

Tamar View Landfill Appendix B

Appendix B Review of EA October 2018 Feedback



No F4	A Comment	EA Rationale	Response*
1 Re	Accumination When the SCM to take account of the waste in the EFL being part sub-water bie in the western part of the Eales farm landfill (EFL)	On-maintained, chairings in the 16th report figure 1 (densityed from DESSO11); and Figure 3, those has old grandwister. The Tendercombines in SESSONO. This open of on context printer grandwater established sets. It is imported that the SCM is based on site specific information so that this can be taken into account in the quantitative modelling.	responses made DD (Appendix O). The valet level is all restricted with controlling with common in the multiple or by generally related the base of the seals. The principal expenses have required the properties and the seals and proposed the properties of the seals
2b Re	satify in detail the choice of mode schwars, CONSIAI, in relation to the vised SCAI, and justify why this is an most peopropriate model to use instead the industry standard Landsim, or any other model. write model scenarios, and develop them for a) the existing EFL, and b) the write model scenarios, and develop them for a) the existing EFL and b) the write model scenarios, and develop them for a) the existing EFL and b) the write model scenarios, and develop them for a) the existing EFL and b) the proposal control of the control of t	Use of Commin is netwoquately justified. The inclusity standard model, Lendonin is normally used for landfills Separate models have been in no COMBM-1 or for the FEE, and separate one just for PLN PLV, scorario model does not account for the fact that there will be a perched leachable head above the EEL, and that the seepuges from TVL will pass through COMBM-1 the applications of the perched leachable head above the EEL, and that the seepuges from TVL will pass through COMBM-1 the applications reported model over the industry standard model Landsin which was developed specifically for groundwater risk assessment at landfills.	CurSim and LandSim CorSim is deathfied in Environment Agency guidance on understaining groundwater mit assessment for your environmental permit an am appropriet bod for understaining profiles calculations. Additional discoasions on the intensive for failings (CorSim is premented in Section 3.3) Optinical importance to this project, using CORSIM all diversel the large dataset on entering sold quality with the East Farm Landfill to be rought directly to be model. For constitutioning it was elected to continue with CORSIM an appeared to using an identification and fine of purchased and additional electric proposed. East Farm Landfill Exercision. The potential effects of both profiles have been taken in the count in the easting model score man. The proposed East Farm Landfill flower and appear quality data scored or from the Easting Section (Taylords Taylords).
2c A grobe	Inclinease or Joon similars are instituted. Inclinease of the revised model scenarios, including cundwider, rainfal, surface water and leachate aspects, because none has en presented of the presented detailed via provided assessment because none has been provided. The reserve of the models and modeled scenarios.		Relevant details of the relevant fluxes into and out of the landfill (i.e. the valor bilance) are presented throughout the report including assumptions. For example, relating to another later clases DRs. DRb and DRI on Appendix of the land on later (later clases DRs. DRs. DRs. DRI). The potential impact of a regular load is considered in Sections 8.10 and 8.12. Paper capies of the model outputs are presented in Appendix in the electronic copies of the models provided. As noted in the previous report, these were available upon
sc	able titles. Make it clear in the titles of the tables which landfill and model enairs it is triked to, and how the tables are linked or connected which is Source Term. Class detailed description and explanation for	Is not clear that parameters and their values have been used for the sources, the pathways, and the receptors, in the model socretion. For example, it is not clear if table 5 source term data relation to the model socretion for Edels Farm Landfill EFFL, and whether Table 7 source form data relation to the model socretion for Landfill EFFL, and is not clear to have a final form of the model socretion for mid-landfill EFFL, and is not clear to have a final for the model for FVL relation to Table 7 source term data etc.	Nation: All table titles in Appendix D are identified as relating to the historically deposited waste (Existing Eales Farm Landfill) or the proposed landfill (Proposed Eales Farm Landfill Extension). For clarity, Table 84 in the report test summarises the table in Appendix D with the relevant model and associated data. Statistical distribution for all contensionates of account have been relativisted featured on advanced this account of the Table TV to TV to TV of Account O.
	title 6 Source Term. One detailed description and explanation for infliction of how the pdf distributions and values have been derived for each fortise.	Class units are quoted an myllig. For example for ament, data guided are a round distribution, mean of El' myllig and standard deviation (CII) of a Princip, the legislation gives in Elizated conscribing of a service considered to represent naturally in a hour data. In low data for all substances in the table have been calculated in the contract of	Statistical distribution for all conteminents of concern has been calculated based on relevant she-specific dataset presented in Table 10 (5 storts) belief part in Land 10 (5 storts) belief part and 10 to 10 to 50 of Appendix 0. Unless departed for water composition every high tended to the tender of the part and 10 to 10
	able 7 Source Term. Give detailed description and explanation of how the distributions and values have been derived for each substance.	It is not clear why are the data quoted in mgN units here, but mgNg in Table 6. Table 7 proposed source term data - uniform distribution between the LNB, and the inner WAC limit needs to be adequately justified. Also, the operator could accept all next index containing substances at the respective in ent WAC maximum limits, so this must be reflected in the leachable source term. Also see reasons given in the proceding term.	has necest testing in 2020). As noted above, the Eales Farm Landfill model (Table DB) is primarily based on the measured concentrations of contaminants of concern in sol, with all concentrations entered in rights, apart from amenicants infrogen. By contrast the waste to be placed in the Proposed Ealer Farm Landfill Extension model is based on a range between the laboratory regording limit and right for the properties of the second of the properties
pd ho	able 8 Source Term. Give detailed description and explanation of how the off detributions and values have been derived for each substance. Explain we there data relate to those in Table 6 and Table 7 and to which model (s) ye are linked.	It as not clear what the data in this table relate to and how they have been derived in detail. Also see reasons given in the preceding term.	Table DB sets out the contaminants of concern (i.e. the source term) used in the Existing Ealer Farm Landill model. Table DP sets out the contaminants of concern (i.e. the source term) used in the Proposed Ealer Farm Landill Extension model. Both table DB and DP include the units (i.e. mg/l or mg/kg) that the source data have been entered into the model, slowy the the assured destable in contaminant conversations for the proposed of the model. Section 8.6 of the regort sets on the approach to obtaining input parameters and associated reflected. For clarify Table DB has been spill test DBs (Estiding Ealer Farm Landill Extension Model). Much of the fact, which finished to the proposed to the product of the contaminant of concerns, a reproduced in both tables. In most cases the default CONSM values have been utilised, in the absence of data within CONSM reference has been made to alternative data sources.
hy Gir Val Eff Air W FC Ur	bite 9A EF, model assumptions, and Table 9B EFL model assumptions for directors in history, and table 9B EFL model assumptions for directors in history, and an explanation of how the pdf distributions and time have been derived for each parameter, particularly filled promptly and effect of prompting and the prompting of the prompting DC. Comparison of the prompting of the prom	Effective results. A men 44.8 if min, 50.40.5 mm/s, is quoted as being calculated from met effice data 1980-2010 from a nearby weather station. But where is this weather station, what are the data, and the calculations? Why is a 10.8 factor applied to the data because a city, were late put our mining large of EFT. Farther generalization based on sand accordance given a contract of them 0.5 is derived. And these years were presented to the contract occursage in model for how 0.5 is derived. And the permeability, Also their have been some very well years alrea 2010, and these need to be taken into account and in light of a charging climate. At Effect processing well as the contract of the cont	Effective Ratinals Reference to worker station (Pymouth, Mountbatten, https://www.medifice.gov.uk/research/climate/maps-and-dataluk-climate-averages/gherfon/jm) included in report. As raded in the report (Section 8.8) the effective striff of the bearn reduced to late in the account filtry planned to permeability daily are proposed to be gleaned over the majority of the Client's manufaction of the planned to the planned t
UZ UZ UZ Aq Aq	2P list-inces 2P interial dispersivity 2P interial dispersivity 2P interial dispersivity and the fisheries and an experiment of the fisheries and an experiment of the fisheries aplier mining zone thickness aplier physical properties – bulk density etc	Value adopted based on Horizon professional experience on aerthworks projects*. FOC: The bitungular distribution and data – please show the data used and calculations how the data have been derived. Unsaturated zone hichress. Clarify what this refers to A nighe value of 7 m is not adequately justified, it seems to refer to waste thicknesses and not the subgrade or against presenth the waste. The unsaturated zone range of the sub-grade varies greatly, from zero (because the northern latar is ab-water table) loosewall merice electrical results and about the properties of the sub-grade varies greatly, from zero (because the northern latar is ab-water table) loosewall merice electrical results and a sub-grade below the waste and in the aquifer. LOD thickness. The range 1-3-1 m does not reflect the conditions at the site since a large part of the landfill is sub-water table. LOD Vertical dispersively. It is assumed to be 10% of unsaturated pathway - please justify the relevance of this parameter for the LODP.	As Field Promish and Water Field Provally Additional justification included in Tables DBA, DBs and D10 plus sensitivity analysis in report. Its noted this is not a sensitive parameter in the model. FOC The row data and summary statistics used for the FOC are presented in Table D1 (Appendix D). Unstanted Zone Thickness The SCM developed for the Essing Eslets Farm Landilli model is shown on the drawing in Appendix I and described in Section 8.4 of the report. The length of the Unstanted Zone February (in the depth is granufosate brenesh the ensisting vaste mass) has been modeled to bate into account the variation in the depth to granufosate brenesh the size. For the purpose of the model, the waste is not considered to be solv water table, however as described above, the model has been revised to seal water table, however as described above, the model has been revised to seal water table, however as described above, the model has been revised to seal water table. When considering the early be considered above is the haste of the water sheet. When considering moment in the unstantanted zone Configuration and the production of the department of the department of the production of the production of the department of the production of the production of the department of the production of the department of the department of the department of the department of the configuration of the consideration of the department of the department of the configuration of the configuration of the department of the department of the California dispersion is a scale department entire increasing with the value has been adopted in the Eslets Farm Landill model.
		(LDP hydradic conductivity). Clarify whether conductivity or premability, since the justification given refers to premability data. Please conductivity or premability, since the justification given refers to premability data. Please conductive whether data desired to - the appetite to make the sequence of the sequen	DDP high radia Conductions to expensive of a soil to allow water to pass through it. Permeability in a property of the porsus markers whilst hydrautic conductivity blace into account properties of the flowing fault. Given the flaid in question is water, the two terms can be used interchangeably in this instance. Site specific data or permeability of the badrox is presented in the SSSO and is summarized in Section 4.6 of the report. Since issued revision 1.0 the report additional blackwaithy based feeting of the permeability of the badrox is the base or inchangeable to the section of t
		The justification given for a mean 30m thick againer with 50 d 3 m is not clear. The aguiler thickness should be based on the available peoplegal information including ground investigations, ISSS maps, and alse specific mapping. Missing zone thickness. Missing zone thickness. The justification given in that it is "calculated by CONSIM", but the value has not been stated, in reality this parameter is better according to the properties of the properties of the properties of the properties of the properties. Only 10 miles of the properties of the properties of the properties. Dry 10 miles of the properties. Dry 10 miles of values for values for a calculation of the properties. Dry 10 miles of values for val	on the source geometry plus other parameters including qualifier hydraulic properties and inflation rate. Given the lack of knowledge making is the Topical Formation, including discontinuins plance in the material to allow comparisons and model validation, use of the CONSIM model is considered resconder. This is not a sensitive parameter in the model (see sensitivity) analysis in Section 8.1 for report). Against Physical Properties. The Topical Corrustion is described by the BGS as "towarish purple to purplish and cleared musticone and fire-grained allistone, yellowish to bite-green, fine- to consequence of the control of the squared solutions and fire-grained sandstone." Details of the aquifer properties are presented in Section 4.5, including reference to the BGS Aquifer Physical Properties Manual.
Gir val Eff Air W FC	table 10 - TVL model assumptions we detailed description and explanation of how the pdf distributions and share have been derived for each parameter, particularly fletcher artifall filled procsity after filled procsity 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20	Unstatuted zone flickness The triangular distribution of 5 dm is quided but no other data are specified. This seems to suggest that it is assumed the waste is part of the unstatuted zone. This is an incorrect assumption since it is generating by the bed-size source term. The model is part of the unstatuted zone. This is an incorrect assumption since it is generating by the left part of the part of t	Unabstantial Ziron Thickness An error has been control shree. Assuming the waste (250,000 m²) is distributed evenly over an area of 4.41 hectares, an average thickness of 5.7m is estimated. However, given a fin antificially enhanced geological barrier (EACB) is to be placed at the Sils, the average thickness of waste overlying the ACBD will be strictly and the ACBD will be strictly in the Sils Silv and is comprised seen natival and according of the ACBD will be strictly in the Silv Silv and is comprised seen natival excursing originality visits. The Proposed Eads Farm Landfill Extension model is described in Section 8.5 of the report and shown graphically on the drawing in Appendix 1. As stated in Section 8.5.
Ur UZ UZ Aq Aq Aq	resturated cross thickness substanted cross period (IZP) De vertical dispersivity DP vertical dispersivity DP vertical dispersivity DP vertical dispersivity pulse thickness conductivity pulse thickness conducti	The most appropriate model set up to the combined effect of the too landfile one on top of the other would be to model the stall thicknesses of water desiring and proposed effects and grown the presence of the old pACIQ since this will be composed of the property of the	Turderlying the imported deposition (i) is, the 2 Gm of week placed in the Sales Farm Landfill (a 1.0 m obly sky vir is assumed to be placed. This is intended to be consistent with the low permentally tools yet by yet to be Sales of more of the Sales Farm Landfill (a) (ii) in the Sales Farm Landfill (a) (iii) in the Sales Farm Landfill (iii) in the sales material. Consensitively the model does not not all existing Sales Farm Landfill (iii) in the proposed AEGB varietying waste to be placed as part of the Proposed Eafer Farm Landfill Ederston. Landfill Ederston Charles (iii) in the Sales Farm Landfill Ederston Charles (iii) in the Sales Farm Landfill (iii) in the Sales Farm Landfill (iiii) in the Sales Farm Landfill (iiiii) in the Sales Farm Landfill (iiiiii) in the Sales Farm Landfill (iiiiiiii) in the Sales Farm Landfill (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii

