with occasional black organics	
		-3.5	-3.5	72.5						Soil bore completed at 3.90m bgl due refusal on hard Sandstone
									Moderately weak well cemented light brown fine grained SANDSTONE	

- ☐ Groundwater Strike: Dry
- ☐ Standing Groundwater Level: Dry

Comments:  
Soil bore backfilled with cement bentonite grout

Location:  
Located adjacent to the AST farm.

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