

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB011		PAGE 1 of 2	
	NUMBER	TYPE					START DATE: 29/3/99		DRILLING METHOD: HYDRAULIC PERCUSSIVE	
							FINISH DATE: 30/3/99		BOREHOLE DIAMETER: 130/80 mm	
							DRILLER: GEOTECHNICAL		SCREEN TYPE & DIAMETER: POLYPROPYLENE 50mm	
								SCREEN SLOT SIZE: 1 mm		
							DESCRIPTION	COMMENTS		
							0	CONCRETE (MADE GROUND)		0
							0.5	Loose brown SAND with gravel (MADE GROUND)	Damp below concrete	0.5
							1.0	CONCRETE (MADE GROUND)	Some fall back in initial sample run	1.0
							1.3	Soft greyish brown gravelly silty CLAY with some angular sandstone fragments and cobbles at 1.3m	Very strong hydrocarbon odour	
							1.5	Soft orange-brown silty CLAY with some gravel and fine sand and cobbles	Damp	1.5
							2.0		Strong hydrocarbon odour	2.0
							2.5	Firm brown and slightly orangey CLAY with some sub-rounded fine gravel	No odour Dry	2.5
							3.0	Firm to stiff dark brown slightly gravelly (sub-angular) CLAY	Dry	
							3.6	becoming stiff at 3m		3.0
							3.5	Soft to firm dark grey-brown gravelly CLAY	Gravels damp no odour	3.5
							4.0	Firm to stiff brown slightly gravelly CLAY		
							4.0	becoming more gravelly at 3.6m		4.0
							4.5	Firm slightly orange-brown slightly silty and sandy CLAY with occasional coarse gravel		
							4.5	Soft grey-brown sandy SILT	Wet No odour	4.5
							5.0		Poor returns	5.0

LOCATION / NOTES: 1. All measurements in m below ground level (mbgl) 2. Hole size telescoped to smaller diameter with depth	LEGEND Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">BOREHOLE LOG</th> </tr> <tr> <td style="width: 50%;">Job Title</td> <td style="text-align: center;">SOIL & GROUNDWATER INVESTIGATION</td> </tr> <tr> <td>Location</td> <td style="text-align: center;">LLANDARCY REFINERY</td> </tr> <tr> <td>Client</td> <td style="text-align: center;">BP LLANDARCY LTD</td> </tr> <tr> <td>App'd</td> <td style="text-align: center;">DRAFT</td> </tr> <tr> <td>Ref.</td> <td style="text-align: center;">SG/CR/BR5</td> </tr> <tr> <td>Date</td> <td style="text-align: center;">MAY 99</td> </tr> <tr> <td>Job No.</td> <td style="text-align: center;">39991-004-401</td> </tr> </table> DAMES & MOORE GROUP	BOREHOLE LOG		Job Title	SOIL & GROUNDWATER INVESTIGATION	Location	LLANDARCY REFINERY	Client	BP LLANDARCY LTD	App'd	DRAFT	Ref.	SG/CR/BR5	Date	MAY 99	Job No.	39991-004-401
BOREHOLE LOG																		
Job Title	SOIL & GROUNDWATER INVESTIGATION																	
Location	LLANDARCY REFINERY																	
Client	BP LLANDARCY LTD																	
App'd	DRAFT																	
Ref.	SG/CR/BR5																	
Date	MAY 99																	
Job No.	39991-004-401																	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB011		PAGE 2 of 2	
	NUMBER	TYPE					START DATE: 29/3/99	DRILLING METHOD: HYDRAULIC PERCUSSIVE		
							FINISH DATE: 30/3/99		BOREHOLE DIAMETER: 130/80 mm	
							DRILLER: GEOTECHNICAL		SCREEN TYPE & DIAMETER: POLYPROPYLENE 50mm	
							LOGGED BY: SG APPR'D BY:		SCREEN SLOT SIZE: 1 mm	
							DESCRIPTION		COMMENTS	
					5		Soft grey-brown sandy SILT			5
					5.5		Firm to stiff orange-brown gravelly CLAY with sandstone cobbles and boulders			5.5
			*2.8		6.0					6.0
					6.5					6.5
					7.0					7.0
					7.5					7.5
					8.0					8.0
					8.5					8.5
					9.0					9.0
					9.5					9.5
					10.0					10.0

LOCATION / NOTES:

- All measurements in m below ground level (mbgl)
- Hole size telescoped to smaller diameter with depth