Notes:

Revision of this report (the subject of Environment Agency (necebook) referred to the proposed additional waste as the "Tamar View Landfill". Following the meeting on Site and subsequent discussions between GCE and the Environment Agency it is now proposed that the Site's existing Environmental Permit be varied (as opposed to obtaining a new Environmental Permit). On that basis, this report refers to the additional waste being excepted at the Site's existing Environmental Permit be varied (as opposed to obtaining a new Environmental Permit). On that basis, this report refers to the additional waste being excepted at the Site's existing Environmental Permit be varied (as opposed to obtaining a new Environmental Permit). On that basis, this report refers to the additional waste being excepted at the Site's existing Environmental Permit be varied (as opposed to obtaining a new Environmental Permit). On that basis, this report refers to the additional waste being excepted at the Site's existing Environmental Permit be varied (as opposed to obtaining a new Environmental Permit). On that basis, this report refers to the additional waste being excepted at the Site's existing Environmental Permit be varied (as opposed to obtaining a new Environmental Permit).

**The Site of Site of

Tamar View Landfill Appendix C

Appendix C Exploratory Hole Logs

T	GF	7	JOHN (SIRI/	MES	5 C	onsulting Engineers	Borehole No MBH1	
			PARTN	ERS	5HIF	> w	ww.johngrimes.co.uk	Hole Type	
						_		Cable/Rota	ırv
oject Name ales Far	m						Co-ords:	Project No. 12933	
Saltas	sh						Contractor: Geologic Boreholes	Ground level:	
Down	derry Cons						Dates: 07/04/2016	Orientation: 0 Inclination: 90	
allation Water		es & Ir Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description		
	0.00 0.00-1.00 1.00	SPT B ES		1.20			MADE GROUND comprising medium dense light brov gravelly CLAY. Gravel of fine to coarse medium stron irregular mudstone and siltstone. Weak purplish brown moderately weathered slaty MU are of a weak fine to coarse GRAVEL (TORPOINT FOD Drill penetration rate rapidly reduces.	g subrounded DSTONE. Arisings	-1
3 3 3	2.00	СРТ	50 (8,9/14,14,14 ,8 for 50mm)	2.40			Rotary follow on. Constant hammer engagment with repurple and grey dust and chippings (TORPOINT FOR	eturns of MATION).	-3
									-5
									8 9
-1-12	ampleti	Туре	Results	latio : : :	antalla di Or	~~~~~	Continued next sheet	Checked By	
10mr	m gravel 11.0m - 6	.3m, sand	er and gas monitoring insta I bridge 6.3m - 6.0m, bento gravel 2.7m - 1.8m, sand b	nite seal 6.0	0m - 3.0m, s	and	Logged By MW	Checked By MO	
bento	onite seal 1.5m - 0	.3m and to	op hat cover 0.3m to 0.0m. 10.4m (MBH1-B).	Response	zones		Equipment Used: Pilcon 150 and	1:50	
	(<u>-</u>) u		,				Commachio	Sheet 1 of 2	

	J(<u> </u>)	JOHN G PARTNI					nsulting Eng w.johngrimes		ME Hole Type Cable/		
Project Na Eales		n							Co-ords:		Project No.	933	,
Location:	altash	ı							Contractor: Geologic Bo	oreholes	Ground leve	:	
		erry Const				Γ			Dates: 07/04/2016		Orientation: Inclination:	90	
e charles	Water Strikes	Depth (m)	Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	_		tratum Description			Ц
Backliii	Juline'S	Depth (m)	Type	Results	11.00			Rpi	otary follow on. Constant h urple and grey dust and ch	nammer engagment with re	eturns of MATION).		
	0		Туре	Results		-4-11				Logged By	Checked By		(2) Standard Bore
Remarks:	10mm	gravel 11.0m - 6.0 3.0m - 2.7m, clea	3m, sand	r and gas monitoring instala bridge 6.3m - 6.0m, benton gravel 2.7m - 1.8m, sand br	ite seal 6.0	m - 3.0m, s . 1 5m	and			MW Equipment Used:	Caala	MO	(Bid 426
	penton 1.8m-2	ие seal 1.5m - 0.3 .7m (МВН1-А) ar	om and to nd 7.3m -	p hat cover 0.3m to 0.0m. 10.4m (MBH1-B).	kesponse:	zones				Pilcon 150 and Commachio	Sheet 2	50 of 2	PARA SE 3

7)	JOHN G				onsulting Engineers ww.johngrimes.co.uk	MBH2 Hole Type	
								Cable/Rotar	ry
Project Name Eales Farn	n						Co-ords:	Project No. 12933	
Location: Saltash	l						Contractor: Geologic Boreholes	Ground level:	
Client: Downde	erry Cons						Dates: 07/04/2016	Orientation: 0 Inclination: 90)
nstallation Water Backfill Strikes	Sample Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description		
		71		0.35			MADE GROUND comprising medium dense light be gravelly CLAY. Gravel of fine to coarse subrounde medium strong mudstone and siltstone. Stratum of fragments of red brick.	d irregular	
Ш	1.00 1.00	CPT ES	N=17 (3,3/11,3,1,2	1.20			MADE GROUND comprising dense reddish brown Gravel of fine to coarse subrounded to subangular medium strong mudstone and siltstone. Stratum of fragments of red brick porcelain and clinker.	irregular	-1
	1.50	ES					MADE GROUND comprising soft bluish grey and of slightly sandy gravelly CLAY. Gravel of fine to coal irregular medium strong mudstone and siltstone. Successional fragments of clinker.	se subrounded	-2
	3.00	В							3
- 2.5				5.80					-5
	6.00	В		3.80			MADE GROUND comprising dense purplish brown clayey GRAVEL. Gravel of fine to coarse subangu slate and siltstone.		-7-7-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-
	9.00	В		8.50		**************************************	Weak purple weathered slaty MUDSTONE. Arising clayey weak coarse angular slate GRAVEL. Drill prapidly decreases (TORPOINT FORMATION).		9
				9.30			Rotary follow on. Constant hammer engagment wi purple and grey dust and chippings (TORPOINT F	th returns of ORMATION).	
Pamarke: On con	noletion a dual o	Type	Results er and gas monitoring instala	ation was i	nstalled Cle	an	Continued next sheet Logged By	Checked By	
10mm sand bi	gravel 26.0m - 10 ridge 7.5m - 7.0n	0.0m, sar n, clean 1	d bridge 10.0m - 9.5m, bent 0mm gravel 7.0m - 1.6m, sa	onite seal and bridge	9.5m - 7.5m 1.6m - 1.3m	,	MW Equipment Used:	MO	
	ite seal 1.3m - 0. MBH2-A) and 11.		op hat cover 0.3m to 0.0m. I 0m (MBH2-B).	Response	zones 2.6m	-	Pilcon 150 and	1:50	
							Commachio	Sheet 1 of 3	

Consider Continued Conti		J	SIF		JOHN G				onsulting Engi ww.johngrimes		MB Hole Type Cable/F	
Saltas Geologic Boreholes Patentin Chemical Che			n						Co-ords:		Project No.	-
Downderry Construction Istu Testing Lesest Parker Samples & Ris Situ Testing Depth (m) Type Results Depth (m) Reduction Proceedings Procedings Proceedings Proceedings Proceedings Procedings Procedings Proceedings Proceedings Proceedings Procedings Procedings Procedings Procedings Procedings Procedings Procedings Procedings Procedings Proce	Sa	altash							Geologic Bor	reholes	-	
Beatly State Dough (m) Type Regults (m) of AOD Page 1 Seature State of Sea	Client:	ownde	-						Dates: 07/04/2016			90
purple and grey dust and chippings (TORPOINT FORMATION). Total Properties Pr						Depth (m)	Level (m AOD)	Legend				
Remarks: On completion a dual groundwater and gas monitoring installation was installed. Clean 10mm gravel 26.0m - 10.0m, sand bridge 1.0m - 1.5m, bentonite seal 9.5m - 7.5m, sand bridge 7.5m - 7.0m, clean 10mm gravel 7.0m - 1.6m, sand bridge 1.0m - 1.6m, sand bridge 1.0m - 1.3m, sand bridge 1.0m - 1.5m, sand bridge 1.0m - 1.5m, sand bridge 1.0m - 1.3m, sand bridge 1.0									Rotary follow on. Constant ha purple and grey dust and chip	mmer engagment with repings (TORPOINT FORI	eturns of WATION).	-1: -1: -1:
Remarks: On completion a dual groundwater and gas monitoring installation was installed. Clean 10mm gravel 26.0m - 10.0m, sand bridge 1.0m - 1.5m, bentonite seel 1.5m - 7.5m, sand bridge 7.5m - 7.0m, clean 10mm gravel 7.0m - 1.6m, sand bridge 4.0m - 1.3m,												- 17
Remarks: On completion a dual groundwater and gas monitoring instalation was installed. Clean 10mm gravel 26.0m - 10.0m, sand bridge 1.0m - 10.5m, bentonite seal 9.5m - 7.5m, sand bridge 7.5m - 7.0m, clean 10mm gravel 7.0m - 1.6m, sand bridge 1.0m - 1.3m,												- 18
bentonite seal 1.3m - 0.3m and top hat cover 0.3m to 0.0m. Response zones 2.6m - 6.8m (MBH2-A) and 11.0m - 26.0m (MBH2-B). Pilcon 150 and Commachio Sheet 2 of 3		10mm g sand bi bentoni	gravel 26.0m - 10 ridge 7.5m - 7.0m ite seal 1.3m - 0.3	oundwater .0m, sand , clean 10 8m and top	r and gas monitoring instala I bridge 10.0m - 9.5m, bent Imm gravel 7.0m - 1.6m, sa o hat cover 0.3m to 0.0m. I	onite seal 9 nd bridge	9.5m - 7.5m, 1.6m - 1.3m,		Lo Ec	pgged By MW quipment Used:	Scale 1:5	50

	J	5 F)	JOHN G					nsulting Eng w.johngrimes			Hole Type	3H2	
Project N		n							Co-ords:			Project No.	/Rotar 933	У
Location:	altash								Contractor: Geologic Bo	oreholes		Ground lev	el:	
Client:	ownde	erry Const							Dates: 07/04/2016			Orientation Inclination:	90	
Installation Backfill	Water Strikes	Sample Depth (m)	s & In	Situ Testing Results	Depth (m)	Level (m AOD)	Legend		S	Stratum Des	cription			
			Туре	Results	26.00			FF	Rotary follow on. Constant I	nammer enga nippings (TOR	gment with re	MATION).		- 221 - 22 - 22 - 22 - 22 - 22 - 22 - 2
Remarks	10mm	gravel 26.0m - 10	.0m, sand	r and gas monitoring instala I bridge 10.0m - 9.5m, bent Imm gravel 7.0m - 1.6m, sa	onite seal	9.5m - 7.5m				Logged By	MW	Checked By	МО	'Bkj 426.72
	bentoni	ite seal 1.3m - 0.3 MBH2-A) and 11.0	3m and top	hat cover 0.3m to 0.0m. I	Response	zones 2.6m	-			Pilcon 150	and		:50	BASE 3.1
										Commachi	0	Sheet 3	ot 3	Hole

