



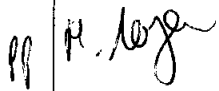

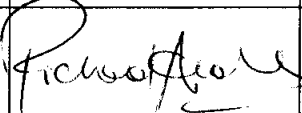
**Borehole Installation Works
Construction Quality
Assurance Report - Dix Pit
Landfill
Waste Recycling Group Ltd.**

31 May 2005
Final

Issue No 1
R653/44358852-1942/IH/JW/Rev0

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 Waste Recycling Group Ltd.
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Client Company Name: Waste Recycling Group Ltd.
Issued By: 7th Floor, Alpha Tower,
 Suffolk Street
 Birmingham
 B1 1YQ

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	Name	Signature	Date	Position
Prepared by	Jon White		31 May 2005	Staff Environmental Scientist
Checked by	Ian Harper		31 May 2005	Senior Hydrogeologist
Approved by	Richard Andrews		31 May 2005	Managing Principal

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Issue No	Date	Details of Revisions
1	9 May 2005	Original issue
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1 INTRODUCTION

1.1 General Introduction

This report presents the finding of the installation of groundwater and/or gas monitoring boreholes at the Waste Recycling Group Ltd. facility located in Stanton Harcourt, Oxfordshire, UK (hereafter referred to as the 'site'). The works detailed in this report were undertaken by URS Corporation Ltd (URS) in accordance with URS' proposal P0697Rev1, dated 11 February 2005 and authorised on 14 February 2005 by Mr. Mark Cheetham of Waste Recycling Group Ltd. (WRG).

The overall objective of the work was to install groundwater and gas boreholes, as required of WRG's Pollution Prevention and Control (PPC) permit for the site. The scope of work as outlined in WRG's letter of 3 December 2004 (the Construction Quality Assurance (CQA) Plan), had been agreed between WRG and the Environment Agency. WRG required URS to manage and appropriately oversee the drilling of boreholes in line with the CQA Plan, and to produced this factual report (CQA Report).

The site location is presented as Figure 1 and the borehole layout is presented in Figure 2.

1.2 Key Objectives

The key objectives of this project were as follows:

- management of the drilling contractor;
- liason with third parties, such as utility companies, regarding access to each drilling location;
- liason with WRG's site staff on Health and Safety matters;
- provision of appropriate guidance of the drilling contractor to provide confirmation that the boreholes are installed in accordance with the proposed design specification and to note significant variations from the specification;
- liason with WRG's Environment Manager regarding variations from the proposed design specification; and
- production of this factual summary report of the investigation.

1.3 Report Structure

This report has been structured as follows:

- Section 1: general introduction to the project;
- Section 2: presents the general scope of work;

- Section 3: presents a general overview of geology encountered; and
- Section 4: comments on compliance with proposed specification.

2 SCOPE OF WORK

The scope of works was designed to provide sufficient data to meet WRG's key objectives as described in Section 1 and has been subdivided into four key tasks:

- Task 1 - Preliminary Works;
- Task 2 - Drilling Works;
- Task 3 - Topographic Survey (undertaken by WRG); and
- Task 4 - Reporting.

These tasks are described in more detail in the subsections below.

2.1 Task 1 – Preliminary Works

Prior to commencement of site works, the following preliminary works were undertaken:

2.1.1 Project Health and Safety Plan

A Health and Safety Plan was produced for the investigation at the site. The plan included details of appropriate working procedures and emergency contact details.

2.1.2 Review of Utility Plans and Confirmation of Borehole Locations

Utility plans were reviewed to assess the location of potential underground services in the investigation areas. Utilities data was obtained from a commercial provider of this information.

Prior to commencing site works, the location of each borehole was assessed using a geographically-referenced CAD drawing of each site, provided by WRG site management. A grid reference for each location (accurate to 10m) was obtained from these plans to assist in the more accurate placement of boreholes on the site using a hand-held Global Position System (GPS) device.

All borehole locations were scanned with a cable detection tool prior to drilling the borings.

2.2 Task 2 – Drilling Works

Site works were undertaken in general accordance with the requirements of *BS 5930: 1999 – Code of Practice for Site Investigations*.

The investigation comprised the drilling of 16 boreholes at the Dix Pit site. It should be noted that 19 boreholes were originally planned to be installed, however due to ownership, access and site traffic issues, some locations could not be drilled (see Section 4 for further details). The general approach to the site works is summarised below:

- following underground utilities clearance at each location, the boreholes were drilled using a cable tool percussion rig. Temporary casing was used to reduce the potential for collapse of the borehole as the drilling went through the shallow unconsolidated ground;
- each borehole was drilled at a diameter of 150mm to a depths of at least 1m into the clay bedrock;
- each borehole was installed with 50mm uPVC casing for the gas and groundwater wells, which had 1mm slots and a 250µm geotextile wrap (gas monitoring only wells did not have geotextile wrap). One metre of plain casing was installed at the base of each groundwater monitoring well to act as a silt trap, with at least one metre of plain casing at the top of each of the gas or groundwater wells. The annulus was completed with 2mm to 5mm non-calcareous washed sand/gravel pack, with a 1m bentonite seal and concrete to the surface;
- the surface installation of each borehole was completed with an airtight bung to the internal casing, with an appropriate gas tap. A lockable galvanised steel cover was concreted into place for security; and
- following installation, each borehole was developed by airlifting of approximately 10 well volumes or until fines-free water was recovered.

A URS engineer was present on site to observe the drilling and installation of some of the boreholes to confirm the overall validity of the drillers logs. The URS engineer was generally present on site on alternate days, depending on drilling progress.

2.3 Task 3 – Topographic Surveying

A topographic survey of the borehole locations was undertaken by WRG staff.

2.4 Task 4 – Reporting

The findings of the intrusive works are presented in this summary report.

3 GENERAL OVERVIEW OF GROUND CONDITIONS ENCOUNTERED

This section provides a summary of the ground conditions encountered during drilling works. Borehole logs for the investigation are provided in Appendix A, with general ground conditions and well installation details presented in Table 1.

Dix Pit landfill is situated on relatively level ground in the valley of the River Thames, near the village of Stanton Harcourt. The site is located on Quaternary River Terrace sands and gravels, overlying Upper Jurassic Oxford Clay. WRG has indicated that the Terrace deposits are between 5m and 7m thick in the area, whilst the Oxford Clay extends to at least 25m beneath the site.

A summary of the ground conditions encountered is detailed below.