LEGEND

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

BOREHOLE LOG

Job Title **SOIL & GROUNDWATER INVESTIGATION**

Location **LLANDARCY REFINERY**

Client **BP LLANDARCY LTD**

App'd **DRAFT**

Ref. **SG/CR/BRS**

Date **MAY 99**

Job No. **39991-004-401**

DAMES & MOORE
GROUP

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB013		PAGE 1 of 2	
	NUMBER	TYPE					START DATE: 31/3/99		DRILLING METHOD: HYDRAULIC PERCUSSIVE	
							FINISH DATE: 31/3/99		BOREHOLE DIAMETER: 130/80 mm	
							DRILLER: GEOTECHNICAL		SCREEN TYPE & DIAMETER: POLYPROPYLENE 50mm	
				LOGGED BY: SG APPR'D BY:		SCREEN SLOT SIZE: 1 mm				
							DESCRIPTION	COMMENTS		
					0		CONCRETE (MADE GROUND)			0
							Loose grey medium gravel (MADE GROUND)			
					0.5		Loose brown sandy and silty GRAVEL with some ash and polystyrene foam at 0.35m (MADE GROUND)	Damp		0.5
							Loose to medium coarse black-grey sandy fine to medium GRAVEL with some cobbles (MADE GROUND)	Oily appearance and odour		1.0
					1.0			Wet		
							becoming dense or large cobble at 1.3m			1.5
					1.5					
							Soft black fine silty sand (PFA) (MADE GROUND)	very strong 'sickly' sweet garlic-like odour		2.0
					2.0					
							Firm to stiff brown gravelly CLAY with occasional cobbles and some sand	Damp		2.5
					2.5			Sweet odour		
										3.0
					3.0			Slight sweet odour damp		
							becoming firm from 3.5m			3.5
					3.5					
										4.0
					4.0			No odour		
							Firm to stiff grey slightly gravelly sandy CLAY with predominantly gravel rich layers at 4.5m and 4.6m	Water ingress noted along gravel layers		4.5
					4.5			No odour		
										5.0
					5.0		Firm orange-brown sandy silty CLAY			

LOCATION / NOTES: 1. All measurements in m below ground level (mbgl) 2. Borehole backfilled with bentonite to 5m 3. Hole size telescoped to smaller diameter with depth		LEGEND Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		BOREHOLE LOG Job Title SOIL & GROUNDWATER INVESTIGATION Location LLANDARCY REFINERY Client BP LLANDARCY LTD App'd DRAFT Ref. SG/CR/BRS Date MAY 99 Job No. 39991-004-401	
				DAMES & MOORE GROUP	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB013		PAGE 2 of 2	
	NUMBER	TYPE					START DATE: 31/3/99		DRILLING METHOD: HYDRAULIC PERCUSSIVE	
							FINISH DATE: 31/3/99		BOREHOLE DIAMETER: 130/80 mm	
							DRILLER: GEOTECHNICAL		SCREEN TYPE & DIAMETER: POLYPROPYLENE 50mm	
				LOGGED BY: SG APPR'D BY:		SCREEN SLOT SIZE: 1 mm				
					5		DESCRIPTION		COMMENTS	
					5	X	Firm orange-brown sandy silty CLAY		No odour	
						X	Firm grey and orange-brown sandy clayey SILT with frequent fine to medium gravel and occasional cobbles		Dry	
			*0		5.5	X	Firm orange slightly sandy and silty CLAY with some fine gravel		No odour	
			*0		6.0	X			Dry	
					6.5	X				
					7.0					
					7.5					
					8.0					
					8.5					
					9.0					
					9.5					
					10.0		Borehole terminated at 6.5 mbgl			

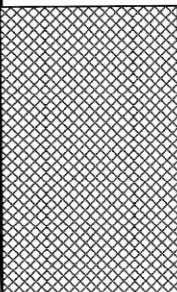
LOCATION / NOTES: 1. All measurements in m below ground level (mbgl) 2. Borehole backfilled with bentonite to 5m 3. Hole size telescoped to smaller diameter with depth		LEGEND X Disturbed Sample ■ Undisturbed Sample * Headspace Analysis † Down Borehole Analysis ▼ Groundwater Table ▼ Perched Water Table	BOREHOLE LOG Job Title SOIL & GROUNDWATER INVESTIGATION Location LLANDARCY REFINERY Client BP LLANDARCY LTD App'd DRAFT Ref. SG/CR/BRs Date MAY 99 Job No. 39991-004-401	 DAMES & MOORE GROUP
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB014		PAGE 1 of 1	
	NUMBER	TYPE					START DATE: 07/04/99	DRILLING METHOD: HYDRAULIC PERCUSSIVE	FINISH DATE: 07/04/99	BOREHOLE DIAMETER: 130/80 mm
							DESCRIPTION	COMMENTS		
						0	CONCRETE (MADE GROUND)		0	
						0.5	Loose brown coarse SAND and fine to medium gravel (MADE GROUND)	Slight solvent odour	0.5	
						1.0	Medium dense grey fine to coarse sandy GRAVEL (MADE GROUND)	Yellow free product observed Strong solvent odour	1.0	
						1.5	Soft black slightly sandy CLAY (MADE GROUND)	Oily appearance	1.5	
						2.0	Loose grey to green-grey coarse SAND and fine gravel with slag fragments (MADE GROUND) Predominantly brown porous slag below 1.75m	Solvent odour Sheen on slag surfaces	2.0	
						2.5	Firm dark grey slightly gravelly CLAY	Wet Sheen on water Strong odour	2.5	
						3.0	Firm brown to orange-brown gravelly CLAY gravel horizons at 2.25 and 2.5m	Water seeps from gravel	3.0	
						3.5		Faint odour	3.5	
						4.0	clay becomes soft at 3.25m		4.0	
						4.5			4.5	
						5.0	clay becomes firm and dark brown-grey at 4.1m	Slight hydrocarbon odour	5.0	