	= =		JOHN (onsulting Eng vw.johngrime		МВН3	
1		-			J. 10				Hole Type Cable	
Project Name							Co-ords:		Project No.	
Eales Farm	<u> </u>						- Contractor:		12933 Ground level:	_
Saltash							Geologic Be	oreholes	-	
Downde	rry Const						Dates: 14/04/2016		Orientation: 0 Inclination: 90)
stallation Water ackfill Strikes	Sample Depth (m)	s & In	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	5	Stratum Description		
	1.00	ES	N=14 (2,2/4,3,3,4)	1.20			MADE GROUND comprisin clayey GRAVEL. Gravel of tabular medium strong grey MADE GROUND comprisin occasionally sandy GRAVE irregular weak purple slaty	fine to coarse medium stropy mudstone and siltstone. g medium dense light grey L. Gravel of fine to coarse	ng subrounded	-1
	3.00 3.00	B ES								-3
	7.00 7.00	B ES		6.50			MADE GROUND comprisin with occasional cobbles. Gr cubic strong geen and blue	avel of fine to coarse subr		-5677
	pletion a ground 2m - 10.3m, san	Type water and	Results d gas monitoring instalati 10.3m - 10.00m, clean 10	8.80	lled. Bentonit 0.0m - 1.6m,		MADE GROUND comprisin fine to coarse subangular ir (stratum interpreted as rew	regular weak purple slaty i	mudstone	- 9
seal 12.	2m - 10.3m, sand	n, benton	ite seal 1.3m - 0.3m and	mm gravel 1 top hat cove	10.0m - 1.6m, r 0.3m to 0.0r	m.		Equipment Used:	Caala	\dashv
sand brid	se zone 2.7m - 9	.85m (M	1BH3-A).					1	1:50	

) (JOHN (75 May 1	onsulting Eng ww.johngrime:		MBH	ł3
		-	I-/~I-\ I I N	=1-	21 111		ww.joiniginne.	s.co.uk	Hole Type Cable	
Project Name Eales Farr	.						Co-ords:		Project No.	
Location:							Contractor:		Ground level:	3
Saltash	1						Geologic Bo	oreholes	- Orientation:	
	erry Const						Dates: 14/04/2016		Orientation: Inclination:	90
Installation Water Backfill Strikes	Depth (m)	Туре	Situ Testing Results	Depth (m)	Level (m AOD)	Legend		Stratum Description		
	10.00 10.00	B ES B		11.30			MADE GROUND comprisin fine to coarse subangular ir (stratum interpreted as rewell as the stratum interpreted as rewell as the stratum strong purple mode Arisings are of a slightly clared (TORPOINT FORMATION)	orked site derived natural of the control of the co	ground). JDSTONE.	-111
										- 13 - 13 14 - 14 15 15
										- - - 16 - - - - -
										- 17
										- -18 - - - - -
		Туре	Results							60 May 11,127 Baseb Z Noon all Boretole Loo v. 2 dated 2111 Nov 011111
seal 12	2.2m - 10.3m, san	water and d bridge 10	gas monitoring instalation 0.3m - 10.00m, clean 10m	ım gravel 10	0.0m - 1.6m	,		Logged By MW	Checked By	721.5
sand b		n, bentonite	e seal 1.3m - 0.3m and to					Equipment Used: Pilcon 150	Scale 1:50	9
									Sheet 2 of 2	2

Borehole No

	31		NHOL	GRI	MES	Consulting Engineers	Borehole No
Je	315	2	PARTN			www.johngrimes.co.ul	
		<u> </u>	1-7-1-7 11 1	LIX.	JI 1111-	www.joiniginnes.co.u	Hole Type
Name						Co cudo:	Cable
es Farm						Co-ords:	Project No. 12933
on:						Contractor:	Ground level:
Saltash						Geologic Boreholes	-
Downder	rry Cons	tructio	on Ltd			Dates: 07/04/2016	Orientation: 0 Inclination: 90
on Water			Situ Testing	Depth (m)	Level (m AOD)	nd Stratum Des	scription
Strikes	0.50 0.50 1.20	B ES	Results N=18 (1,2/3,3,5,7)	0.90		MADE GROUND comprising medium de gravelly CLAY. Gravel of fine to coarse i irregular mudstone and siltstone. Stratur fragments of red brick. MADE GROUND comprising dense purp clayey GRAVEL. Gravel of fine to coarse slate and siltstone.	ense light brown slightly sandy medium strong subrounded in contains occasional
	3.00	В					
	7.50	ES					
				9.50		Medium strong purple weathered slaty N clayey fine to coarse GRAVEL (TORPO)	IUDSTONE. Arisings are of a NT FORMATION).
seal 11.0)m - 8.5m, sand	d bridge 8	Results Id gas monitoring instalatic 3.5m - 8.2m, clean 10mm g al 1.7m - 0.3m and top ha	gravel 8.2m -	 2.0m, sand 	Continued nex Logged By	

Satisfies Caecing Construction Ltd Cates O7/04/2016 Caecing One-station: One-stati		GP	DA DANG				onsulting Eng		МВІ	1 4
Type Results Constants Continuent Conti			I-MIK I IVI	=1~=	רוורוכ	WW	w.jonngrimes	s.co.uk		
Saltash Controll Geologic Boreholes Controll Geologic Boreholes Controll Geologic Boreholes Controll Control	Desirat Name						T			le
Saltash Consider Geologic Boreholes Constance Downderry Construction Ltd Downs Samples & In Situ Testing Dought (m) Type Results Results Dou		m					Co-ords:			33
Downstruction Ltd Samples & in Situ Testing Doyn Type Results Type Typ	Location:						Contractor:			
Downderty Construction Ltd System Significant System Significant System Significant System System Significant System System Significant System System Significant System Syst	Saltas	h					Geologic Bo	oreholes	-	
Solves Depth (m) Type Results (m) (m) (m AOD) (-Solves) Stratum Descriptors and Medium strong purple weathered asky MUDSTONE. Artangs are of a clayery fine to coatse GRAVEL (TORPOINT FORMATION) Find of Boerboe at 11.80 m.	Client: Down	-					Dates: 07/04/2016			0 90
Type Results Type Results Total of Southfall Br. Type Results Type Results Type Results		Samples & Depth (m) Typ	In Situ Testing Results	Depth (m)	Level (m AOD)	egend	S	tratum Description		
On completion a groundwater and are monitoring installation was installed Rentonite.		Depart (III) Type			***				Arisings are of a ION).	- 12 - 13 - 13 - 13 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15
On completion a groundwater and are monitoring installation was installed Rentonite.		Tun	Dogulto							
	Remarks: On co	ompletion a groundwater	and gas monitoring instalation	was installe	ed. Bentonite			Logged By MW	Checked By	-
seal 11.0m - 8.5m, sand bridge 8.5m - 8.2m, clean 10mm gravel 8.2m - 2.0m, sand bridge 2.0m - 1.7m, bentointie seal 1.7m - 0.3m and top hat cover 0.3m to 0.0m. Response zone 3.0m - 7.7m (MBH4-A).	bridge	e 2.0m - 1.7m, bentonite	seal 1.7m - 0.3m and top hat c	over 0.3m t	2.0111, Sand o 0.0m.				Caala	
Pilcon 150 Pilcon 150 Sheet 2 of 2	ТСОР							Pilcon 150		

Borehole No

t Name es Farn	1						Co-ords:		Project No. 12933
_{n:} Saltash							Contractor: Geologic Boreholes		Ground level:
Downde	erry Cons						Dates: 08/04/2016		Orientation: 0 Inclination: 90
tion Water I Strikes	Sample Depth (m)	es & In Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	Stratum Descr	iption	
	2.00 2.00 3.00 3.60 4.10 5.00	B ES ES B B CPT	N=41 (8,17 for 55mm/9,6,20,6)	3.50 4.00 4.20			MADE GROUND comprising medium dense Gravel of fine to coarse subrounded irregulation and siltstone. Stratum contains of brick, concrete, plastic and tile. MADE GROUND comprising medium dense with occasional cobbles. Gravel of fine to cubic strong limestone and crushed concrete of fine to coarse subrounded irregular medistiltstone. MADE GROUND comprising medium dense with occasional cobbles. Gravel of fine to coubic strong limestone and crushed concrete of fine to coarse subrounded irregular medistiltstone. MADE GROUND comprising dense very classifications of fine to coarse subrounded irregular medium dense of fine to coarse subrounded irregular medical purple slaty mudstone.	ar medium poccasional processional processio	very sandy GRAVEL ngular y GRAVEL. Gravel mudstone and very sandy GRAVEL ngular y sandy GRAVEL. strong
13.5		Type	Results	1		^^XX	Continued next sh	neet	

Ų	10)	D NHOL			100		nsulting Eng		Borehole N	BH5	
	/\			PARTN	ERS	5141F) ı	ww\	w.johngrimes	s.co.uk	Hole Type		\dashv
							_					able	
Project N		_							Co-ords:		Project No.		
Eales		1							Contractor		Ground lev	2933	4
	altash								Contractor: Geologic Bo	oreholes	Ground lev	ei. -	
Client:	ownde	erry Const							Dates: 08/04/2016		Orientation Inclination:		
Installation Backfill	Water Strikes			Situ Testing	Depth (m)	Level (m AOD)	Legen	nd	S	Stratum Description			
Backfill	Strikes	Depth (m)	Туре	Results	16.30			N si	MADE GROUND comprising ilty clayey sandy GRAVEL. redominantly medium angulaty mudstone.	g dense light yellowish bro Cravel of fine to coarse ular irregular weak to med d pieces of concrete.	ium strong	grey	11 12 13 13 14 15 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Remarks	On con	npletion a ground gravel 16.3m - 1.i cover 0.3m to 0.i	water and 6m, sand 0m Rest	d gas monitoring instalation bridge 1.6m - 1.3m, benton bonse zone 2.6m - 13.6m (N	was install ite seal 1.3 //BH5-A\	ed. Clean 3m - 0.3m ar	nd			Logged By MW	Checked By	MO	9ld 426 7
	wp nat	55761 0.5HI to 0.1	-111. IXES	20.130 20110 2.0111 - 10.0111 (N						Equipment Used: Pilcon 150	Scale 1	:50	SF 3 1 0
										1.2.0	Sheet 2	of 2	HoleBA

10	d:		NHOL	GRI	MES		onsulting Engineers	MBH6
			PARTN	IER:	SHIF	W	ww.johngrimes.co.uk	
						_		Hole Type Cable
ct Name							Co-ords:	Project No.
es Farr	n						-	12933
_{tion:} Saltash	1						Contractor: Geologic Boreholes	Ground level:
t: Downd	erry Cons	tructio	on I td				Dates: 06/04/2006	Orientation: 0 Inclination: 90
ation Water	Sample	es & Ir	Situ Testing	Depth	Level	Legend	I	memation. 90
	2.00 ES 4.00 CPT	ES	Results N=4 (1,1/1,1,1,1)	2.00	Level (m AOD)	Legend	Stratum Description MADE GROUND comprising dense light grey slig GRAVEL. Gravel of fine to coarse subrounded to irregular medium strong mudstone, siltstone, qua contains occasional fragments of red brick and material materials. MADE GROUND comprising dense light grey ver supported GRAVEL varying to a soft very gravelly fine to coarse subrounded to subangular irregular mudstone, siltstone, quartzite. Stratum contains of fragments of red brick.	subangular rtzite. Stratum acadam. y clayey matrix r CLAY. Gravel of
rks: On co	7.00 8.00	ES CPT	N=35 (4,8/11,10,7, 7) Results d gas monitoring instalation	6.00	led. Clean		MADE GROUND comprising dense light grey slig occasionally very clayey sandy GRAVEL with frag	Thecked By
ks: On co	mpletion a ground gravel 15.0m - 2.	lwater an 0m, sand	d gas monitoring instalation bridge 2.0m - 1.7m, bent	on was instal	led. Clean 7m - 0.3m and	ı	MW	MO
юр па	t cover u.am to U.	uiii. Kes	ponse zone 3.0m - 14.65	π (ινιΒΠό-Α).			Equipment Used: Pilcon 150	Scale 1:50
							. 10011 100	Sheet 1 of 2