Made Ground

Made ground was encountered at the majority of borehole locations to depths of between 0.8 and 6.3mBGL (metres below ground level). This material generally comprised re-worked natural deposits consisting of sandy gravel clay. Made ground at some locations also included brick gravel and boulder-sized concrete blocks.

Alluvial Deposits

The majority of boreholes drilled at the site encountered River Terrace deposits, which typically comprised light brown, medium dense fine to coarse sand and fine to coarse rounded and sub-rounded gravel, occasionally silty and clayey, and consolidated in places. These deposits were encountered at depths of between 0.8 and 5.3mBGL and were up to 4.5m thick.

Oxford Clay

Oxford Clay was identified in all locations, at depths of between 3.8 and 7.4mBGL and generally comprised firm to stiff dark grey clay.

Water Strikes

Water strikes were encountered during drilling at between approximately 3.6 to 6.3mBGL, generally within the terrace deposits. A dip round undertaken on 8 April 2005 indicated that most water levels were typically 1m to 2.8m above the levels of the original water strikes.

4 COMPLIANCE WITH PROPOSED SPECIFICATION

All boreholes drilled were compliant with the CQA Report (see Table 1), with the exception of boreholes GBH23, G24 and GBH37.

It was not possible to drill at the proposed locations of boreholes GBH23 and G24 along the northern site boundary due to property ownership issues and the limited access to these areas on WRG owned land.

GBH37 was not drilled due to the presence of the operational limestone and cement works in the vicinity of the proposed borehole location. Site management stated that a well in this area would be destroyed by regular heavy traffic movements.

The total depth of the boreholes varied from the initial proposed scope of works agreed with the Environment Agency, as the depth to the Oxford Clay varied across the site. Therefore, the URS site engineer had to modify the total depths of the boreholes to comply with the requirement to drill 1 metre into the Oxford Clay, keeping the locations compliant with the CQA Plan.

Borehole logs summarising the details of borehole observations are presented in Appendix A.

-oOo-

URS would like to thank Waste Recycling Group Ltd. for the opportunity to work on this project. We trust that the above information meets your requirements. Should there be any questions on the proposal contents or any other matter, then please do not hesitate to contact the undersigned.

