

Appendix A – Photographs



1) Pipe gantry in woodland area



2) Looking east into woodland



3) Looking east upslope from tip area



4) Looking north across flooded areas



5) Looking north east across flooded area towards woodland



6) Looking east across scrubland



7) Looking south into dense woodland from Tip access road



8) Looking east towards western margin



9) Taken from stockpile looking north along main site road



10) Taken from stockpile looking east across main road to woodland on upper terrace



11) Taken from stockpile looking south towards woodland on slope towards tip area



12) Looking north at woodland on slope beneath upper terrace



13) Woodland on upper terrace slope



14) Looking north across former import stockpile area



15) Looking north across former stockpile area



16) Looking south across stockpile area



17) Looking north across stockpile area



18) Track road on upper terrace slope looking south



19) Looking north along former service road



20) Looking east from service road up towards former pipe route



21) Brick structure located on the service road



22) Pipe outfall located on service road



23) Pipe work supports upslope of service road (blocked by trees)



24) View from upper terrace of woodland



25) Route of former pipeline view from upper terrace



26) Woodland at top of slope on upper terrace



27) Evidence of pipework at the crest of slope on upper terrace



28) Looking north towards tip slope woodland



29) View across upper terrace

Appendix B – Historical Logs

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP016		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 2/12/03		DRILLING METHODS: JCB	
							DRILLER: JCB - John		BOREHOLE DIAMETER: -	
							LOGGED BY: JG		SCREEN TYPE & DIAM: -	
							CHECKED BY: LT		SCREEN SLOT SIZE: -	
							DESCRIPTION	COMMENTS	S,V	
	WSTP016 - 0.5m (S,L, 2xP)		*1.4		0.0		Loose, dark grey silty fine sand. Frequent brick fragments and subrounded to rounded gravel to boulder clasts and roots. (MADE GROUND)	Damp	0, 2	
							0.5	Soft to firm, orange / red clayey silt with frequent gravel to small boulders (up to 50cm across) (MADE GROUND)	Dry	0, 0
							1.0	Increasing sand (and with a slab of concrete to 1 side)		0, 0
							1.5	Soft to firm grey SILT with frequent gravel to small boulders.		0, 0
							2.0		0, 0	
	WSTP016 - 2.5m (S,L)		*2.7		2.5		Trial pit terminated at 2.5m due to refusal on bedrock.		0, 0	
					3.0					
					3.5					
					4.0					
					4.5					
					5.0					

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination S,V = Contamination Observations S - Odour score (0-5) V - Visual score (0-5)	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	Job Title: BP Llandarcy Whole Site Investigation Location: BP Llandarcy Refinery Client: BPWDA 	
		App'd: JG	Date: January 2004
		Drawn: JG	Ref:
		Scale: As scale	Job No: 39991-044-785
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WSTP018		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 12/11/03		DRILLING METHODS : JCB	
							DRILLER : JCB		BOREHOLE DIAMETER : -	
							LOGGED BY : JW		SCREEN TYPE & DIAM: -	
							CHECKED BY : SG		SCREEN SLOT SIZE: -	
DESCRIPTION		COMMENTS	S,V							
	WSTP018 - 0.5m(S,L, 2xP)		*553		0.0		Very soft to softt, brown slightly fine sandy silt (reworked) with some fine to coarse angular gravel and some rootlets.(MADE GROUND)	Slight heavy hydrocarbon odour and pockets of black staining Clay pipe at 1.0m	2,2	
					0.5					
					1.0					
					1.5					
	WSTP018 - 3.6m (S,L)		*709		2.0		Soft grey brown fine to medium sandy SILT with much fine to coarse subrounded gravel. With boulders and cobbles from 1.5m	Moderate light hydrocarbon odour and grey discoloration and rare black staining Strong light hydrocarbon odour and slight discoloration	3,2 4,2	
					2.5					
					3.0					
					3.5					
	WSTP018 - 3.6m (S,L)		*931		4.0		Medium dense grey brown silty fine toi medium SAND with much fine to coarse sub rounded gravel, cobbles and boulders. Frequent boulders from 3.0m.	Strong light hydrocarbon odour and slight discoloration Strong light hydrocarbon odour and slight discoloration	4,2 4,2	
					4.5					
					5.0					
LOCATION / NOTES:						LEGEND		BOREHOLE LOG		
NVO = No visual or olfactory evidence of contamination S,V = Contamination Observations S - Odour score (0-5) V - Visual score (0-5)						Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		Job Title: BP Llandarcy Whole Site Investigation		
								Location: BP Llandarcy Refinery		
								Client: BP/WDA		
								App'd: _____ Date: January 2004		
								Drawn : JW _____ Ref: _____		
								Scale: As scale Job No: 39991-044-785		
								Drg. Size: A4 BOREHOLE LOG		