	2	SAF		IOUNI COMACC						Borehole No		
1		FIE		JOHN (75	Consulting Engineers www.johngrimes.co.uk		M	BH6	
R				1-741-7 111		יוורוכ		ww.joinigiinies.co.uk		Hole Type		
Project N	lame							Co-ords:		Project N	cable 	\dashv
	Farn	n						-		1	2933	_
Location S	: altash	l						Contractor: Geologic Boreholes		Ground le	vel:	
Client:	ownde	erry Const	tructio	on Ltd				Dates: 06/04/2006		Orientatio	•	
Installation	Water	Sample	es & Ir	Situ Testing	Depth	Level	Legend		rintion		. 30	\forall
Installation Backfill	Water Strikes	Sample Depth (m) 10.00 11.00 15.00 15.	ES CPT	N=18 (3,7/10,3,3,2)	Depth (m) 11.00	Level (m AOD)	Legend	MADE GROUND comprising dense light g occasionally very clayey sandy GRAVEL was without the occasionally very sandy GRAVEL. Gravel occasionally very sandy GRAVEL. Gravel occasional fragular weak to medium strougartzite. Stratum contains occasional framacadam and wood. End of Borehole at 1	luish grey sa of fine to co ng mudston gments of b	andy very clarse e siltstone a	ayey	-11 -12 -13 -14 -17
												- Gran
Remarks	On cor	npletion a ground	Type	Results d gas monitoring instalation bridge 2.0m - 1.7m, bento	on was install	led. Clean	nd.	Logged By	MW	Checked By	MO	
	top hat	cover 0.3m to 0.	om. Res	sponse zone 3.0m - 14.65r	n (MBH6-A).	ını - u.əm ar	iu	Equipment Used:	VIVV	Scale	1:50	
								Pilcon 150		Sheet		

	J	5 -)	JOHN G			75 10	onsulting Engineers ww.johngrimes.co.uk	Borehole No MBH7 Hole Type
									Cable/Rotary
Project N	lame S Farn	า						Co-ords:	Project No. 12933
Location:								Contractor: Geologic Boreholes	Ground level:
Client:	ownde	erry Const	tructio	on Ltd				Dates: 06/04/2016	Orientation: 0 Inclination: 90
nstallation Backfill	Water Strikes	Sample Depth (m)	es & Ir	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description	
		1.00	ES					MADE GROUND comprising light brown very clays matrix supported GRAVEL varying to a soft to firm very gravelly CLAY. Gravel of fine to coarse subar weak slaty mudstone and siltstone.	slightly sandy
		3.00 3.00	CPT B	N=8 (8,6/3,2,2,1)	1.70			MADE GROUND comprising dense light greenish gravelly sandy CLAY. Gravel of fine to coarse wear irregular slaty mudstone and siltstone.	
		5.00	В		4.50			MADE GROUND comprising dense purplish brown slightly gravelly CLAY. Gravel of fine to coarse subtraction weak slaty mudstone and siltstone.	n slightly sandy hangular
					5.60 5.80			Weak purplish brown highly to completely weather MUDSTONE. Arisings are of a slightly gravelly CL weak fine to coarse angular irregular slaty mudsto becomes increasingly gravelly with depth (TORPC	AY. Gravel of ne. Stratum
					6.40			Medium strong purplish brown moderately weathe are of a slightly clayey sandy fine to coarse GRAV FORMATION). Drill penetration rate rapidly reduces. Rotary follow on. Constant hammer engagment wi purple and grey dust and chippings (TORPOINT F	EL (TORPOINT th returns of
				David					-8 8
Remarks	On com	npletion a dual gravel 17.0m - 7	Type oundwat 0m. sand	Results er and gas monitoring instala I bridge 7.0m - 6.6m, benton	ation was i	nstalled. Cle	ean and	Continued next sheet Logged By MW	Checked By MO
	bridge 4 bentoni	4.5m - 4.2m, clea te seal 1.3m - 0.	an 10mm 3m and to	gravel 4.2m - 1.6m, sand brop hat cover 0.3m to 0.0m.	ridge 1.6m	- 1.3m,		Equipment Used:	Scale 1:50
	4.0m (N	/IBH7-A) and 7.3	im - 16.8r	т (МВН1-В).				Pilcon 150 and Commachio	Sheet 1 of 2

)(SIF		JOHN G PARTNE				Consulting En ww.johngrim	•	MBH7 Hole Type	
Project Name							Co-ords:		Cable/Rotal Project No.	ry
Eales Farr	n						- Contractor:		12933 Ground level:	\dashv
Saltash	1						Geologic	Boreholes	-	
Client: Downd	erry Const						Dates: 06/04/20	16	Orientation: 0 Inclination: 90	
Installation Water Backfill Strikes	Sample Depth (m)	s & In S Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend		Stratum Description		
Remarks: On col		Type	Results and gas monitoring instala	17.00	nstalled. Clear	an	Rotary follow on. Consta purple and grey dust and	End of Borehole at 17.00 m	Checked By	11 12 13 13 14 15 16 17 17 18 18 19 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19
bridge	4.5m - 4.2m, clear	n 10mm gr	and gas monitoring instala ridge 7.0m - 6.6m, bentoni avel 4.2m - 1.6m, sand bri	dge 1.6m ·	- 1.3m,			Logged By MW Equipment Used:	MO	1 (Bld 426
bentor 4.0m (ite seal 1.3m - 0.3 MBH7-A) and 7.3n	n - 16.8m (hat cover 0.3m to 0.0m. F MBH1-B).	xesponse:	ZUNES Z.6M	-		Pilcon 150 and Commachio	1:50 Sheet 2 of 2	JeBASE 3
									550. 2 0. 2	H

E	J	SF)	JOHN G				Consulting Engineers www.johngrimes.co.uk	
							V	Cable	4
Project N Eales		n						Co-ords: Project No. 12933	
Location:	altash							Contractor: Geologic Boreholes Ground level: -	
Client:	ownde	erry Const						Dates: Orientation: 0 Inclination: 90	
Installation Backfill	Water Strikes	Sample Depth (m)	Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	Stratum Description	١
	Su mes	1.00 1.00	B ES	Results	2.10			MADE GROUND comprising medium dense light grey slightly clayey sandy GRAVEL. Gravel of fine to coarse subrounded to subangular irregular medium strong grey slaty mudstone, siltstone. Weak purple slaty MUDSTONE. Arisings are of a slightly clayey fine to coarse weak angular irregular slaty mudstone gravel (TORPOINT FORMATION). End of Borehole at 2.90 m	1 2 3 4 5 6 7 8 9
			Туре	Results					Standard Do
Remarks	I :		ıyµ⊎	Negulla		<u>I</u>	1	Logged By MW Checked By MO	0.02.00
								Equipment Used: Scale 1:50	2 t c l c l c l c l c l c l c l c l c l c
								Sheet 1 of 1	golon

		O	JOHN PARTN				onsulting Eng w.johngrime		MBH9)
		-	E74511		21 111]	, w.,joini.g.	o.oo.an	Hole Type Cable	
oject Name							Co-ords:		Project No.	
ales Farm	1						- Contractor:		12933 Ground level:	
Saltash							Geologic Bo	oreholes	-	
ent: Downde	erry Cons				1		Dates: 13/04/2016			0
allation Water ckfill Strikes	Depth (m)	Type	Results	Depth (m)	Level (m AOD)	gend	8	Stratum Description		
	2.00 2.00 3.00	B ES	N=6 (1,1/1,1,2,2)	3.00			MADE GROUND comprisin sandy clayey GRAVEL. Grasubangular grey slaty muds Occasional fragments of the comprisin GRAVEL. Gravel of fine to compedium strong grey mudstons.	avel of fine to coarse subrostone and siltstone. If red brick and macadam g medium dense light gregoarse subrounded tabula	y sandy very clayey	-11
	5.00 5.00	B ES	N=7 (2,2/2,1,2,2)	6.00			Occasional fragments o MADE GROUND comprisin clayey GRAVEL. Gravel of the	g dense light brown slight fine to coarse subangular	ly sandy very irregular	
	7.00 7.00	B ES					moduli otorg groy madec			
				9.00			MADE GROUND comprisin Gravel of fine to coarse and mudstone (stratum interpret ground)	gular irregular weak purple	slaty	
		Туре	Results	_		XXX		Continued next sheet	Charles 1 D	
seal 13.	3m - 11.0m, sa	and bridge	d gas monitoring instalati 11.0m - 10.7m, clean 10r ite seal 1.3m - 0.3m and t	nm gravel 10).7m - 1.6m,			Logged By MW	Checked By MO	
sand hr	luge Lom- L	IIII, DELIILIII						Equipment Used:	Scale 1:50	

	GF	O	JOHN PARTN				onsulting Eng		MBH9		
	30.00				E. (V		,		Hole Type Cab	nle	
Project Nam							Co-ords:		Project No.		
Eales F	-arm						Contractor		129	33	
Salt	ash						Contractor: Geologic B	oreholes	Ground level:		
Client: Dov	vnderry Con				1		Dates: 13/04/2016	i	Orientation: Inclination:	0 90	
	rikes Depth (m)		Results	Depth (m)	Level (m AOD)	Legend		Stratum Description			
	10.00 10.00 10.00	Type CPT B ES	N=16 (2,3/3,3,4,6)	12.00			MADE GROUND comprisin Gravel of fine to coarse any mudstone (stratum interpre ground) Medium strong purple mod Arisings are of a slightly cla (TORPOINT FORMATION)	g dense purple slightly cla gular irregular weak purple ted as reworked site deriv erately weathered slaty M tyey sandy fine to coarse	e slaty ed natural		
		Туре	Results	\perp				T			
S	eal 13.3m - 11.0m, s	and bridge	d gas monitoring instalati	mm gravel 10).7m - 1.6m,			Logged By MW		ЛО	
	and bridge 1.6m - 1. Response zone 2.6m		ite seal 1.3m - 0.3m and i BH9-A).	iop nai cover	บ.จเท เป บ.ปเ	ш.		Equipment Used: Pilcon 150	Scale 1:5	0	
									Sheet 2 o	f 2	

)()	JOHN (75. 10	onsulting Eng vw.johngrimes		MBH' Hole Type	
Project Name							Co-ords:		Cable Project No.	
Eales Farr	n ———						- Contractor:		12933 Ground level:	3
Saltash	1						Geologic Bo	oreholes	-	
Client: Downd	erry Const				1		Dates: 13/04/2016		Orientation: Inclination:	0 90
Installation Water Backfill Strikes	Depth (m)	Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend		tratum Description		
	2.00 2.00 2.00 4.00	B ES	N=4 (2,2/1,1,1,1)	5.50			MADE GROUND comprising GRAVEL. Gravel of fine to control of the strong grey mudstone and stragments of macadam. Pieces of concrete Stratum occasionally beautiful development of the stratum occasionally beautiful development of the strong limestone mixed with occasional medium strong siltstone. Stratum contains poince.	g medium dense light brovoarse subrounded irregulilitstone. Stratum contains comes very clayey g dense light brownish great of fine to coarse subang light grey building sand a subrounded irregular mude ubrounded irregular mude	ey slightly clayey ular irregular ind etone and	-1 -2 -3 -47899
7.4		Туре	Results					Continued next sheet	Ta.	_
seal 16 sand b	6.7m - 15.0m, sar oridge 1.6m - 1.3n	nd bridge n, bentoni	d gas monitoring instalatior 15.0m - 14.7m, clean 10m te seal 1.3m - 0.3m and to	n gravel 14	.7m - 1.6m,			Logged By MW Equipment Used:	Checked By MC)
Respo	nse zone 2.6m -	14.35m(MBH10-A).					Pilcon 150	1:50 Sheet 1 of 2	
									Sneet 1 of 2	