Yours faithfully,
for URS Corporation Limited

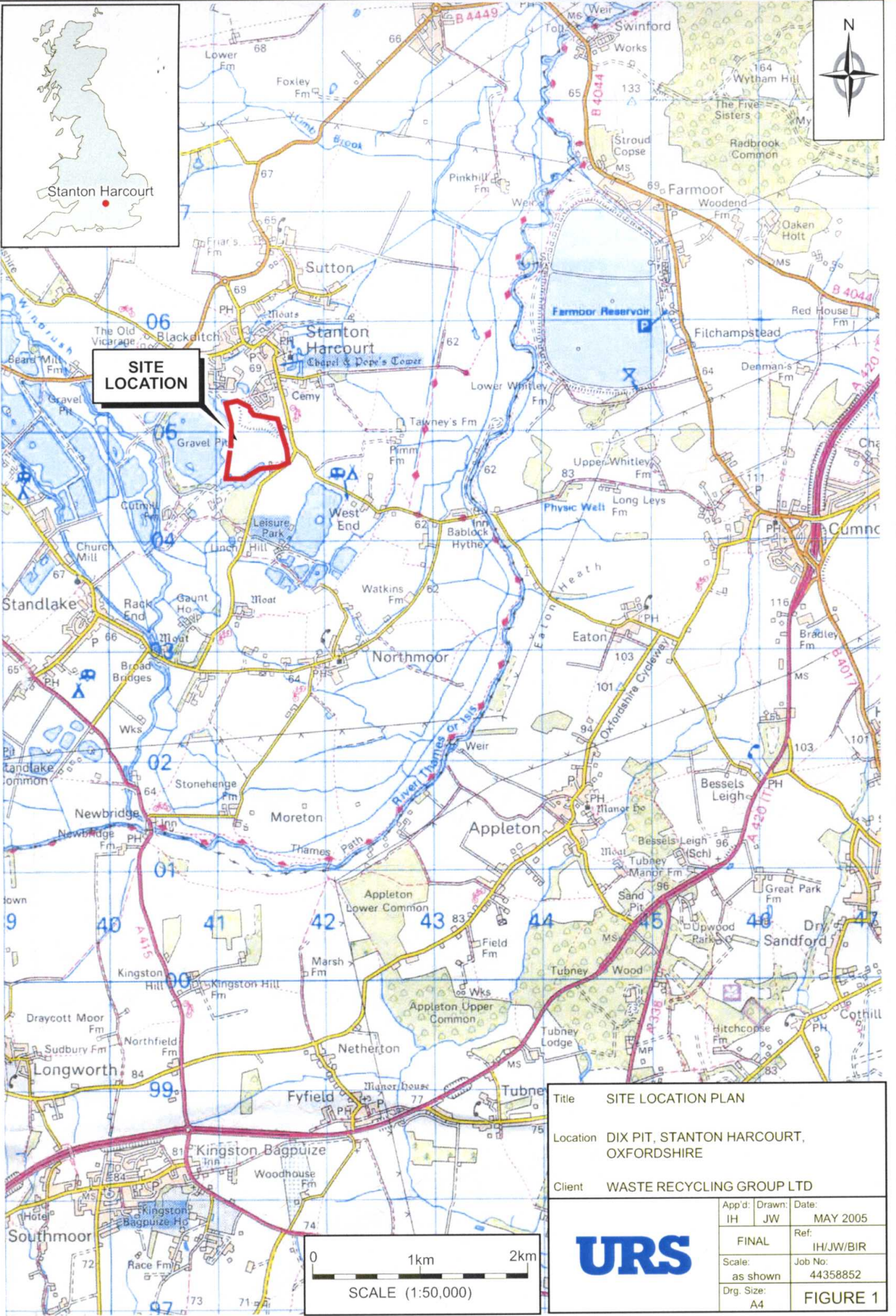


Jonathan White
Project Manager



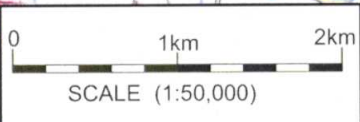
Ian Harper
Project Director

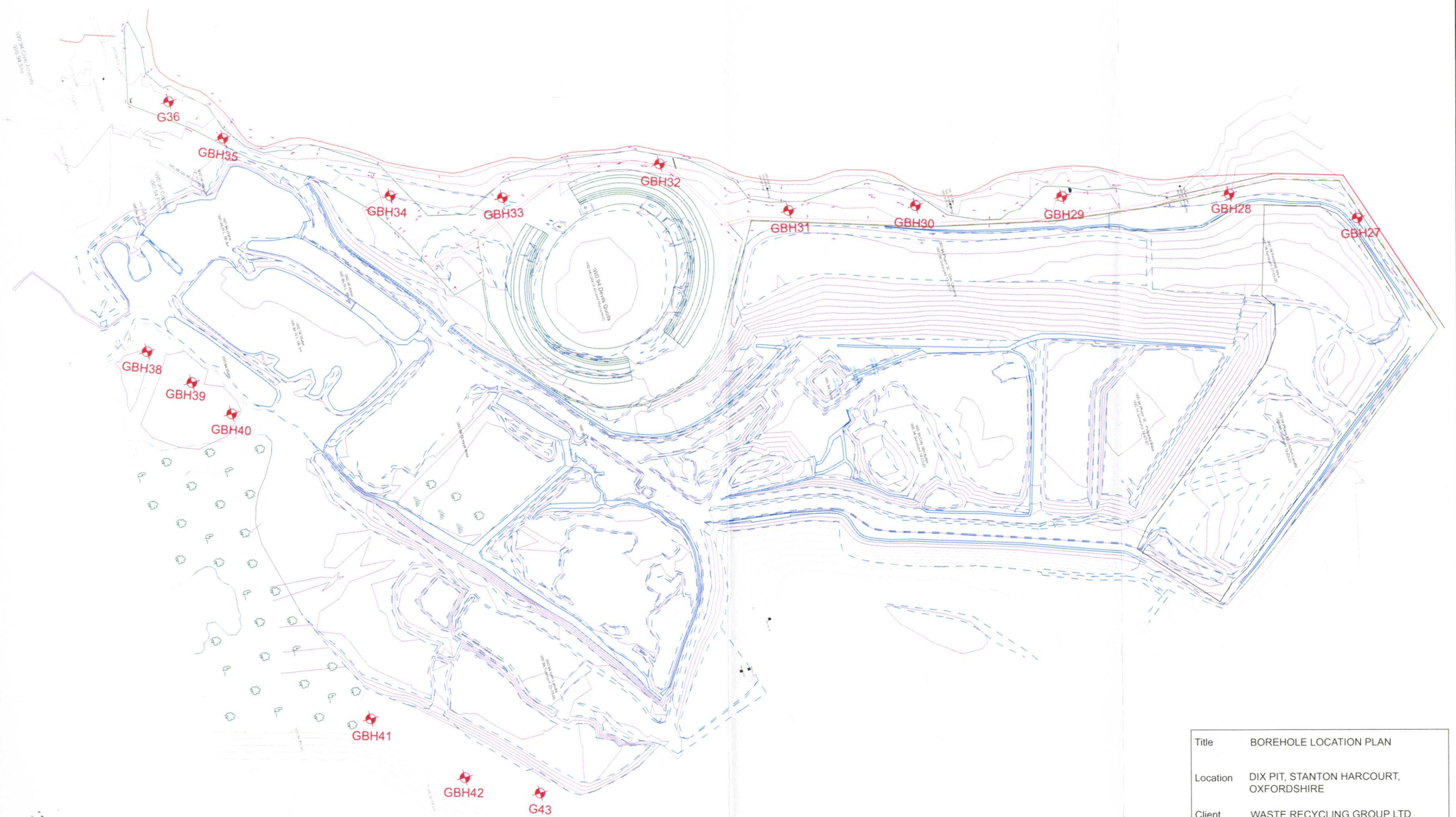
FIGURES



SITE LOCATION

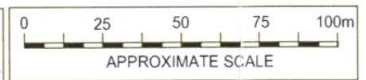
Title			SITE LOCATION PLAN		
Location			DIX PIT, STANTON HARCOURT, OXFORDSHIRE		
Client			WASTE RECYCLING GROUP LTD		
App'd:	Drawn:	Date:			
IH	JW	MAY 2005			
FINAL		Ref:	IH/JW/BIR		
Scale:		Job No:	44358852		
as shown					
Drg. Size:		A4	FIGURE 1		





KEY:
 BOREHOLE LOCATION (MARCH 2005)

Figure based on an original CAD drawing supplied by Waste Recycling Group Ltd.



Title			BOREHOLE LOCATION PLAN		
Location			DIX PIT, STANTON HARCOURT, OXFORDSHIRE		
Client			WASTE RECYCLING GROUP LTD		
App'd:	Drawn:	Date:			
IH	JW	MAY 2005			
Final		Ref:	IH/JW/BIR		
Scale:		Job No:	44358852		
NTS					
Drg. Size:		FIGURE 2			
A3					



TABLES

Table 1
Ground Conditions and Monitoring Well Installation Details
Waste Recycling Group Ltd., Dix Pit

Borehole number	Base of Made Ground (mBGL)	Base of Terrace Deposits/ Top of Clay (mBGL)	Total Depth (mBGL)	Installation (mBGL)	Water strike (mBGL)
GBH27	3.1	7.4	8.5	50mm casing, 1m sump, 6.0m slotted & 1.5m plain @ surface	4.8
GBH28	5.3	5.9	7.0	50mm casing, 1m sump, 5.0m slotted & 1m plain @ surface	5.3
GBH29	4.8	4.8	6.0	50mm casing, 1m sump, 4.0m slotted & 1m plain @ surface	4.5
GBH30	5.0	5.0	6.0	50mm casing, 1m sump, 4.0m slotted & 1m plain @ surface	4.7
GBH31	5.1	5.1	6.0	50mm casing, 1m sump, 4.0m slotted & 1m plain @ surface	4.6
GBH32	4.9	6.0	7.0	50mm casing, 1m sump, 5.0m slotted & 1m plain @ surface	4.9
GBH33	1.7	4.7	6.0	50mm casing, 1m sump, 4.0m slotted & 1m plain @ surface	4.5
GBH34	4.6	4.9	6.0	50mm casing, 1m sump, 4.0m slotted & 1m plain @ surface	4.6
GBH35	4.6	4.8	6.0	50mm casing, 1m sump, 4.0m slotted & 1m plain @ surface	4.6
G36	2.4	6.9	8.0	50mm casing, 1m sump, 6.0m slotted & 1m plain @ surface	4.9
GBH38	3.6	6.3	7.0	50mm casing, 1m sump, 5.0m slotted & 1m plain @ surface	5.3
GBH39	4.5	6.9	8.0	50mm casing, 1m sump, 6.0m slotted & 1m plain @ surface	6.3
GBH40	3.5	6.7	8.0	50mm casing, 1m sump, 6.0m slotted & 1m plain @ surface	5.3
GBH41	0.8	4.2	5.0	50mm casing, 1m sump, 3.0m slotted & 1m plain @ surface	4
GBH42	1.1	3.8	5.0	50mm casing, 1m sump, 3.0m slotted & 1m plain @ surface	3.6
G43	2.6	4.1	5.0	50mm casing, 1m sump, 3.0m slotted & 1m plain @ surface	3.7