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
1. All measurements in m below ground level (mbgl)	Disturbed Sample	Job Title	SOIL & GROUNDWATER INVESTIGATION
2. PID malfunctioning	Undisturbed Sample	Location	LLANDARCY REFINERY
3. Shallow well installed using 19mm HDPE pipe	* Headspace Analysis	Client	BP LLANDARCY LTD
4. Hole size telescoped to smaller diameter	† Down Borehole Analysis	App'd	DRAFT
	Groundwater Table	Ref.	SG/CR/BRs
	Perched Water Table	Date	MAY 99
		Job No.	39991-004-401
		DAMES & MOORE	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB015		PAGE 1 of 2	
	NUMBER	TYPE					START DATE: 30/3/99		DRILLING METHOD: HYDRAULIC PERCUSSIVE	
							FINISH DATE: 30/3/99		BOREHOLE DIAMETER: 130/80 mm	
							DRILLER: GEOTECHNICAL		SCREEN TYPE & DIAMETER: POLYPROPYLENE 50mm	
				LOGGED BY: SG APPR'D BY:		SCREEN SLOT SIZE: 1 mm				
					0		DESCRIPTION	COMMENTS		0
							CONCRETE(MADE GROUND)			
							Loose grey black silty GRAVEL (MADE GROUND)	Slight hydrocarbon odour		
					0.5		Loose green silty GRAVEL(MADE GROUND)			0.5
							Loose grey brown sandy GRAVEL (MADE GROUND)			
							Loose yellowish brown silty and sandy fine to medium GRAVEL (MADE GROUND)			
					1.0		Medium dense grey to black sub-angular medium GRAVEL with clinker fragments (MADE GROUND)	Oily appearance Moderate hydrocarbon odour		1.0
							large cobbles at 1.2m			
					1.5			Slight to moderate hydrocarbon odour		1.5
					2.0		Medium dense black clayey GRAVEL with some cobbles	Oil noted at 2.4 and 2.7m Damp		2.0
					2.5					2.5
					3.0		Medium dense grey-brown very gravelly and silty CLAY			3.0
							Firm grey-yellow-brown very gravelly (fine to medium) slightly silty sandy CLAY	Moderate hydrocarbon odour (mainly from gravel)		
					3.5					3.5
					4.0		Loose black-grey silty GRAVEL	Oily appearance		4.0
							Firm orange-brown gravelly CLAY with some grey patches	Slight hydrocarbon odour		
					4.5		Firm to stiff brown gravelly (fine to medium) CLAY with	Damp at 4.5m No odour		4.5
					5.0			Dry from 5m		5.0

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
1. All measurements in m below ground level (mbgl)		☒ Disturbed Sample ☐ Undisturbed Sample * Headspace Analysis † Down Borehole Analysis ▼ Groundwater Table ▽ Perched Water Table		Job Title SOIL & GROUNDWATER INVESTIGATION Location LLANDARCY REFINERY Client BP LLANDARCY LTD	
2. Hole size telescoped to smaller diameter with depth				App'd DRAFT Ref. SG/CR/BRS Date MAY 99 Job No. 39991-004-401	
3. Borehole collapsed to 4m				 DAMES & MOORE GROUP	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB015		PAGE 2 of 2	
	NUMBER	TYPE					START DATE: 30/3/99		DRILLING METHOD: HYDRAULIC PERCUSSIVE	
							FINISH DATE: 30/3/99		BOREHOLE DIAMETER: 130/80 mm	
							DRILLER: GEOTECHNICAL		SCREEN TYPE & DIAMETER: POLYPROPYLENE 50mm	
							LOGGED BY: SG APPR'D BY:		SCREEN SLOT SIZE: 1 mm	
						DESCRIPTION		COMMENTS		
					5	Firm to stiff brown gravelly (fine to medium) CLAY with occasional cobbles		5		
DSB015 6.0m					5.5			5.5		
					6.0			6.0		
					6.5			6.5		
					7.0			7.0		
					7.5			7.5		
					8.0			8.0		
					8.5			8.5		
					9.0			9.0		
					9.5			9.5		
					10.0			10.0		