11	2	SAF		10111			- 1	O 4! F	•	Borehole No	
	116			JOHN 6				Consulting Eng		MBH10)
				PARTN	ERS	5HIF	> N	www.johngrimes	s.co.uk	Hole Type	-
							_			Cable	
Project N								Co-ords:		Project No.	
Eales		1						-		12933	
Location:	altash							Contractor: Geologic Bo	oreholes	Ground level:	
Client:								Dates:		Orientation: 0	
		erry Const		on Ltd Situ Testing	I			13/04/2016		Inclination: 9(
nstallation Backfill	Water Strikes	Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	S	tratum Description		Ш
Remarks	On con	12.00 13.00 15.00 15.00	B ES B ES	N=12 (1,2/2,3,3,4) Results d gas monitoring instalation	14.00	ed. Bentonii	le le	MADE GROUND comprising sandy very clayey GRAVEL, irregular weak purple slaty in reworked site derived natural.	g medium dense light purp Gravel of fine to coarse so all ground).	gravel and lish brown slightly ubangular ted as	111 12 13 14 15 16 17 17 18 17 18 17 19 19 19 19 19 19 19 19 19 19 19 19 19
remarks:	seal 16 sand bi	.7m - 15.0m, san idge 1.6m - 1.3m	nd bridge n, bentoni	15.0m - 14.7m, clean 10mr te seal 1.3m - 0.3m and top	n gravel 14	.7m - 1.6m,			MW	MO	(BH 426
	Respor	se zone 2.6m - 1	14.35m (I	MBH10-A).					Equipment Used: Pilcon 150	1:50	4 0 0 0 0 0 0
										Sheet 2 of 2	H do d

7	JGP JOHN GRIM						A SECTION OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDR				
									Cable/Rota	ıry	
Project Name Eales Farn	า						Co-ords:		Project No. 12933		
Location: Saltash							Contractor: Geologic Boreholes		Ground level:		
	erry Const			I			Dates: 11/04/2016-14/04/2016		Orientation: 0 Inclination: 9(
nstallation Water Backfill Strikes	Depth (m)	Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	Stratum Descripti	on			
	0.50	ES		1.50			MADE GROUND comprising medium dense lictly clayey GRAVEL. Gravel of fine to coarse subringery mudstone and siltstone. Stratum contains fragments of red brick, concrete macadam and MADE GROUND comprising medium dense lictly.	ounded s occasion d metal.	to subangular onal	-1	
	2.00 2.00	ES B		3.00			clayey GRAVEL with cobbles. Gravel of fine to irregular medium strong grey mudstone and si contains occasional fragments of red brick, cometal.	Itstone. ncrete, _I	Stratum plastic and	-2	
	3.50		N=10 (2,3/2,2,3,3)				MADE GROUND comprising medium dense lig GRAVEL with occasional fragments of macada concrete. Gravel of fine to coarse subrounded strong grey mudstone and siltstone.	am red l	brick and	-	
	4.00 4.00	ES B								-4-	
	6.00 6.00	ES B		5.50			MADE GROUND comprising dense light grey GRAVEL. Gravel of fine to coarse angular irre slaty mudstone (stratum interpreted as rework natural ground)	gular we	eak purple	-6	
				6.40 6.60			Medium strong purple moderately weathered s Arisings are of a slightly clayey sandy fine to c (TORPOINT FORMATION). Rotary follow on. Constant hammer engagmer purple and grey dust and chippings (TORPOIN	oarse g	ravel/ eturns of	-7	
10mm g sand br bentoni	gravel 15.27m - 7 idge 5.7m - 5.5r	7.5m, san m, clean 1 3m and t	Results er and gas monitoring instal d bridge 7.5m - 7.2m, bente 0mm gravel 5.5m - 1.6m, s op hat cover 0.3m to 0.0m. 2m (MBH11-B).	onite seal 7 and bridge	'.2m - 5.7m, e 1.6m - 1.3m	٦,	Continued next sheet Logged By MV Equipment Used: Pilcon 150 and Commachio		Checked By MO Scale 1:50 Sheet 1 of 2	-9	

Project Name Eales Farm Location: Saltash Contractor: Geologic Boreholes Client: Downderry Construction Ltd Dates: Downderry Construction Ltd Contractor: 11/04/2016-14/04/2016 Crienta 11/04/2016-14/04/2016	12933 level: -	
Saltash Client Downderry Construction Ltd Distance of the property of the p	- tion: 0	
Downderry Construction Ltd 11/04/2016-14/04/2016 Inclination	tion: 0 on: 90	
Backtil Strikes Depth (m) Type Results (m) (m AOD) Legend Stratum Description Rotary follow on. Constant hammer engagment with returns of purple and grey dust and chippings (TORPOINT FORMATION).	-	-
purple and grey dust and chippings (TORPOINT FORMATION).	-	
Remarks: On completion a dual groundwater and gas monitoring installation was installed. Clean Logged By ANA Checked B		111 12 13 13 14 15 15 16 17 17 18 17 18 17 19 17 17 17 17 17 17 17 17 17 17 17 17 17
Remarks: On completion a dual groundwater and gas monitoring instalation was installed. Clean 10mm gravel 15.27m - 7.5m, sand bridge 7.5m - 7.2m, bentonite seal 7.2m - 5.7m, sand bridge 5.5m - 1.6m, sand bridge 1.6m - 1.3m, bentonite seal 1.3m - 0.3m and top hat cover 0.3m to 0.0m. Response zones 2.6m -	•	
5.35m (MBH11-A) and 8.5m - 15.2m (MBH11-B). Pilcon 150 and Commachio Shee	MO 1:50	

10	SIE		NHOL		AND REPORT OF	Consulting Engineers	MBH12
		41	PARTN		רוורוכ	www.johngrimes.co.uk	Hole Type
roject Name						Co-ords:	Cable Project No.
Eales Farr	n					-	12933
ocation: Saltash	1					Contractor: Geologic Boreholes	Ground level:
lient: Downd	erry Cons					Dates: 13/04/2016	Orientation: 0 Inclination: 90
stallation Water ackfill Strikes	Sample Depth (m)	es & Ir	Results	Depth (m)	Level (m AOD) Legen	Stratum Description	
	/	71		0.20		MADE GROUND comprising soft light brown grav	
	1.00 1.00	B ES		1.80		MADE GROUND comprising medium dense light very sandy GRAVEL. Gravel of fine to coarse sub medium strong mudstone and siltstone. Stratum of fragments of red brick.	angular irregular contains occasional contains
	3.00 3.00 3.00	CPT B ES	N=8 (2,2/2,1,2,3)	1.50		MADE GROUND comprising medium dense light sandy to sandy clayey occasionally very clayey G fine to coarse subrounded tabular medium strong siltstone and occasional subrounded irregular we mudstone.	RAVEL. Gravel of mudstone and
						Occassional fragments of red brick, macadam	and concrete
	6.00	ES		5.50		MADE GROUND comprising medium dense light clayey very sandy GRAVEL. Gravel of fine to coa irregular medium strong slaty mudstone and siltst Occasional pieces of macadam	rse subangular
	7.00	CPT	N=9 (3,2/3,2,2,2)				- - - - - - - - - -
	8.00	В					- - - - - - - - - - - - - - - - - - -
		Туре	Results			Continued next sheet	
seal 11	1.4m - 9.5m, sand	dwater an	d gas monitoring instalation	gravel 9.2m -	 1.6m, sand 	Logged By MW	Checked By MO
	1.6m - 1.3m, ber nse zone 2.6m -		al 1.3m - 0.3m and top ha BH12-A).	cover 0.3m	to U.UIII.	Equipment Used: Pilcon 150	Scale 1:50
							Sheet 1 of 2

			JOHN (onsulting Eng		MBH	12
		Ξ,	PARTN			Jw	ww.johngrimes	s.co.uk	Hole Type	
Project Name						4	Co-ords:		Cabl Project No.	e
Eales Farr	n						-		1293	3
Location: Saltash	1						Contractor: Geologic Bo	oreholes	Ground level:	
Client: Downd	erry Cons	tructio	n Ltd				Dates: 13/04/2016		Orientation: Inclination:	0 90
Installation Water Backfill Strikes		Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	5	Stratum Description		
Dackiii Guines	10.00	ES	Results	(11)	(III / IOD)		MADE GROUND comprising clayey very sandy GRAVEL irregular medium strong sla	•	yish brown very subangular	-
				10.80			Medium strong purple mode Arisings are of a slightly cla (TORPOINT FORMATION).	yey sandy fine to coarse g	JDSTONE. gravel	-11
							Er	d of Borehole at 11.40 m		- - - 12
										- - - - 13
										- - - - - 14
										- - - - - 15
										- - - - 16
										- - - 17 - -
										- - - 18
										- - - - - 19 -
		Туре	Results							- 19
seal 11	1.4m - 9.5m, sand	d bridge 9.	d gas monitoring instalation 5m - 9.2m, clean 10mm gr	avel 9.2m -	1.6m, sand	te		Logged By MW	Checked By	0
Bridge Respo	1.6m - 1.3m, ber nse zone 2.6m -	nonite sea 9.0m (MBI	ll 1.3m - 0.3m and top hat (H12-A).	over u.3m	ιυ υ.UM.			Equipment Used: Pilcon 150	Scale 1:50)
									Sheet 2 of	2

Borehole No

9					D -	-1-1	Borehole No.			
	aeo consultina					RO	rend	ole Log	BH13	
	engineering Itd				Project No.		Ī		Sheet 1 of 2 Hole Type	
Projec	t Name:	Eales Fa	arm Laı	aatiii	GCE00692		Co-ords:	241231E - 60386N	ВН	
Locati	on:	Eales Fa	arm, Ta	mar View Industria	al Estate, Salta	sh	Level:		Scale 1:50	
Client:		Burcoml	be Hau	lage			Dates:	18/08/2016	Logged By RA	′
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
vveil		Depth (m) 0.50 1.50 1.50 1.50 2.20 2.90 3.00 3.30 4.10 4.50 5.00 5.00 6.00 6.00 6.40	Type D D D D	Results N=14 (4,3/3,3,3,5,5,1,1,1,2) N=5 (1,3/1,1,1,2) N=10 (2,1/2,4,2,2,1,2,2,1,2,2,1,2,2,1,2,2,2,1,2	(m) 0.10 0.65 2.00 2.60 3.10 3.70		Legend	MADE GROUND comprising weeds ow brown slightly sandy gravelly CLAY with rootlets. Gravel comprises angular mud (LANDFILL WASTE). MADE GROUND comprising firm to stif slightly sandy very gravelly CLAY with sorganic matter. Gravel comprises angul and slitstone and occasional brick fragn abundance of black top and clinker betward 0.95m (LANDFILL WASTE). MADE GROUND comprising brown (looyellow) medium dense slightly clayey slighavel. Gravel comprises angular plawak mudstone and siltstone. Occasion of black top and organic matter (LANDFMADE GROUND comprising soft to firm sandy very gravelly CLAY tending to slighavery clayey GRAVEL. Gravel comprises platey mudstone. Concrete and black to from 2.3m to 2.5m (LANDFILL WASTE) MADE GROUND comprising soft wet by sandy gravelly (locally very gravelly) CL occasional organic matter (roots). Gravangular to subangular siltstone and musome brick fragments (LANDFILL WASTE) MADE GROUND comprising soft to firm sandy very gravelly CLAY with occasion fragments. Gravel comprises angular musubangular quartz and sandstone (LANWASTE). MADE GROUND comprising firm purple CLAY tending to very clayey GRAVEL. comprises angular platey mudstone (in orientation). Metal wire at 4.3m (LANDFILL WASTE). MADE GROUND comprising soft to firm brown slightly gravelly CLAY with some croots). Gravel comprises angular to su platey weak mudstone. Possible tree trunk/br (LANDFILL WASTE). MADE GROUND comprising soft to firm brown slightly gravelly CLAY with some croots). Gravel comprises angular to su platey weak mudstone. Possible relic to (LANDFILL WASTE).	a abundant listone If light brown some roots and lar mudstone ments. High ween 0.65m cally stained lightly sandy stey extremely hal fragments FILL WASTE). The brown slightly gotty so of angular pop fragments of angular pop fragments lightly sandy so of angular pop fragments lightly sandy so for angular pop fragments lightly hall plastic lightly hall plastic lightly hall plastic lightly hall plastic lightly sandy so of angular poponial plastic lightly hall plastic l	3 3 5 7 7
		7.30 7.50	D	N=24 (5,5/5,5,7,7)	7.50		* X * * * * * * * * * * * * * * * * * *	extremely weathered very weak MUDS Fracture predominantly at 30° (TORPO FORMATION). Medium strong distinctly weathered closm MUDSTONE (TORPOINT FORMATION)	INT sely fractured	- - - - - -
		8.20		N=64 (6,11/15,17,17,15	8.20			Arisings of fine purple dust with clast of MUDSTONE (TORPOINT FORMATION		8
								Continued on Next Sheet		10 —

Groundwater was encountered at 5.6m. Dynamic sampling hit refusal at a depth of 8.2m, the borehole was continued by rotary open hole drilling and the arising were logged. Borehole infilled with bentonite from base to 6.5m, gravel and slotted 50mm standpipe from 6.5m to 1.0m, and bentonite with plain 50mm standpipe from 1.0m to ground level.