-- no water strike observed
mBGL - metres below ground level

APPENDIX A

DRILLER'S DAILY REPORT

CLIENT _____

DATE 24/2/23 OS

CONTRACT No. 17354

SITE ~~Witney~~ Witney

SHEET 1 of 1

BOREHOLE GBH 27

TIME AND PRODUCTION RECORD

from	rig move	no.	hr	dynamic sampling	m	hr
to	rig up	no.	hr	core drilling	m	hr
hrs	rig down	no.	hr	CFA	m	hr
transport to and from site			hr	HSFA	m	hr
awaiting access/instructions			hr	penetration testing	no	hr
			hr	undisturbed sampling	no	hr
			hr	installing	m	hr

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					no.
							washed sand	25kg bags	helmet		push on cap
HDPE							gravel	25kg bags	stopcock		gas valve
UPVC							bentonite pellets	25kg bags	traffic rated		
Triloc							bentonite powder	25kg bags	manhole		WATER LEVELS
19mm							cement	25kg bags	padlocks		before am/pm
							ballast	25kg bags			after am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											EL - 50 Brown Senny Granular Ely 50.3 10 Flyc Ditto Shaker. Pass Fill	GL		Senny Pipe in at 8.50 8.50 - 7.0 Plain 7.0 1.50 Slotted + Gravel
														EL 1.50 Plain + bentonite seal 2 Cemented 1/2 H2O
											3.10 7.40 Clay at First Brown Senny Sand			
											7.40 8.50 From Dry Ely			

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5 10	15 20	
sample taken at		before water flush	
before pulling casing		after pulling casing	

REMARKS

Water at 4.30

weather

driller <u>B. Ry</u>
assistant driller

landrover	rig
-----------	-----

DRILLER'S DAILY REPORT



CLIENT _____

DATE 24 3 05

CONTRACT No. 17354

SITE ~~Wick~~ Wickney

SHEET 1 of 1

BOREHOLE EPH 28

TIME AND PRODUCTION RECORD

from	to	hrs	no.	hr	dynamic sampling	m	hr
					core drilling		
					CFA		
					HSFA		
					penetration testing		
					undisturbed sampling		
					installing		

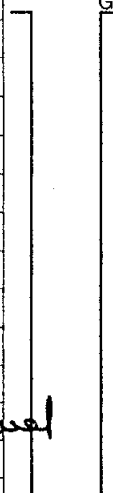
PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					no.
							washed sand	25kg bags	helmet		push on cap
HDPE							gravel	25kg bags	stopcock		gas valve
UPVC							Bentonite pellets	25kg bags	traffic rated		
Triloc							Bentonite powder	25kg bags	manhole		WATER LEVELS
19mm							cement	25kg bags	padlocks		before am/pm
							ballast	25kg bags			after am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description	
		from	to			size (mm)	depth (m bgl)		seating	test drive					
											GL	GL	50mm pipe in at 7.0m		
											1.40 - 1.60 Porous Sandy Crenular Clay				
											1.60 - 5.30 Grey Clay Rick				
											5.30 - 5.90 Porous Sandy Gravel				
											5.90 - 7.0 Brown Clay Ely				

No Samples
Required



WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5	10	15
sample taken at	before water flush		
before pulling casing	after pulling casing		

REMARKS

1.40 - 1.60 1/2hr chiselling breaking large boulder
Work at 5.30m

weather _____

driller PM
assistant driller _____

landrover _____ rig _____

DRILLER'S DAILY REPORT



CLIENT Alison Workney

DATE 24. 3. 05

CONTRACT No. 17354

SITE Alison Workney

SHEET 1 of 1

BOREHOLE RBH89

TIME AND PRODUCTION RECORD

from	to	hrs	rig move	no.	hr	dynamic sampling	m	hr
			rig up	no.	hr	core drilling	m	hr
			rig down	no.	hr	CFA	m	hr
transport to and from site					hr	HSFA	m	hr
awaiting access/instructions					hr	penetration testing	no	hr
					hr	undisturbed sampling	no	hr
					hr	installing	m	hr

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					
							washed sand	25kg bags	helmet	push on cap	no.
HDPE							gravel	25kg bags	stopcock	gas valve	no.
UPVC							bentonite pellets	25kg bags	traffic rated		no.
Triloc							bentonite powder	25kg bags	manhole	WATER LEVELS	
19mm							cement	25kg bags	padlocks	before	am/pm
							ballast	25kg bags		after	am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											EL 1-50 Brown Sandy Circular Clay Fill	GL	50mm pipe in at 60	
											1-50 Grey Shaly Silty Clay, traces of pebbles etc		60-50 Plain 50-1-0 Slotted + washed sand	
											4-50 Shaly Grey Clay		no EL Plain + Bentonite Sag + Cemented Cover 1/2hr dw.	

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5 10	15 20	
sample taken at		before water flush	
before pulling casing		after pulling casing	

REMARKS

Water Seepage at 4-50.

weather

driller B.D.
assistant driller

landrover rig

DRILLER'S DAILY REPORT



CLIENT _____

DATE 24 3 05

CONTRACT No. 17354

SITE Witney

SHEET 1 of 1

BOREHOLE GBW 30

TIME AND PRODUCTION RECORD

from	rig move	no.	hr	dynamic sampling	m	hr
to	rig up	no.	hr	core drilling	m	hr
hrs	hr	rig down	no.	hr	CFA	m
transport to and from site			hr	HSFA	m	hr
awaiting access/instructions			hr	penetration testing	no	hr
			hr	undisturbed sampling	no	hr
			hr	installing	m	hr