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
1. All measurements in m below ground level (mbgl)		 Disturbed Sample		Job Title SOIL & GROUNDWATER INVESTIGATION	
2. Hole size telescoped to smaller diameter with depth		 Undisturbed Sample		Location LLANDARCY REFINERY	
3. Borehole collapsed to 4m		* Headspace Analysis		Client BP LLANDARCY LTD	
		† Down Borehole Analysis		App'd DRAFT	
		 Groundwater Table		Ref. SG/CR/BR5	
		 Perched Water Table		Date MAY 99	
				Job No. 39991-004-401	
				 DAMES & MOORE	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB016		PAGE 1 of 2	
	NUMBER	TYPE					START DATE: 30/3/99		DRILLING METHOD: HYDRAULIC PERCUSSIVE	
							FINISH DATE: 30/3/99		BOREHOLE DIAMETER: 130/80 mm	
							DRILLER: GEOTECHNICAL		SCREEN TYPE & DIAMETER: POLYPROPYLENE 50mm	
		LOGGED BY: SG APPR'D BY:		SCREEN SLOT SIZE: 1 mm						
							DESCRIPTION	COMMENTS		
						0	CONCRETE (MADE GROUND)			0
						0.5	Loose brown slightly silty SAND with gravel (MADE GROUND)			0.5
						1.0	Loose medium dense cobble sized BRICK fragments with sandstone fragments (MADE GROUND) becoming gravelly at 0.8m	Oily sheen at 0.9m water ingress at 0.8m black oily water at 1m		1.0
						1.5	Reinforced CONCRETE (MADE GROUND)			
						2.0	Loose red and black fine to coarse GRAVEL with ash (MADE GROUND)	Oily sheen on gravel moderate to strong odour Moderate to strong hydrocarbon odour (stronger within grey streaks)		2.0
						2.5	Firm orange-brown-grey slightly sandy, gravelly silty CLAY with grey streaking	Damp Sweet hydrocarbon odour from gravel/clay interface with black staining Odour decreases with depth		2.5
						3.0	Firm to stiff brown gravelly (fine to medium, sub-rounded to sub-angular) CLAY	Slight hydrocarbon odour		3.0
						3.5	Loose brown SAND	dry		3.5
						4.0	Firm brown sandy clayey SILT with some gravel	Damp No odour		4.0
						4.5	Loose orange slightly gravelly and silty SAND	Wet No odour		4.5
						5.0	Firm orange to orange-brown sandy gravelly and slightly clayey SILT	Damp No odour		5.0
							Firm grey gravelly clayey and sandy SILT with occasional cobbles	No odour Damp		
							predominantly sandy from 4.9 to 5m			

LOCATION / NOTES:

- All measurements in m below ground level (mbgl)
- Cased to 2m during drilling and installation
- Hole size telescoped to smaller diameter with depth
- Borehole collapsed to 5.5m

LEGEND

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

BOREHOLE LOG

Job Title **SOIL & GROUNDWATER INVESTIGATION**

Location **LLANDARCY REFINERY**

Client **BP LLANDARCY LTD**

App'd **DRAFT**

Ref. **SG/CR/BRS**

Date **MAY 99**

Job No. **39991-004-401**

DAMES & MOORE

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB016		PAGE 2 of 2	
	NUMBER	TYPE					START DATE: 30/3/99		DRILLING METHOD: HYDRAULIC PERCUSSIVE	
							FINISH DATE: 30/3/99		BOREHOLE DIAMETER: 130/80 mm	
							DRILLER: GEOTECHNICAL		SCREEN TYPE & DIAMETER: POLYPROPYLENE 50mm	
LOGGED BY: SG		APPR'D BY:		SCREEN SLOT SIZE: 1 mm						
						DESCRIPTION		COMMENTS		
						Firm grey gravelly clayey and sandy SILT with occasional cobbles		No odour Damp No odour		5
						Stiff to very stiff grey slightly gravelly CLAY				5.5
										6.0
										6.5
										7.0
										7.5
										8.0
										8.5
										9.0
										9.5
										10.0
LOCATION / NOTES: 1. All measurements in m below ground level (mbgl) 2. Hole size telescoped to smaller diameter with depth 3. Borehole collapsed to 5.5m						LEGEND Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		BOREHOLE LOG Job Title SOIL & GROUNDWATER INVESTIGATION Location LLANDARCY REFINERY Client BP LLANDARCY LTD App'd DRAFT Ref. SG/CR/BRS Date MAY 99 Job No. 39991-004-401		
										DAMES & MOORE GROUP