	(g))				Borehole No.				
	000000000					Bo	reho	ole Log	BH13	,
	geo consulting engineering Itd							3	Sheet 2 of	2
Projec	t Name:	Eales Fa	arm Lan	ndfill	Project No. GCE00692		Co-ords:	241231E - 60386N	Hole Type BH	е
₋ocati	on:	Eales Fa	arm, Tar	mar View Industri	al Estate, Salta	sh	Level:		Scale 1:50	
Client:		Burcom	be Haul	age			Dates:	18/08/2016	Logged B RA	У
Well	Water Strikes			Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	on	
		Depth (m)	Туре	Results		,				-
										_
										-
										=
					11.20					11 -
					11.20			End of Borehole at 11.20	00m	-
										-
										12 —
										12 -
										-
										13 —
										_
										_
										14
										-
										-
										_
										15 —
										-
										=
										16 —
										-
										_
										_
										17 —
										_
										-
										-
										18 —
										-
										-
										19 —
										_
										=
										20 —
			1			I	1 1			

Groundwater was encountered at 5.6m. Dynamic sampling hit refusal at a depth of 8.2m, the borehole was continued by rotary open hole drilling and the arising were logged. Borehole infilled with bentonite from base to 6.5m, gravel and slotted 50mm standpipe from 6.5m to 1.0m, and bentonite with plain 50mm standpipe from 1.0m to ground level.



	····(g))				Borehole No.				
	000000000000000000000000000000000000000					Bo	reho	ole Log	BH14	
	geo consulting engineering Itd						1		Sheet 1 of	
Projec	t Name:	Eales F	arm Lar	ndfill	Project No. GCE00692		Co-ords:	241271E - 60404N	Hole Type BH	
Locati	on:	Eales F	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:50	
Client:		Burcom	be Hau	lage			Dates:	18/08/2016	Logged By RA	′
Well	Water Strikes	•		n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
		0.40 1.20 1.40	D D	Results	0.90			MADE GROUND comprising dense br sandy GRAVEL with abundant roots. Comprises weak angular platey mudstroccasional brick and clinker (LANDFIL MADE GROUND comprising very denclayey sandy GRAVEL comprising fragblacktop, broken glass, brick fragment (LANDFILL WASTE).	Gravel one and L WASTE). see black slightly iments of	1 —
		1.80	D		1.50			MADE GROUND comprising firm to st brown (locally pale blue and orange st GRAVEL. Gravel comprises angular pl and occasional fragments of clay pipe WASTE). MADE GROUND comprising medium (locally pale grey) clayey GRAVEL. Gr weak angular mudstone in random oriof very gravelly CLAY (LANDFILL WA	aining) clayey atey mudstone (LANDFILL dense purple avel comprises entation. Lenses	2 —
		3.20	D		3.60 4.20			MADE GROUND comprising stiff purp mottled grey and orange) very gravelly to very clayey GRAVEL. Gravel compr mudstone with occasional subrounded (LANDFILL WASTE). MADE GROUND comprising medium very clayey gravel. Gravel comprises r quartz with occasional fragments of co (LANDFILL WASTE). MADE GROUND comprising soft purp	CLAY tending ises angular quartz dense purple nudstone and ncrete	3
		5.10	D					gravelly CLAY. Gravel comprises angu with occasional plant matter and white (LANDFILL WASTE).	lar mudstone	5 —
		6.20	D		5.80			MADE GROUND comprising medium purplish brown very clayey GRAVEL w Possible relic topsoil (LANDFILL WAS	ith plant matter.	6 —
		7.30	D		6.80 7.40			Dense purple slightly clayey GRAVEL. comprises weak angular platey mudstorientation, dipping approximately 10° Extremely weak distinctly weathered M (TORPOINT FORMATION).	one in uniform off horizontal. MUDSTONE	7 —
	•							Arisings of fine purple dust with clast of MUDSTONE (TORPOINT FORMATIO		8
								Continued on Next Sheet		

Groundwater was encountered at 9.56m. Dynamic sampling hit refusal at a depth of 7.4m, the borehole was continued by rotary open hole drilling and the arising were logged. Borehole was filled with bentonite from 10.5m to 4.0m followed by arising to ground level.



	(g)	,							Borehole N	lo.
	000000000000000000000000000000000000000					Bo	reho	ole Log	BH14	
	geo consulting engineering Itd							J	Sheet 2 of	2
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:	241271E - 60404N	Hole Type BH	9
_ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	sh	Level:		Scale 1:50	
Client:		Burcomb	oe Hau	lage			Dates:	18/08/2016	Logged By RA	
		0		o City Talatina		T			IVA	
Well	Water Strikes	Depth (m)	Туре	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	1	
										=
					10.50					_
					10.50			End of Borehole at 10.500	m	-
										11 —
										=
										_
										=
										12 _
										_
										_
										13 —
										_
										_
										14 —
										-
										-
										-
										15 —
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										16 —
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										17 —
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										=
										18 —
										10 -
										_
										=
										19 —
										19 —
										=
										=
										20 —
				I						_~

Groundwater was encountered at 9.56m. Dynamic sampling hit refusal at a depth of 7.4m, the borehole was continued by rotary open hole drilling and the arising were logged. Borehole was filled with bentonite from 10.5m to 4.0m followed by arising to ground level.



	gec consulting								Borehole No	0.
	000000000000000000000000000000000000000					Во	reho	ole Log	BH15	
	geo consulting engineering Itd								Sheet 1 of	_
Projec	t Name:	Eales Fa	arm La	natili	Project No. GCE00692		Co-ords:	241313E - 60455N	Hole Type BH	
Locati	on:	Eales Fa	arm, Ta	amar View Industria	l Estate, Salta	ısh	Level:		Scale 1:50	
Client:		Burcoml	be Hau	ılage			Dates:	19/08/2016	Logged By RA	′
Well	Water Strikes	•		n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	ı	
Pamal		1.20 1.50 2.50 3.00 4.20 4.50 5.30 5.80 6.00	ES SS ES SS	N=13 (6,4/4,4,3,2) N=6 (2,2/1,2,1,2) N=10 (2,2/2,3,2,3) N=83 (6,8/12,19,24,2)	0.15 1.00 2.00 4.10 5.10 5.50			MADE GROUND comprising firm brow GRAVEL tending to very gravelly CLAN occasional concrete fragments. Gravel angular mudstone and subrounded sai (LANDFILL WASTE). MADE GROUND comprising medium purple slightly sandy clayey GRAVEL. comprises angular platey mudstone wisubrounded sandstone (LANDFILL W. MADE GROUND comprising medium light brown slightly clayey slightly sand Gravel comprises platey angular muds siltstone in random orientations (LANDFILL W. MADE GROUND comprising loose purclayey slightly sandy GRAVEL. Gravel platey angular mudstone in random orientation occasional subangular quartzite (LANDFILL WASTE). MADE GROUND comprising firm to stis sandy gravelly CLAY. Gravel comprise mudstone in random orientation with o organic matter (LANDFILL WASTE). Dense purple slightly clayey GRAVEL strong partially weathered very closely MUDSTONE (TORPOINT FORMATIO) Arisings of fine purple dust with clast of MUDSTONE (TORPOINT FORMATIO) End of Borehole at 9.000r	dense to dense Gravel th occasion ASTE). dense to dense y GRAVEL. tone and DFILL WASTE). The slightly comprises tentation and DFILL WASTE). The slightly comprises the slightly should be s	1 2 3 4 5 7 8 9 10

No groundwater encountered. Dynamic sampling hit refusal at a depth of 6.0m, the borehole was continued by rotary open hole drilling and the arising were logged. Borehole infilled with bentonite from base to 4.9m, gravel and slotted 50mm standpipe from 4.9m to 1.9m, and bentonite with plain 50mm standpipe from 1.9m to ground level.



	geoconsulting engineering tid ct Name: Eales Farm Landfill				Во	reho	ole Log	Borehole No BH16	0.	
ge enç	consulting gineering Itd				D. C. (A)			O	Sheet 1 of	
Project	Name:	Eales Fa	arm Lar	ndfill	Project No. GCE00692		Co-ords:	241308E - 60497N	Hole Type BH	•
Location	n:	Eales Fa	arm, Ta	mar View Industr	ial Estate, Salta	sh	Level:		Scale 1:50	
Client:		Burcoml	be Hau	lage		T	Dates:	19/08/2016	Logged By RA	
	Water Strikes	Sample Depth (m)		Results	Depth (m)	Level (m)	Legend	Stratum Description	n	
		1.40 2.00 3.80 5.80	D D	Results			Legend	Rotary drilling through MADE GROUND concrete (LANDFILL WASTE). MADE GROUND comprising loose broclayey sandy GRAVEL. Gravel comprover limestone, concrete and occasional brock and sandstone (LANDFILL WASTE). MADE GROUND comprising stiff to verify brown slightly sandy very gravelly CLO occasional cobbles and organic matter comprises mudstone, granite and quart waste). MADE GROUND comprising dense light (locally mottled purple and light grey) clayey GRAVEL with low cobble context comprise medium strong mudstone. Oplatey angular mudstone in random of Occasional fragments of concrete, sull and plant matter below 4.0m (LANDFILMADE GROUND comprising dense a brown mottled purple and grey slightly GRAVEL with occasional cobble of gracomprises angular mudstone in random (LANDFILL WASTE). MADE GROUND comprising light brownottled light grey) slightly clayey slight GRAVEL. Gravel comprises medium smudstone in random orientation with candstone (LANDFILL WASTE).	own slightly ises subangular ick fragments eny stiff purplish Ay with r. Gravel rtz (LANDFILL ombodies in a comparation of the	3 4
					7.90			GRAVEL with low cobble content of gr comprises mudstone with occasional sandstone (LANDFILL WASTE). Rotary drilling through MADE GROUN concrete (LANDFILL WASTE).	ranite. Gravel quartz and	8 —
		10.00	D		9.80			MADE GROUND comprising medium Continued on Next Sheet		10 —

No groundwater encountered. Dynamic sampling hit refusal at a depth of 15.4m, the borehole was continued by rotary open hole drilling and the arising were logged. Borehole infilled with bentonite from base to 14.4m, gravel and slotted 50mm standpipe from 14.4m to 2.4m, and bentonite with plain 50mm standpipe from 2.4m to ground level.



	(g)	,							Borehole No	0.
	geoconsulting engineering tid					Bo	reho	ole Log	BH16	
	geo consulting engineering Itd						_		Sheet 2 of	
Projec	t Name:	Eales Fa	arm Lar	ndfill	Project No. GCE00692		Co-ords:	241308E - 60497N	Hole Type BH	
Location	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ish	Level:		Scale 1:50	
Client:		Burcom	be Haul	lage			Dates:	19/08/2016	Logged By RA	′
Well	Water	Sample	and Ir	n Situ Testing	Depth	Level	Legend	Stratum Description		
· H:	Strikes	Depth (m)	Туре	Results	(m)	(m)	***************************************	purplish grey slightly sandy very clayer		
								some plant matter. Gravel comprises a mudstone and some limestone (LAND	ingular	
					10.50			MADE GROUND comprising stiff brow very gravelly CLAY tending to very clar	n slightly sandy	
		11.00	D					with occasional metal wire fragments. comprises angular mudstone, subroun	Gravel	11 —
		11.00						occasional sandstone (LANDFILL WAS		''
										=
					44.00					
					11.90			MADE GROUND comprising very density clayey GRAVEL. Gravel compr		12 =
								medium strong mudstone in random of (LANDFILL WASTE).	rientation	
		12.50	D							
										13 —
										=
					13.80			MARE OROUND :: ('ff')	0.00 H	=
								MADE GROUND comprising stiff to ve CLAY with occasional metal wire fragn	nents and	14 🗖
		14.40	ES					cobble of granite. Gravel comprises ar (LANDFILL WASTE).	igular mudstone	
		14.40			14.60			Dense purple very clayey GRAVEL. G	ravel comprises	-
							××××	medium strong closely fractured platey mudstone in uniform orientation. Resid	angular ·	=
		15.20	ES				××××	TORPOINT FORMATION.		15 —
					15.40		· · · · ·	Arisings of fine purple dust with clast of	f angular	=
								MUDSTONE (TORPOINT FORMATIO	N).	
										16
										=
										17 —
										=
										18 🚽
					18.60			End of Borehole at 18.600	m	
										19 —
										20 —
Remar	·ke									

No groundwater encountered. Dynamic sampling hit refusal at a depth of 15.4m, the borehole was continued by rotary open hole drilling and the arising were logged. Borehole infilled with bentonite from base to 14.4m, gravel and slotted 50mm standpipe from 14.4m to 2.4m, and bentonite with plain 50mm standpipe from 2.4m to ground level.