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					no.
							washed sand	25kg bags	helmet		push on cap
HDPE							gravel	25kg bags	stopcock		gas valve
UPVC							bentonite pellets	25kg bags	traffic rated		
Triloc							bentonite powder	25kg bags	manhole		WATER LEVELS
19mm							cement	25kg bags	padlocks		before am/pm
							ballast	25kg bags			after am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											GL		50mm Pipe in	
													at 60 Mb	
													60 50 Plain	
													50 1-U Slotted	
													+ washed Sand	
													1-0 GL Plain	
													+ Bentonite Seal	
													+ Cemented	
													Cover	

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at		settled at	
after striking	5	10	15	20	
sample taken at	before water flush				
before pulling casing	after pulling casing				

REMARKS

Seepage at 4.70

weather _____

driller B.A
assistant driller _____

landrover _____ rig _____

DRILLER'S DAILY REPORT



CLIENT _____

DATE 22/24 3 05

CONTRACT No. 17354

SITE Wibny

SHEET 1 of 1

BOREHOLE GRH B1

TIME AND PRODUCTION RECORD

from	to	hrs	hr	no.	hr	m	hr
	rig move						
	rig up						
	rig down						
	dynamic sampling						
	core drilling						
	CFA						
	HSFA						
	penetration testing						
	undisturbed sampling						
	installing						

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)	CASING (m)	RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD
	1.0 1.5 3.0	1.0 1.5 3.0	washed sand	25kg bags	helmet	push on cap
HDPE			gravel	25kg bags	stopcock	gas valve
UPVC			bentonite pellets	25kg bags	traffic rated	
Triloc			bentonite powder	25kg bags	manhole	WATER LEVELS
19mm			cement	25kg bags	padlocks	before am/pm
			ballast	25kg bags		after am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
												GL		
											0.0 - 1.40 Brown Gravelly Sandy Clay			50mm pipe in at 60 Mh 60 50 Plain 50 10 Slotted + washed Sand
											1.40 - 1.70 Concrete obstruction			
											1.70 - 5.10 Grey Clay + Stone fill			1.0 RL Plain + Bentonite Seal + Cemented Cover 1/2 HR DW
											5.10 - 6.0 Shale Grey Clay			

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5 10	15 20	
sample taken at		before water flush	
before pulling casing		after pulling casing	

REMARKS

1/2 HR chiselling 1.40 - 1.70 (concrete boulder obstruction)
Water at 4.60

weather _____

driller B. Ray
assistant driller _____

landrover _____
rig _____

DRILLER'S DAILY REPORT



CLIENT _____

DATE 23. 3. 05

CONTRACT No. 17384

SITE Wibney

SHEET 1 of 2

BOREHOLE GBN 22

TIME AND PRODUCTION RECORD

from	to	hrs	hr	dynamic sampling	m	hr
				core drilling		
				CFA		
				HSFA		
				penetration testing		
				undisturbed sampling		
				installing		

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					
							washed sand	25kg bags	helmet		push on cap
HDPE							gravel	25kg bags	stopcock		gas valve
UPVC							bentonite pellets	25kg bags	traffic rated		
Triloc							bentonite powder	25kg bags	manhole		WATER LEVELS
19mm							cement	25kg bags	padlocks		before am/pm
							ballast	25kg bags			after am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											GL 4-90 Brown & Grey Gravelly Clay Masses of Brick Flint 4-90 6-0 Brown Grey Sand Gravel 6-0 7-0 Blue Grey Clay	GL		50MM pipe in at 7-0 7-0 6-0 Plains 6-0 1-0 Slotted + washed sand 1-0 GL Plains + Bentonite Seal + Cemented Cover 1/2hr DW
No Samples Required														

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5 10	15 20	
sample taken at	before water flush		
before pulling casing	after pulling casing		

REMARKS

Water Samples 3-70 struck at 4-90

weather _____

driller B. Ry
assistant driller _____

landrover _____
rig _____

DRILLER'S DAILY REPORT



CLIENT _____ DATE 23 3 05

CONTRACT No. 17354

SITE Witney SHEET 1 of 1

BOREHOLE GBW 33

TIME AND PRODUCTION RECORD

from	rig move	no.	hr	dynamic sampling	m	hr
to	rig up	no.	hr	core drilling	m	hr
hrs	rig down	no.	hr	CFA	m	hr
transport to and from site			hr	HSFA	m	hr
awaiting access/instructions			hr	penetration testing	no	hr
			hr	undisturbed sampling	no	hr
			hr	installing	m	hr

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0				push on cap	no.
							washed sand	25kg bags	helmet		no.
HDPE							gravel	25kg bags	stopcock		no.
UPVC							bentonite pellets	25kg bags	traffic rated		no.
Triloc							bentonite powder	25kg bags	manhole	WATER LEVELS	
19mm							cement	25kg bags	padlocks	before	am/pm
							ballast	25kg bags		after	am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
												GL		50mm Plain at 6.6 Mlx
														6.0 SC Plain
														5.0 SC Slotted + washed Sand
														1.0 RL Plain + Bentonite Seal + Cemented Cover 1/2" dia DW
<p>No Samples Required</p> <p>last attempt obstruction 2.30, poss cement boulder under to penetrate with 1 HR swelling</p> <p>Repositioned Rig and 7 Mlx Reverted</p> <p>specimen set up + 1 HR swelling</p> <p>Shuts @ 2.30 was RL 1.70 Brown Silty Clay 1.70-2.50 Grey Silty Clay</p>														
											RL 1.70 Brown Silty Clay traces of Brsch + gravel			
											170 SC Soft Silty Clay Silty Clay gravelly 4.70 SC			
											30.60 Bluff Grey Clay			

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at		settled at	
after striking	5	10	15	20	
sample taken at	before water flush				
before pulling casing	after pulling casing				

REMARKS

Water at 4.30

weather _____

driller B. Roy
assistant driller _____

landrover _____ rig _____

DRILLER'S DAILY REPORT

CLIENT Wickham

DATE 23 3 05

CONTRACT No. 17354



SITE _____

SHEET 1 of 1

BOREHOLE GBH 34

TIME AND PRODUCTION RECORD

from	rig move	no.	hr	dynamic sampling	m	hr
to	rig up	no.	hr	core drilling	m	hr
hrs	rig down	no.	hr	CFA	m	hr
transport to and from site			hr	HSFA	m	hr
awaiting access/instructions			hr	penetration testing	no	hr
			hr	undisturbed sampling	no	hr
			hr	installing	m	hr