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB017S1		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 17/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : LT		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
					0.0	Concrete with liner at base. MADE GROUND	Moderate HC odour	0.0		
					0.5	Loose gravel of slag-like material and clinker. MADE GROUND		0.5		
			*153		1.0	Firm, dark brown (black staining in places) sandy SILT with frequent medium to coarse gravel of sst and slag. Occasional cobbles.	Becoming damp and softer	1.0		
			*52.7		1.5	Soft brown/grey slightly sandy SILT with occasional gravelly horizons and rounded cobbles.		1.5		
			*57.1		2.0			2.0		
					2.5	Firm, brown, very sandy SILT with occasional coarse, sub-rounded gravel.	Weak HC odour	2.5		
			*27.5		3.0	Sand content decreasing after 2.5m		3.0		
			*23.4		3.5		Dry	3.5		
			*19.4		4.0	Soft, brown/grey silty SAND	Very weak to no odour	4.0		
			*25.8		4.5	Firm, dark grey SILT with occasional rounded cobbles		4.5		
				5.0	Large COBBLE (cored) of hard, grey sandstone with soft, very sandy silt.	No odour	5.0			
		*200			Firm, gravelly SILT with fine to coarse sub-angular gravel					
					Soft, grey-brown, fine to medium silty SAND					
		*120			Firm, brown, sandy SILT with occasional orange mottling and fine, sub-rounded gravel					

LOCATION / NOTES:

NVO = No visual or olfactory evidence

LEGEND

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

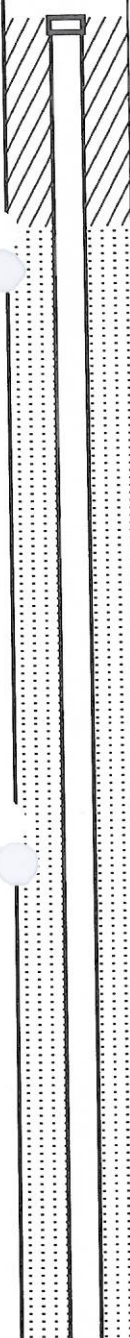
BOREHOLE LOG

Job Title: DiMe Investigation

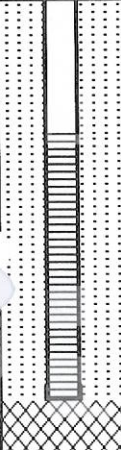
Location: BP Llandarcy Refinery

Client: BP Oil Llandarcy Refinery

App'd:	Date: 18/09/2002
Drawn : SS	Ref:
Scale: As scale	Job No: 39991-022
Drg. Size: A4	BOREHOLE LOG

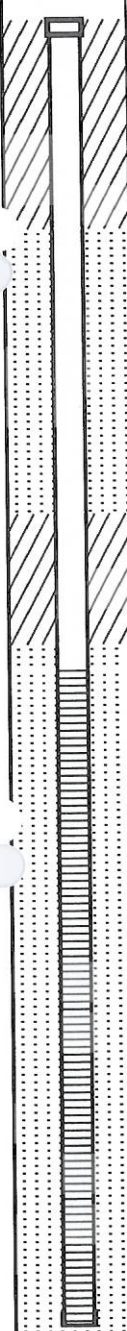
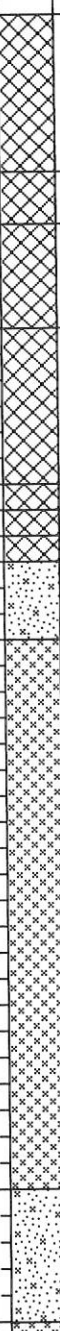
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB017S2		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 17/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : LT		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
	DSB017 3.8m						Concrete with liner at base. MADE GROUND	Moderate HC odour	0.0	
							Loose gravel of slag-like material and clinker. MADE GROUND		0.5	
							Firm, dark brown (black staining in places) sandy SILT with frequent medium to coarse gravel of sst and slag. Occasional cobbles.	Becoming damp and softer	1.0	
							Soft brown/grey slightly sandy SILT with occasional gravelly horizons and rounded cobbles.		1.5	
									2.0	
							Firm, brown, very sandy SILT with occasional coarse, sub-rounded gravel.	Weak HC odour	2.5	
							Sand content decreasing after 2.5m		3.0	
									3.5	
							Soft, brown/grey silty SAND	Very weak to no odour	3.5	
							Firm, dark grey SILT with occasional rounded cobbles		4.0	
							Large COBBLE (cored) of hard, grey sandstone with soft, very sandy silt.	No odour	4.5	
							Firm, gravelly SILT with fine to coarse sub-angular gravel		5.0	
Soft, grey-brown, fine to medium silty SAND										
Firm, brown, sandy SILT with occasional orange mottling and fine, sub-rounded gravel										