	(g)								Borehole N	lo.
	000000000000000000000000000000000000000	,				Во	reho	ole Log	BH17	
	geo consulting engineering Itd							9	Sheet 1 of	2
Projec	ct Name:	Eales F	arm Laı	natili	Project No. GCE00692		Co-ords:	241256E - 60449N	Hole Type	9
					GCE00692				BH Scale	
ocat	ion:	Eales F	arm, Ta	mar View Industria	al Estate, Salta	ish	Level:		1:50	
Client:		Burcom	be Hau	lage			Dates:	23/08/2016	Logged B	у
Well	Water	Sample	e and li	n Situ Testing	Depth	Level	Legend	Stratum Descripti		
VVCII	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legena	Stratum Descripti	OH	
		0.40	ES		0.25			MADE GROUND comprising firm br gravelly CLAY with abundant roots a glass. Gravel comprises platey angu (LANDFILL WASTE). MADE GROUND comprising firm ye	and some broken ular mudstone	
		0.90	ES		0.70			slightly sandy gravelly CLAY with mo content of block sandstone, along w fragments, plant matter and nails (L	edium cobble ith some concrete	1
		1.50		N=12 (2,3/3,3,3,3	1.20			WASTE). MADE GROUND comprising firm to gravelly CLAY with some plant matt	er. Abundant	
			ES					rootlets to 0.85m. Gravel comprises some quartz, granite and sandstone		
		1.80	ES		2.20			WASTE). MADE GROUND comprising mediu (locally stained orange and light grevery clayey GRAVEL. Gravel compr mudstone with occasional blocky sa (LANDFILL WASTE).	m dense purple y) slightly sandy ises platey angular ndstone	2
		3.00		N=14 (2,2/4,3,4,3)			MADE GROUND comprising mediu (locally stained light grey) clayey GF weak to medium strong platey angu random orientation (LANDFILL WAS	RAVEL. Gravel of lar mudstone in	3
		4.10	ES		3.70			MADE GROUND comprising mediu brown slightly sandy clayey GRAVE cobble content of blocky siltstone ar Gravel comprises mudstone, siltstor	L with medium nd sandstone.	4
		4.50		N=6 (2,/2,1,2,1)	4.50			with occasional granite. Occasional broken glass (LANDFILL WASTE). MADE GROUND comprising loose is sandy clayey GRAVEL with low cob- platey mudstone. Gravel comprises some granite and sandstone (LAND	ight brown slightly ble content of mudstone with	5
		5.50	ES							
		6.00		N=5 (2,1/1,1,2,1)						6
		7.50		N=Q (2 2/2 2 2 2)						7
		7.50		N=9 (2,2/3,2,2,2)	7.90			MADE GROUND comprising mediu (locally pale grey) slightly sandy cla Gravel comprises platey angular mu orientation with occasional quartz cl WASTE).	yey GRAVEL. Idstone in random	8
		9.00 9.20	ES	N=10 (3,4/3,2,2,3)					(

Groundwater was encountered at 14.42m. Borehole ceased at 15m due to window sample refusal and concrete fragments suggesting the top of the culvert. Borehole filled with bentonite from 15.0m to 9.6m followed by arising to ground level.

10.00



Continued on Next Sheet

10 -

	····(g))							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	BH17	
	geo consulting engineering Itd						1		Sheet 2 of	
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:	241256E - 60449N	Hole Type BH	;
Locati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:50	
Client:		Burcom	be Hau	lage			Dates:	23/08/2016	Logged By RA	У
Well	Water	Sample	e and I	n Situ Testing	Depth	Level	Legend	Stratum Description		
	Strikes	Depth (m)	Туре	Results	(m)	(m)	*********			
		10.50		N=18 (6,3/6,6,3,3	11.40			MADE GROUND comprising dense puclayey GRAVEL. Gravel comprises pla mudstone (LANDFILL WASTE). MADE GROUND comprising firm purp	itey angular	11 —
		12.00		N=10 (4,3/3,3,3,1				(locally very gravelly) CLAY. Gravel co angular mudstone with occasional qua fragments at 15m and refusal, believed the culvert (LANDFILL WASTE).	mprises platey artz. Concrete	12 —
	•	13.50 14.50	ES	N=16 (4,4/5,3,4,4	i)					14 —
					15.00			End of Borehole at 15.000	m	15
										20 —

Groundwater was encountered at 14.42m. Borehole ceased at 15m due to window sample refusal and concrete fragments suggesting the top of the culvert. Borehole filled with bentonite from 15.0m to 9.6m followed by arising to ground level.



	(g)	-							Borehole No	٥.
	000000000					Bo	reho	ole Log	B19-1	
	geo consulting engineering Itd							•	Sheet 1 of	9
Projec	t Name:	Eales Fa	arm Lar	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
_ocati	on:	Eales F	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Haul	lage			Dates:	25/02/2020	Logged By RA	'
	Water	Sample	and Ir	n Situ Testing	Donth	Level				
Well	Strikes	Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description		
		0.20 0.30 - 1.50	JG B	TKGSUIG	1.50			MADE GROUND comprising firm brow gravelly slightly sandy CLAY with occa and plastic fragments. Gravel comprise mudstone and quartz. (Possible reworl of the Torpoint Formation) Extremely weak cleaved purple MUDS weathering to clayey gravel. Rock bregravel in hand. Gravel platey with smo along cleavage planes. Cleavage dipp 10 degrees. (Completely weathered m Torpoint Formation)	sional rootlets es mixture of ked mudstone TONE aks in fine oth surfaces ing at roughly	1 —
										- 2 -
								Continued on Next Sheet		2 —



1	(g)	,				·	·		Borehole N	0.
						Bo	reho	ole Log	B19-1	
6	geo consulting engineering Itd								Sheet 2 of	
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocatio	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	sh	Level:		Scale 1:10	
lient:		Burcomb	be Hau	lage			Dates:	25/02/2020	Logged By RA	′
		0		- Oite To other	1				IVA	
Vell	Water Strikes	Depth (m)	Туре	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
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	geo consulting engineering Itd							•	Sheet 3 of	
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	:
ocatio	on:	Eales Fa	arm, Ta	mar View Industri		sh	Level:		Scale 1:10	
lient:		Burcomb	oe Hau	lage			Dates:	25/02/2020	Logged By RA	/
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Vell	Water Strikes	Depth (m)	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description		
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	fg	g ing							Borehole N	0.
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	geo consulting engineering Itd								Sheet 4 of	
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	:
ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
lient:		Burcoml	be Hau	lage			Dates:	25/02/2020	Logged By	/
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rojed	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	sh	Level:		Scale 1:10	
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Vell	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description TO BE LOGGED		
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	engineering Itd								Sheet 6 of	
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
₋ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	25/02/2020	Logged By RA	y
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	engineering Itd								Sheet 7 of	
Projec	t Name:	Eales Fa	arm Lai	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	!
Locati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
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	geo consulting engineering Itd							<u> </u>	Sheet 8 of	
Projec	t Name:	Eales Fa	arm Land	fill	Project No. GCE00692		Co-ords:		Hole Type BH	•
₋ocati	on:	Eales Fa	arm, Tama	ar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Haulaç	ge			Dates:	25/02/2020	Logged By RA	/
Well	Water Strikes	Sample Depth (m)	and In S	Bitu Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
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	(g))							Borehole N	0.
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	geo consulting engineering Itd							•	Sheet 9 of	
Projec	t Name:	Eales Fa	arm Laı	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	25/02/2020	Logged By	/
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Well	Water Strikes	Depth (m)	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description		
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	geo consulting engineering Itd								Sheet 1 of	8
Projec	t Name:	Eales Fa	arm Lar	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	!
_ocati	on:	Eales Fa	arm, Ta	mar View Industri		ısh	Level:		Scale 1:10	
Client:		Burcom	be Haul	lage			Dates:	20/02/2020	Logged By	/
									INA	
Well	Water Strikes			Results	Depth (m)	Level (m)	Legend	Stratum Description		
	Stirkes	0.30 0.50	JG JP	Results	0.45		X	Soft to firm brown sandy slightly grave with occasional cobble of quartz. Grav mudstone and quartz. (Possible wash slope) Extremely weak cleaved extremely clo purple MUDSTONE weathering to very Cleavage near horizontal. (Completely mudstone of the Torpoint Formation)	lly silty CLAY el comprises down from sely fractured y clavey gravel.	
		1.50	JP JP							1 —
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	(g))							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-2	
	geo consulting engineering Itd								Sheet 2 of	8
Projec	t Name:	Eales Fa	arm Laı	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
_ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	20/02/2020	Logged By	/
									KA	
Well	Water Strikes	Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	1	
		2.30	JP		2.40			Extremely weak to very weak cleaved Cleavage near horizontal. (Completely mudstone of the Torpoint Formation) Extremely weak to very weak cleaved closely to very closely fractured purple with thick green laminations from 2.6m Weak zone at 3.6m to 3.95m mudston gravelly clay. Very closely to closely s (50, 200, 350mm) along cleavage plane rough with minor light brown cle deformation of cleavage planes aroun vertical fractures at 3.25m and 3.45m (undulating/stepped) rough surfaces. fractures closely spaced (20, 150, 300 rough surfaces. Locally low persistenc cleavage plane fractures) and occasio Fractures from 4.3m to 4.45m dipping degrees against cleavage orientation vrough surfaces. At 4.95m to 5.3m ligh weathering orange undulating thick lar	extremely MUDSTONE To 3.45m. We weathered to paced fractures Surfaces Ay infill. Minor d 2.9m. Near with irregular Near horizontal mm) with planar e (terminating at nal clay infill. at roughly 60 with planar t grey	3 —



	(g)							Borehole N	0.
	00000000	Eales Farm Landfill				Bo	reho	ole Log	B19-2	
	geo consulting engineering Itd								Sheet 3 of	8
Projec	t Name:	Eales Fa	arm Laı	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	:
₋ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	20/02/2020	Logged By RA	/
Well	Water	Sample	and I	n Situ Testing	Depth	Level	Legend	Stratum Description		
	Strikes	Depth (m)	Туре	Results	(m)	(m)		Extremely weak to very weak cleaved closely to very closely fractured purple with thick green laminations from 2.6m Weak zone at 3.6m to 3.95m mudston gravelly clay. Very closely to closely s (50, 200, 350mm) along cleavage plan planar rough with minor light brown cle deformation of cleavage planes around vertical fractures at 3.25m and 3.45m (undulating/stepped) rough surfaces. fractures closely spaced (20, 150, 300 rough surfaces. Locally low persistence cleavage plane fractures) and occasion Fractures from 4.3m to 4.45m dipping degrees against cleavage orientation vrough surfaces. At 4.95m to 5.3m ligh weathering orange undulating thick lar	extremely MUDSTONE to 3.45m. e weathered to paced fractures les. Surfaces ley infill. Minor d 2.9m. Near with irregular Near horizontal mm) with planar e (terminating at nal clay infill. at roughly 60 with planar t grey	5 —
					5.30			Extremely weak to very weak closely f green SILTSTONE with occasional put thick laminations and closely spaced (quartz veins 5-10mm thick locally cont inclusions of black minerals (possibly riron). Fracture at 5.45m stepped with with dark reddish-brown staining.	rple and orange 60-90mm) aining manganese or rough surface	
								Extremely weak to very weak cleaved fracture thickly laminated purple MUDS Laminations light green becoming dark 6.3m. Cleavage planes dip at roughly Continued on Next Sheet	STÓNE. c green below	6 —