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					
							washed sand	25kg bags	helmet	push on cap	no.
HDPE							gravel	25kg bags	stopcock	gas valve	no.
UPVC							bentonite pellets	25kg bags	traffic rated		no.
Triloc							bentonite powder	25kg bags	manhole	WATER LEVELS	
19mm							cement	25kg bags	padlocks	before	am/pm
							ballast	25kg bags		after	am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
												GL		
											EL 1.60 Brown silty gravelly clay fill			50MM pipe in at 60 Mb 60 50 Plain 50 1.0 Slotted + washed sand
											1.60 4.90 Grey Moist Shaly Clay lenses of Bridg. fine gravelly at base			10 @ Plain + Bentonite Seal of Cemented Cover / under
											4.90 6.0 Shaly Clay			

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5 10	15 20	
sample taken at		before water flush	
before pulling casing		after pulling casing	

REMARKS

Water at 4.60 ML

weather _____

driller B. Ry
assistant driller _____

landrover _____
rig _____

DRILLER'S DAILY REPORT



CLIENT Witney

DATE 22. 3 05

CONTRACT No. 17324

SITE _____ SHEET 1 of 1

BOREHOLE GUY ~~018~~ QBN 35

TIME AND PRODUCTION RECORD

from	rig move	no.	hr	dynamic sampling	m	hr
to	rig up	no.	hr	core drilling	m	hr
hrs	rig down	no.	hr	CFA	m	hr
transport to and from site				HSFA	m	hr
awaiting access/instructions				penetration testing	no	hr
				undisturbed sampling	no	hr
				installing	m	hr

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0	washed sand	25kg bags	helmet	push on cap	no.
HDPE							gravel	25kg bags	stopcock	gas valve	no.
UPVC							bentonite pellets	25kg bags	traffic rated		no.
Triloc							bentonite powder	25kg bags	manhole	WATER LEVELS	
19mm							cement	25kg bags	padlocks	before	am/pm
							ballast	25kg bags		after	am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											GL 2.60 Brown Sandy Clay fill	GL	50mm Pipe at 60	
											2.60 4.60 Hard Soft Silty Clay Ely		60 50 Plain	
											4.60 4.80 Curvedly Ely		50 10 Sloppy + washed Sand	
											4.80-60 Soft Clay Ely		10 GL Plain + Bentonite Seal a Cemented Cover	

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5 10	15 20	
sample taken at	before water flush		
before pulling casing	after pulling casing		

REMARKS

No Water struck
 2 ANS standing waiting Q2 BN position
 + Induction.

weather _____

driller B. Ray
 assistant driller _____

landrover _____ rig _____

DRILLER'S DAILY REPORT

01452507435



CLIENT _____

DATE 29. 3. 03

CONTRACT No. 17354

SITE Witney

SHEET 1A

BOREHOLE EBN 36

TIME AND PRODUCTION RECORD

from	rig move	no.	hr	dynamic sampling	m	hr
to	rig up	no.	hr	core drilling	m	hr
hrs	rig down	no.	hr	CFA	m	hr
transport to and from site			hr	HSFA	m	hr
awaiting access/instructions			hr	penetration testing	no	hr
			hr	undisturbed sampling	no	hr
			hr	installing	m	hr

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					
							washed sand	25kg bags	helmet	push on cap	no.
HDPE							gravel	25kg bags	stopcock	gas valve	no.
UPVC							bentonite pellets	25kg bags	traffic rated		no.
Triloc							bentonite powder	25kg bags	manhole	WATER LEVELS	
19mm							cement	25kg bags	padlocks	before	am/pm
							ballast	25kg bags		after	am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											EL 2.40 Grey Clay Stone Bed Fill, Concrete obstruction at 1.60 - 1.90	GL		50MM pipe in at 2.60 TH 50 7.0 Plain 70 1.0 Slotkey + Cemented Fire
											2.40 4.90 Brown Clayey Sandy Gravel			EL 1.0 Plain + Bentonite Seal o Cemented Cover 1/2" x 2" DW
											4.90 6.90 Brown Sandy Gravel + Rubble			
											6.80 8.00 Brown Grey Clay			

WATER DEPTHS (m bgl)

a.m.	p.m.		struck at	settled at
after striking	5	10	15	20
sample taken at	before water flush			
before pulling casing	after pulling casing			

REMARKS

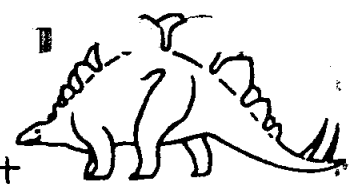
1.60 1.90 2 1/2" x 2" chiselling
Water at 4.90

weather

driller <u>B.P.</u>
assistant driller

landrover	rig
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DRILLER'S DAILY REPORT



CLIENT _____

DATE 30. 3. 05

CONTRACT No. 17354

SITE Witney

SHEET 1 of 1

BOREHOLE BA 38

TIME AND PRODUCTION RECORD

from	to	hrs	hr	no.	hr	m	hr
rig move	rig up						
rig down							
transport to and from site							
awaiting access/instructions							
dynamic sampling							
core drilling							
CFA							
HSFA							
penetration testing							
undisturbed sampling							
installing							

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					
							washed sand	25kg bags	helmet	push on cap	no.
HDPE							gravel	25kg bags	stopcock	gas valve	no.
UPVC							bentonite pellets	25kg bags	traffic rated		no.
Triloc							bentonite powder	25kg bags	manhole	WATER LEVELS	
19mm							cement	25kg bags	padlocks	before	am/pm
							ballast	25kg bags		after	am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											RL 360 Brown Clayey Sand Gravel	GL	50mm Pipe in at 7.0 7.0 to 1.0 60 RL Slothead + gravel 1.0 RL Plain + Bentonite Seal + Cemented Cover 1/2111 DW.	
											360. 6.30 Brown Coarse Sand Gravel & Clay			
											6.30 7.0 Shale Clay etc			
No Samples Required														

WATER DEPTHS (m bgl)

a.m.	p.m.		struck at		settled at
after striking	5	10	15	20	
sample taken at	before water flush				
before pulling casing	after pulling casing				

REMARKS

Work opp 5.30

weather _____

driller B. Ry
assistant driller _____

landrover _____ rig _____

DRILLER'S DAILY REPORT



CLIENT _____

DATE 130 3 05

CONTRACT No. 17354

SITE Witney

SHEET 1 of 1

BOREHOLE CBH 39

TIME AND PRODUCTION RECORD

from	to	hrs	no.	hr	dynamic sampling	m	hr
					rig move		
					rig up		
					rig down		
					core drilling		
					CFA		
					HSFA		
					penetration testing		
					undisturbed sampling		
					installing		