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence		 Disturbed Sample	 Undisturbed Sample	Job Title: DiMe Investigation	
		 Headspace Analysis	 Down Borehole Analysis	Location: BP Llandarcy Refinery	
		 Groundwater Table	 Perched Water Table	Client: BP Oil Llandarcy Refinery	
				App'd:	Date: 18/09/2002
				Drawn : SS	Ref:
				Scale: As scale	Job No: 39991-022
				Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB017S2		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 17/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : LT		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DSB017		*10			Firm, orange/brown, sandy SILT with occasional lenses of fine sand and red/orange staining. Horizons of cobbles and coarse, rounded, medium gravel in a silty sand matrix. Borehole terminated at 6.7m, collapsed to 6.5m		COMMENTS Small recovery		
						End of Borehole		No odour		
					5.5				5.5	
					6.0				6.0	
					6.5				6.5	
					7.0				7.0	
					7.5				7.5	
					8.0				8.0	
					8.5				8.5	
					9.0				9.0	
					9.5				9.5	
					10.0				10.0	

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
			App'd: _____ Date: 18/09/2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG

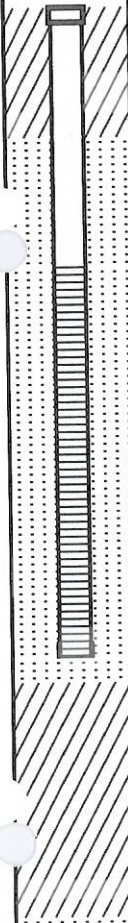
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB019S1		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 18/01/02		DRILLING METHODS: Hydraulic Percussive	
							DRILLER: Geotechnical Engineering		BOREHOLE DIAMETER: 125mm	
							LOGGED BY: LT		SCREEN TYPE & DIAM: HDPE 50mm	
		CHECKED BY:		SCREEN SLOT SIZE: 1mm						
					0.0		DESCRIPTION	COMMENTS	0.0	
					0.5		Loose gravel of slag, clinker and brick. MADE GROUND	Weak HC odour		
					1.0		Concrete with liner at base. MADE GROUND	Oily on liner	0.5	
					1.5		Loose GRAVEL of slag and clinker, some stained green. Also, solid lumps of slag and clinker in a fine, loose sand matrix. MADE GROUND	HC odour	1.0	
					2.0		Loose, coarse, sub-rounded COBBLES and coarse GRAVEL coated in black oily grease. MADE GROUND	Strong HC odour	1.5	
					2.5		Concrete. MADE GROUND		2.0	
					3.0		Solid lumps of slag and clinker. MADE GROUND	Cased to 2.0m		
					3.5		Sandstone COBBLES. (Cored through). MADE GROUND			
					4.0		Firm, orange-brown, sandy SILT with angular cobbles.	Strong solvent odour. Irrescent sheen on fracture faces. Solvent odour	2.5	
					4.5		Firm, brown, slightly sandy SILT with gravelly horizons.		3.0	
				5.0		Becoming more sandy at 3.2m		3.5		
				5.5		Sand decreasing at 3.4m		4.0		
				6.0				4.5		
				6.5				5.0		
				7.0				5.5		
				7.5				6.0		
				8.0				6.5		
				8.5				7.0		
				9.0				7.5		
				9.5				8.0		
				10.0				8.5		
				10.5				9.0		
				11.0				9.5		
				11.5				10.0		
				12.0				10.5		
				12.5				11.0		
				13.0				11.5		
				13.5				12.0		
				14.0				12.5		
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				91.0				89.5		
				91.5				90.0		
				92.0				90.5		
				92.5				91.0		
				93.0				91.5		
				93.5				92.0		
				94.0				92.5		
				94.5				93.0		
				95.0</						

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB019S2		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 18/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : LT		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
	DSB019	3.3m	*0.0		0.0	Loose gravel of slag, clinker and brick. MADE GROUND	Weak HC odour	0.0		
					0.5	Concrete with liner at base. MADE GROUND	Oily on liner	0.5		
					1.0	Loose GRAVEL of slag and clinker, some stained green. Also, solid lumps of slag and clinker in a fine, loose sand matrix. MADE GROUND	HC odour	1.0		
					1.5	Loose, coarse, sub-rounded COBBLES and coarse GRAVEL coated in black oily grease. MADE GROUND	Strong HC odour	1.5		
			*271		2.0	Concrete. MADE GROUND	Cased to 2.0m		2.0	
					2.0	Solid lumps of slag and clinker. MADE GROUND				
					2.5	Sandstone COBBLES. (Cored through). MADE GROUND				
			*409		2.5	Firm, orange-brown, sandy SILT with angular cobbles.	Strong solvent odour. Irridescent sheen on fracture faces. Solvent odour		2.5	
					3.0	Firm, brown, slightly sandy SILT with gravelly horizons.				
			*9999		3.5	Becoming more sandy at 3.2m	Cased to 3.6m		3.5	
					4.0	Sand decreasing at 3.4m				
					4.5	Soft, very sandy SILT with occasional gravel and cobbles.	Cased to 4.5m		4.5	
					5.0		Sheen on returns 5.0-5.5m		5.0	