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					no.
							washed sand	25kg bags	helmet		push on cap
HDPE							gravel	25kg bags	stopcock		gas valve
UPVC							bentonite pellets	25kg bags	traffic rated		
Triloc							bentonite powder	25kg bags	manhole		WATER LEVELS
19mm							cement	25kg bags	padlocks		before am/pm
							ballast	25kg bags			after am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description	
		from	to			size (mm)	depth (m bgl)		seating	test drive					
No Samples Required															
											GL 2.10 Brown Sandy Clayey Gravelly Flg fill		GL	50mm pipe in at Min 80	
											2.10 Grey Sandy Clay 1.5m Becoming brown clay			80% plain 20% slotted + gravel	
											app 4.50 5.90 6.90 Brown Sandy Clayey Gravelly 6.90 8.0 1.7m by 1.7m			plain + Bentonite Seal of Cemented over 1/2m dia	

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5	10	15
sample taken at			before water flush
before pulling casing			after pulling casing

REMARKS

water app 6.30.

weather

driller <u>B.Ry</u>
assistant driller

landrover	rig
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DRILLER'S DAILY REPORT



CLIENT _____

DATE 29. 3 05

CONTRACT No. 17354

SITE Witney

SHEET 1 of 1

BOREHOLE MBN 40

TIME AND PRODUCTION RECORD

from	to	hrs	hr	no.	hr	dynamic sampling	m	hr
						core drilling		
						CFA		
						HSFA		
						penetration testing		
						undisturbed sampling		
						installing		

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD		
	1.0	1.5	3.0	1.0	1.5	3.0				before	am/pm	m
							washed sand	25kg bags	helmet		push on cap	no.
HDPE							gravel	25kg bags	stopcock		gas valve	no.
UPVC							bentonite pellets	25kg bags	traffic rated			no.
Triloc							bentonite powder	25kg bags	manhole			
19mm							cement	25kg bags	padlocks			
							ballast	25kg bags				

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											BL 2-10 Brown Sandy Clayey Gravel with concrete boulders	GL		Pipe in gth ML (50mm)
											2-10 3-50 Cpy & Brown Clay Fill			+ bentonite & + G 80-70 Plain 70-1-0 Slothead + gravel
											3-50 6-70 Brown Sandy Clayey Gravel			1-0 el Plain + bentonite Seal Remained Cues 1/2 HR DW
											6-70 8-0 Firm Dry Clay			

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5	10	15 20
sample taken at		before water flush	
before pulling casing		after pulling casing	

REMARKS

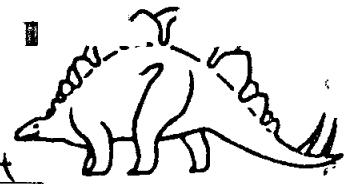
1/2 HR chattering Concrete boulders
Work opp. 5:30

weather _____

driller B. Ry
assistant driller _____

landrover _____
rig _____

DRILLER'S DAILY REPORT



CLIENT Witney

DATE 5 4 05

CONTRACT No. 17354

SITE Witney

SHEET 1 of 1

BOREHOLE GBN41

TIME AND PRODUCTION RECORD

from	to	rig move	no.	hr	dynamic sampling	m	hr
		rig up			core drilling		
hrs	hr	rig down			CFA		
transport to and from site				hr	HSFA		
awaiting access/instructions				hr	penetration testing		
				hr	undisturbed sampling		
				hr	installing		

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					
							washed sand	25kg bags	helmet	push on cap	no.
HDPE							gravel	25kg bags	stopcock	gas valve	no.
UPVC							bentonite pellets	25kg bags	traffic rated		no.
Triloc							bentonite powder	25kg bags	manhole	WATER LEVELS	
19mm							cement	25kg bags	padlocks	before	am/pm
							ballast	25kg bags		after	am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											EL 0.50 Brown gravelly Clay with small boulders	GL		50 MM Pipe (w) at 50 MM
											0.50 4.20 Dry Brown Sand Gravel & Shale wet 4.0-4.20			50 40 Plain 40 1-0 Slotted + gravel 1.0 EL Plain + Bentonite Seal & Cemented Caves 1/2 HR DW
											4.20 5.0 1.0m Dry Cl			+ 0.20 above EL

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5 10	15 20	
sample taken at	before water flush		
before pulling casing	after pulling casing		

REMARKS

Wak at 4.0 11hr DW. Taking water

weather

driller B.A
assistant driller

landrover rig

DRILLER'S DAILY REPORT



CLIENT _____

DATE 6. 5. 05

CONTRACT No. 17354

SITE Witney

SHEET 1 of 1

BOREHOLE GBW 42

TIME AND PRODUCTION RECORD

from	rig move	no.	hr	dynamic sampling	m	hr
to	rig up	no.	hr	core drilling	m	hr
hrs	hr	rig down	no.	CFA	m	hr
transport to and from site				hr	HSFA	m
awaiting access/instructions				hr	penetration testing	no
				hr	undisturbed sampling	no
				hr	installing	m

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					
							washed sand	25kg bags	helmet	push on cap	no.
HDPE							gravel	25kg bags	stopcock	gas valve	no.
UPVC							bentonite pellets	25kg bags	traffic rated		no.
Triloc							bentonite powder	25kg bags	manhole	WATER LEVELS	
19mm							cement	25kg bags	padlocks	before	am/pm
							ballast	25kg bags		after	am/prg

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											GL			
											at 1.10			50MM pipe in
											at 3.50			at 1.10
											1.10 3.50			50 40 plain
											Dry Brown Senny			40 10 Slotting
											around a bit			+ gravel
											Next 300 300			1.0. 2 Plain
														+ bentonite Seal
														& cemented cover
														1/2 HR DW

No Samples Required

WATER DEPTHS (m bgl)

a.m.	p.m.	struck at	settled at
after striking	5 10	15 20	
sample taken at	before water flush		
before pulling casing	after pulling casing		

REMARKS

Water at 300 M (depth would assume water) at 1.10 open

weather _____

driller BA
assistant driller _____

landrover _____ rig _____

DRILLER'S DAILY REPORT



CLIENT _____ DATE 5. 3. 05

CONTRACT No. RBW43

SITE Wahine

SHEET 1 of 1

BOREHOLE 17354

TIME AND PRODUCTION RECORD

from	rig move	no.	hr	dynamic sampling	m	hr
to	rig up	no.	hr	core drilling	m	hr
hrs	rig down	no.	hr	CFA	m	hr
transport to and from site				HSFA	m	hr
awaiting access/instructions				penetration testing	no	hr
				undisturbed sampling	no	hr
				installing	m	hr

PIEZOMETER / STANDPIPE RECORD

TYPE	SCREEN (m)			CASING (m)			RESPONSE ZONE/SEAL	No. USED	COVER TYPE	WELL HEAD	
	1.0	1.5	3.0	1.0	1.5	3.0					
							washed sand	25kg bags	helmet		push on cap
HDPE							gravel	25kg bags	stopcock		gas valve
UPVC							bentonite pellets	25kg bags	traffic rated		
Triloc							bentonite powder	25kg bags	manhole		WATER LEVELS
19mm							cement	25kg bags	padlocks		before am/pm
							ballast	25kg bags			after am/pm

DRILLING AND SAMPLING RECORD

sample no.	type	depth (m bgl)		drilled (m)	recov'd (m)	casing		water depth (m bgl)	penetration test		strata description	installation / backfilling	depth (m bgl)	installation description
		from	to			size (mm)	depth (m bgl)		seating	test drive				
											GL		5.0m 4m Plain	
													4.0 to 1.0 Stopcock + gravel	
													1.0 GL Plain + bentonite seal	
													a Cemented Casing	
													1.2m SW	

WATER DEPTHS (m bgl)

a.m.	p.m.		struck at		settled at	
after striking	5	10	15	20		
sample taken at			before water flush			
before pulling casing			after pulling casing			

REMARKS

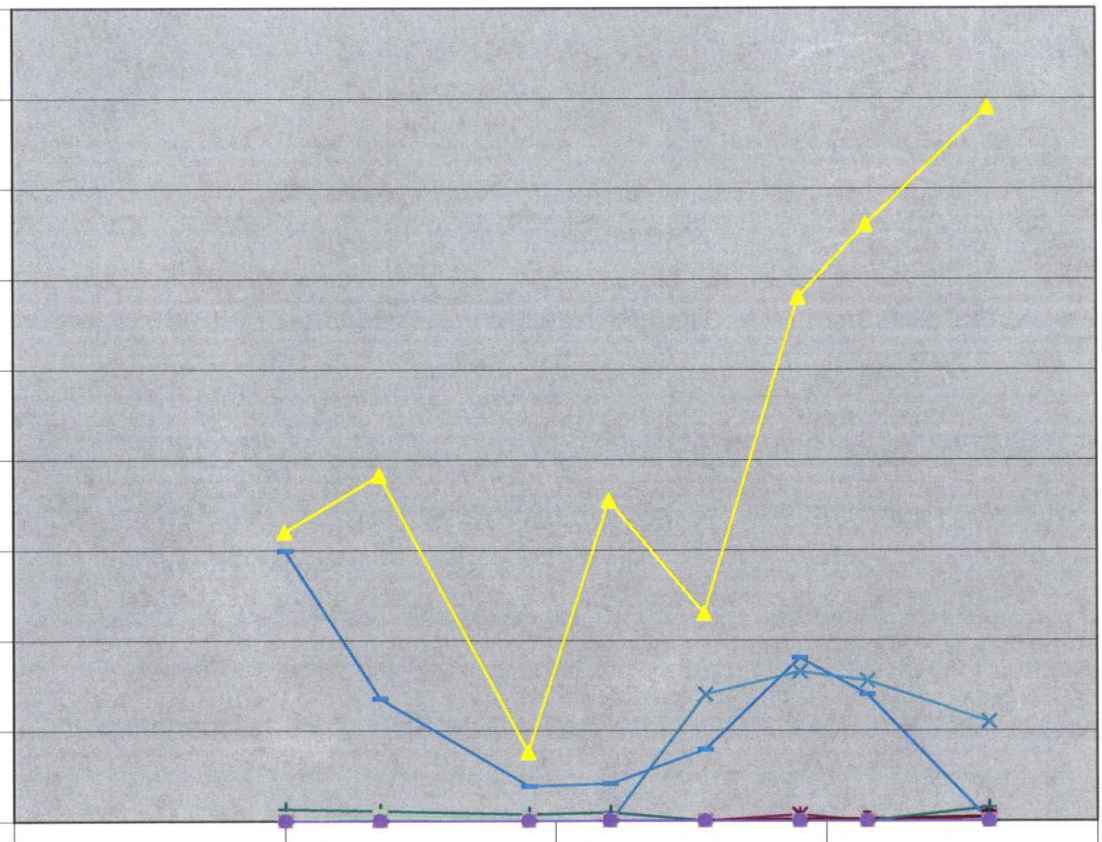
Wah at 3.70 M
Day works on all B.H.s Both with C/A Step Cook (Pipes)
including time collecting pipe & gravel from Storage
area

weather _____

driller B. Ry
 assistant driller _____

landrover _____
 rig _____

90
80
70
60
50
40
30
20
10
0



- SW6 G27
- SW6 G28
- SW6 G29
- SW6 G30
- SW6 G31
- SW6 G32
- SW6 G33
- SW6 G34
- SW6 G35
- SW6 G36
- SW6 G39
- SW6 G40

29/03/ 2005
18/04/ 2005
08/05/ 2005
28/05/ 2005
17/06/ 2005

air lifting
↓

	18/04/2005	25/04/2005	06/05/2005	12/05/2005	19/05/2005	26/05/2005	31/05/2005	09/06/2005
SW6 G27	0	0	0	0	0	0	0	0
SW6 G28	0	0	0	0	0	0	0	0.4
SW6 G29	32	38.3	7.6	35.5	23	58	66	79
SW6 G30	0	0	0	0	14	16.5	15.5	11
SW6 G31	0	0	0	0	0	0.7	0	0.4
SW6 G32	0	0	0	0	0	0.2	0.2	0.5
SW6 G33	1.3	1.1	0.7	0.9	0	0	0	1.5
SW6 G34	0	0	0	0	0	0	0	0
SW6 G35	29.9	13.5	3.8	4.1	7.9	18	14	0
SW6 G36	0	0	0	0	0	0	0	0
SW6 G39	0.2	0.5	0.1	0	0	0	0	0
SW6 G40	0	0	0	0	0	0	0	0
SW6 G41	0	0	0	0	0	0	0	0
SW6 G42	0	0	0	0	0	0	0	0
SW6 G43	0	0	0	0	0	0	0	0

29 - 6.8 m of make gravel - no gravel
6.0 m total depth

35 - 6.6 m of make gravel - 0.2 m gravel
6.0 m total depth.