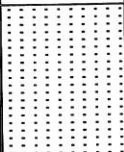
LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence			Disturbed Sample	Job Title: DiMe Investigation	
			Undisturbed Sample	Location: BP Llandarcy Refinery	
			Headspace Analysis	Client: BP Oil Llandarcy Refinery	
			Down Borehole Analysis		
			Groundwater Table		
			Perched Water Table		
				App'd:	Date: 19/09/2002
				Drawn : SS	Ref:
				Scale: As scale	Job No: 39991-022
				Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB019S2		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 18/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : LT		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DSB019 6.5m				5.5	Firm, slightly sandy SILT	COMMENTS	Weak to mod odour	5.5	
					6.0	Loose, sandy GRAVEL			6.0	
					6.5	Firm, orange-brown, slightly sandy SILT with frequent gravel.			6.5	
					7.0	End of Borehole			7.0	
					7.5				7.5	
					8.0				8.0	
					8.5				8.5	
					9.0				9.0	
					9.5				9.5	
					10.0				10.0	

LOCATION / NOTES: NVO = No visual or olfactory evidence		LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		BOREHOLE LOG Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 				App'd: _____ Date: 19/09/2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG	
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB020S1		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 16/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
	DSB020 2.2m		*28.8 *58.3		0.0	Concrete. MADE GROUND	Wet. Strong HC odour.	0.0		
					0.5	Loose, angular, med-coarse GRAVEL with sand. MADE GROUND		0.5		
					1.0	Dense, grey, very silty sandy angular GRAVEL with frequent angular cobbles. MADE GROUND		1.0		
					1.5	Loose to dense, fine to coarse, sandy GRAVEL of slag with sandstone cobbles. MADE GROUND		1.5		
					2.0			2.0		
	DSB020 4.3m		*36.7 *9.1 *74.9 *47.8 *1889		2.5	Sandstone COBBLE	Strong solvent and HC odour. Staining	2.5		
					3.0	Soft to firm, grey sandy SILT with coarse rounded gravel and angular gravel. 2.3-2.5m.		3.0		
					3.5	Grey brown from 3.3m		3.5		
					4.0			4.0		
					4.5			4.5		
				5.0	Loose, grey brown, silty SAND with frequent rounded gravel	Wet. Strong odour 4.0-4.3m	5.0			

LOCATION / NOTES:		LEGEND		BOREHOLE LOG		
NVO = No visual or olfactory evidence		 Disturbed Sample	 Undisturbed Sample	Job Title: DiMe Investigation		
		 Headspace Analysis	 Down Borehole Analysis	Location: BP Llandarcy Refinery		
		 Groundwater Table	 Perched Water Table	Client: BP Oil Llandarcy Refinery		
					App'd: _____	Date: 18/09/2002
					Drawn : SS	Ref: _____
					Scale: As scale	Job No: 39991-022
					Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB020S1		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 16/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
 	DSB020		*393		5.5	Loose, grey-brown, slightly silty SAND.	COMMENTS Increasing odour from Wet. Moderate solvent odour No odour. Wet		5.5	
	5.8m		*38.8		6.0	Hard sandstone COBBLES and GRAVELS			6.0	
			*189		6.5	Firm, grey-brown sandy SILT with occasional gravel			6.5	
	DSB020		*48.0		7.0	End of Borehole			7.0	
					7.5				7.5	
					8.0				8.0	
					8.5				8.5	
					9.0				9.0	
					9.5				9.5	
					10.0				10.0	

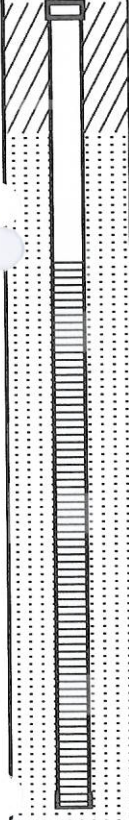
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 	
		App'd:	Date: 18/09/2002
		Drawn : SS	Ref:
		Scale: As scale	Job No: 39991-022
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB020S2		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 16/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DSB020 2.2m				0.0	Concrete. MADE GROUND	DESCRIPTION COMMENTS Wet. Strong HC odour. Strong solvent odour at 1.3m Solvent odour	0.0		
					0.5	Loose, angular, med-coarse GRAVEL with sand. MADE GROUND		0.5		
					1.0	Dense, grey, very silty sandy angular GRAVEL with frequent angular cobbles. MADE GROUND		1.0		
					1.5	Loose to dense, fine to coarse, sandy GRAVEL of slag with sandstone cobbles. MADE GROUND		1.5		
					2.0			2.0		
					2.5	Sandstone COBBLE		2.5		
					3.0	Soft to firm, grey sandy SILT with coarse rounded gravel and angular gravel. 2.3-2.5m. Grey brown from 3.3m		3.0		
					3.5			3.5		
DSB020 4.3m					4.0	Loose, grey brown, silty SAND with frequent rounded gravel	Strong solvent and HC odour. Staining Wet. Strong odour 4.0-4.3m	4.0		
					4.5			4.5		
					5.0			5.0		

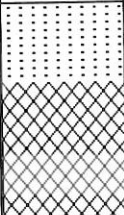
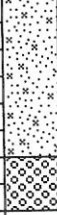
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 	
		App'd:	Date: 18/09/2002
		Drawn : SS	Ref:
		Scale: As scale	Job No: 39991-022
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB020S2		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 16/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DSB020 5.8m		*393		5.5	Loose, grey-brown, slightly silty SAND.	Increasing odour from Wet. Moderate solvent odour	5.5		
			*38.8		6.0	Hard sandstone COBBLES and GRAVELS			6.0	
			*189		6.5	Firm, grey-brown sandy SILT with occasional gravel				6.5
	DSB020 6.7m		*48.0		7.0	End of Borehole	No odour. Wet	7.0		
					7.5			7.5		
					8.0			8.0		
					8.5			8.5		
					9.0			9.0		
					9.5			9.5		
					10.0			10.0		

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
			App'd: _____ Date: 18/09/2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB021S1		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
DESCRIPTION							COMMENTS			
					0.0	Very loose, medium brown SAND, stained grey from 0.5m. MADE GROUND	Slight odour from surface	0.0		
			*24.5		0.5		Very strong solvent odour. Wet	0.5		
			*559		1.0	Cobbles with slag and clinker. MADE GROUND	Strong solvent odour	1.0		
			*540		2.0	Loose to dense, fine to coarse MADE GROUND of clinker.		2.0		
			*546		2.5	Soft to firm, brown (stained grey) sandy SILT with medium angular gravel. With loose cobbles from 2.5m	Damp-wet. Solvent odour	2.5		
		*434		3.5	Soft, brown, very sandy SILT with frequent med-coarse rounded gravel and fine angular gravel.	Wet. Slight odour.	3.5			
		*1049		4.5	Very firm from 4.6m	Odour decreases with depth	4.5			
				5.0				5.0		

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 	
		App'd:	Date: 18/09/2002
		Drawn : SS	Ref:
		Scale: As scale	Job No: 39991-022
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB021S1		PAGE 2 of 2		
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive		
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm		
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm		
							CHECKED BY :		SCREEN SLOT SIZE: 1mm		
			*419						COMMENTS		
						Loose, silty, fine-med rounded and sub-rounded GRAVEL					
					5.5						5.5
					6.0			End of Borehole			6.0
					6.5						6.5
					7.0						7.0
					7.5						7.5
					8.0						8.0
					8.5						8.5
					9.0						9.0
					9.5						9.5
					10.0						10.0

LOCATION / NOTES:	LEGEND	BOREHOLE LOG									
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery									
			<table border="1"> <tr> <td>App'd:</td> <td>Date: 18/09/2002</td> </tr> <tr> <td>Drawn : SS</td> <td>Ref:</td> </tr> <tr> <td>Scale: As scale</td> <td>Job No: 39991-022</td> </tr> <tr> <td>Drg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table>	App'd:	Date: 18/09/2002	Drawn : SS	Ref:	Scale: As scale	Job No: 39991-022	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: 18/09/2002										
Drawn : SS	Ref:										
Scale: As scale	Job No: 39991-022										
Drg. Size: A4	BOREHOLE LOG										

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB021S2		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
						DESCRIPTION	COMMENTS			
						Very loose, medium brown SAND, stained grey from 0.5m. MADE GROUND	Slight odour from surface	0.0		
							Very strong solvent odour. Wet	0.5		
						Cobbles with slag and clinker. MADE GROUND	Strong solvent odour	1.0		
						Loose to dense, fine to coarse MADE GROUND of clinker.		1.5		
								2.0		
						Soft to firm, brown (stained grey) sandy SILT with medium angular gravel.	Damp-wet. Solvent odour	2.5		
						With loose cobbles from 2.5m		3.0		
								3.5		
						Soft, brown, very sandy SILT with frequent med-coarse rounded gravel and fine angular gravel.	Wet. Slight odour.	4.0		
								4.5		
						Very firm from 4.6m	Odour decreases with depth	4.5		
								5.0		

LOCATION / NOTES: NVO = No visual or olfactory evidence		LEGEND Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		BOREHOLE LOG Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery			
				App'd:	Date: 18/09/2002		
				Drawn : SS	Ref:		
				Scale: As scale	Job No: 39991-022		
				Drg. Size: A4	BOREHOLE LOG		