	(g))							Borehole No	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-2	
	geo consulting engineering Itd								Sheet 4 of	
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocati	on:	Eales Fa	arm, Ta	amar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
lient:		Burcoml	be Hau	ılage			Dates:	20/02/2020	Logged By RA	′
	Water	Sample	and I	n Situ Testing	Depth	Level				
Nell	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
					6.60			Extremely weak to very weak cleaved fracture thickly laminated purple MUDS Laminations light green becoming darh 6.3m. Cleavage planes dip at roughly Small zone containing quartz veins at from 6.5m to 6.6m. Some orange stair 5.9m and 6.0m. Fractures along cleaviclosely spaced (5, 25, 35mm) surfaces planar rough but locally slightly undula 5.95m dipping at roughly 50 to 60 degramooth surface. Very weak to weak cleaved thinly bedd SILTSTONE with occasional thin orang Quartz veins (7-10mm thick) from 7.55 inclusions of black minerals (possibly riron). Cleavage dipping roughly 40 degalong cleavage planes very closely sp. 100mm) generally with smooth planar Orange staining along fracture planes.	ded light green ge laminations. Fracture at roots or 7.9m with manganese or grees. Fractures acced (10, 40, surfaces.	7
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	00000000					Bo	reho	ole Log	B19-2	
	geo consulting engineering Itd								Sheet 5 of	-
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocati	on:	Eales Fa	arm, Ta	amar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
lient:		Burcomi	be Hau	ılage			Dates:	20/02/2020	Logged By RA	/
Nell	Water		and I	n Situ Testing	Depth	Level	Legend	Stratum Description	I	
Well	Strikes	Depth (m)	Туре	Results	8.15	Level	Legend XXXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXX	Very weak to weak cleaved thinly bedd SILTSTONE with occasional thin orang Quartz veins (7-10mm thick) from 7.55 inclusions of black minerals (possibly riron). Cleavage dipping roughly 40 deg along cleavage planes very closely sp. 100mm) generally with smooth planar Orange staining along fracture planes. Very weak cleaved light pinkish grey w reddish-brown MUDSTONE. Rock bro and cobble size clasts on recovery. Fra along cleavage planes to be smooth p extremely closely to very closely space.	ded light green ge laminations. im to 7.9m with manganese or grees. Fractures aced (10, 40, surfaces. reathering dark ken into gravel actures appear lanar surfaces	9
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						Bo	reho	ole Log	B19-2	
ge en	eo consulting ngineering Itd							<u> </u>	Sheet 6 of	
'roject	Name:	Eales Fa	arm Landf	fill	Project No. GCE00692		Co-ords:		Hole Type BH	•
.ocatio	n:	Eales Fa	arm, Tama	ar View Industri	al Estate, Salta	sh	Level:		Scale 1:10	
lient:		Burcoml	be Haulag	je			Dates:	20/02/2020	Logged By RA	/
Well	Water Strikes	Sample Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Descriptio	n	
								Continued on Next Sheet		11 —



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00000000			DU	renc	ole Log	B19-2	
geo consulting engineering Itd					<u> </u>	Sheet 7 of	
Project Name: Eales Farm Landfill		Project No. GCE00692		Co-ords:		Hole Type BH	!
Location: Eales Farm, Tamar Vi	iew Industria	l Estate, Salta	sh	Level:		Scale 1:10	
Client: Burcombe Haulage				Dates:	20/02/2020	Logged By RA	/
Well Strikes Sample and In Situ	Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
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	(g)						Borehole N	o.		
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	geo consulting engineering Itd								Sheet 8 of	
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocati	on:	Eales Fa	arm, Ta	nmar View Industr	rial Estate, Salta	sh	Level:		Scale 1:10	
lient:		Burcomi	oe Hau	ılage			Dates:	20/02/2020	Logged By RA	/
Mall	Water	Sample	and I	n Situ Testing	Depth	Level	Lagand	Ctratum Decariation	ı	
Vell	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
								End of Borehole at 15.00m		15 —



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	geo consulting engineering Itd								Sheet 1 of	
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	•
ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
lient:		Burcoml	be Hau	lage			Dates:	24/02/2020	Logged By	/
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Vell	Water Strikes	Sample Depth (m)	Type	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	I	
					0.27			Extremely weak cleaved purple MUDS weathering to very gravelly clay. Grave clasts of angular platey mudstone. (Co weathered mudstone of the Torpoint Formatter of the Torpoint Formatter of the Torpoint Sweathering to slightly clayey (locally clayer of the Torpoint Formation)	el comprises fine impletely ormation) STONE avey) sandy fine	- - - - -
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	geo consulting engineering Itd								Sheet 2 of	
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
₋ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	24/02/2020	Logged By RA	y
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	1	
		Depth (m)	Туре	Results			Residence of the control of the cont	TO BE LOGGED		3 —
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Borehole Log Sheet 3 of 9 Project Name: Eales Farm Landfill Project No. GC000692 Co-ords: Hole Type BH Cotation: Eales Farm, Tamer View Industrial Estate, Saltash Level: Scale 1-10 Level Level Scale 1-10 Level Level Scale 1-10 Level Level Scale 1-10 Level Level Level Scale 1-10 Level Level Level Level Level 1-10 Level Level Level Level Level Level 1-10 Level Level		(g)							Borehole N	0.
Project Name Eales Farm Landfill		000000000					Bo	reho	ole Log	B19-3	
Control Cont		geo consulting engineering Itd		Falos Farm Landfill Project No.							
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Well Water Sample and In Stut Testing Organic (m) Level (m) Level (m) Results Stratum Description Stratum Description RA	₋ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:			
Strikes Depth (m) Type Results (n) (n) Legend To Be LogGeD To Be Logge	Client:		Burcoml	be Hau	lage			Dates:	24/02/2020		y
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	geo consulting engineering Itd								Sheet 4 of	
Projec	t Name:	Eales Fa					Co-ords:		Hole Type BH	;
₋ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	24/02/2020	Logged By RA	y
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	1	
		Depth (m)	Туре	Results			Consecuence of the control hay key key key key key key key key key ke	TO BE LOGGED		7 —
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	engineering Itd								Sheet 5 of	
Projed	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	!
Locati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	24/02/2020	Logged By RA	′
Well	Water Strikes			n Situ Testing	Depth	Level	Legend	Stratum Description	<u> </u>	
		Depth (m)	Type	Results	(m)	(m)	Incomedinacome	TO BE LOGGED		9
<u>.H.</u>							tincorrectincorrectincorrecti key key key	Continued on Next Sheet		10 —



	(g)								Borehole N	0.
		Eales Farm Landfill				Bo	reho	ole Log	B19-3	
	geo consulting engineering Itd								Sheet 6 of	
Projec	t Name:	Eales Fa	arm Land	lfill	Project No. GCE00692		Co-ords:		Hole Type BH	•
_ocati	on:	Eales Fa	arm, Tam	ar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Haula	ge			Dates:	24/02/2020	Logged By RA	/
Well	Water Strikes	Sample Depth (m)		Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
		Doput (III)	Type	TOSURO			consectioncerediniconnecitary and years and ye	Continued on Next Sheet		11 —
			1 1				1 1	Continued on Next Sheet		1



	(g)								Borehole N	0.
						Bo	reho	ole Log	B19-3	
	geo consulting engineering Itd		Eales Farm Landfill					<u> </u>	Sheet 7 of	9
Projec	t Name:	Eales Fa	arm Land	łfill	Project No. GCE00692		Co-ords:		Hole Type BH	•
_ocati	on:	Eales Fa	arm, Tam	nar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Haula	ge			Dates:	24/02/2020	Logged By RA	/
Well	Water Strikes	Sample Depth (m)		Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
			Туре				connectingment of the control of the	Continued on Next Sheet		13 —
			1			1	1 1	Continued on Next Sheet		1



0000	(g)				_	_	_	Borehole No	ο.
					Bo	reho	ole Log	B19-3	
geo cons engineeri	ulting ng Itd						_	Sheet 8 of 9	
Project Na	me: Eales F	arm Land	fill	Project No. GCE00692		Co-ords:		Hole Type BH	
Location:	Eales F	arm, Tama	ar View Industri	al Estate, Salta	sh	Level:		Scale 1:10	
Client:	Burcom	be Haulaç	ge			Dates:	24/02/2020	Logged By RA	,
Wa Wa	ter Sample	and In S	Situ Testing	Depth	Level				
Well Stril		Туре	Results	(m)	(m)	Legend	Stratum Description		
						key key sey second-consection-con	Continued on Next Sheet		15 — — — — — — — — — — — — — — — — — — —



	g	}							Borehole N	0.
	00000000					Bo	reho	ole Log	B19-3	
	geo consulting engineering Itd							0	Sheet 9 of	
Projec	t Name:	Eales Fa	arm Lai	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
Locati	on:	Eales Fa	arm, Ta	mar View Industri	1	sh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	24/02/2020	Logged By RA	/
	Water	Sample	and I	n Situ Testing	Depth	Level				
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
					16.50		inconventionorelinomental key key key inconventionorelinomental key key inconventionorelinomental key key key key inconventionorelinomental key key inconventionorelinomental key key key key inconventionorelinomental key	End of Borehole at 16.50m		17 —
										18 —



	(g)							Borehole N	0.
			Project No.		Bo	reho	ole Log	B19-4		
	geo consulting engineering Itd								Sheet 1 of 1	10
Projec	t Name:	Eales Fa	arm Laı	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	•
₋ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Sa	tash	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	07/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level	Legend	Stratum Description		
	Strikes	0.40 0.40 0.40 0.50	PP PP PP JP	100.00 100.00 125.00	(m)	(m)	Logoria	Moss over MADE GROUND comprisin (locally stiff) brown mottled grey slightly gravelly CLAY locally tending to gravell dominated by angular platey dark grey some clasts of blacktop and concrete. rootlets within top 0.5m. Occasional fras andstone, quartz and brick fragment (Landfill Waste)	g soft to firm y sandy very . Gravel mudstone with Occasional agments of	
		1.00	JP							1 —
		1.40 1.40 1.40 1.50 1.50	PP PP PP JP SPT	50.00 50.00 62.50 N=6 (1,1/2,1,2,1						- - - - - - - - -
		2.00	JP					Continued on Next Sheet		2 —



	(g)							Borehole N	0.
	000000000					Bo	reho	ole Log	B19-4	
	geo consulting engineering Itd								Sheet 2 of 1	
Projec	t Name:	Eales Fa	arm La		Project No. GCE00692		Co-ords:		Hole Type BH	:
₋ocati	on:	Eales Fa	arm, Ta	amar View Industria	l Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	ılage			Dates:	07/02/2020	Logged By RA	/
	Water	Sample	and I	n Situ Testing	Depth	Level			1	
Well	Strikes	Depth (m)	Туре		(m)	(m)	Legend	Stratum Description		
		2.50	JP					Moss over MADE GROUND comprisin (locally stiff) brown mottled grey slightly gravelly CLAY locally tending to gravel dominated by angular platey dark grey some clasts of blacktop and concrete. rootlets within top 0.5m. Occasional frasandstone, quartz and brick fragment (Landfill Waste)	y sandy very . Gravel r mudstone with Occasional agments of	- - - - - - -
		2.75	JG		2.70			MADE GROUND comprising stiff dark gravelly CLAY with low cobble content and quartz. Gravel dominated my angumudstone with some quartz, limestone and concrete fragments. Occasional or (plant matter such as twigs and roots) organic odour. Wet soft wet clay 3.0m, SPT testing. (Landfill Waste)	of mudstone ular platey e, sandstone rganic matter with slight	- - - -
		3.00 3.00	JP SPT	N=53 (6,9/10,10,15,	3.60			ODEX arisings contained brown clay we fragments of concrete and brick. (Land	vith occasional Ifill Waste)	3 —
								Continued on Next Sheet		4 —



Borehole Log Shet3 at 10 Croject Name: Eales Farm Landfill Project No. GCE00802 Cocation: Eales Farm Tamer View Industrial Estate, Saltash Level: Scale 1:10 Secule 1:10 Burcombe Haulage Dates: 07/02/2020 Industrial Estate, Saltash Level: Scale 1:10 Industrial Estate, Saltash Industrial Estate, Scale 1:10 Industrial Estate, Saltash Industrial Estate, Sa		<u></u>								Borehole N	
Sheet 3 of 10 Project No. GCE00802 Co-ords: Hollo Type BH		(9))				Ro	reho	ale Loa		
Project Name: Eales Farm Landfill Project No. GCE00802 Co-ords: BH		geo consulting engineering Itd					DO		oic Log		
Control Cont	Projec	t Name:	Eales Fa	arm La	natili			Co-ords:		Hole Type	
	ocati	on:	Fales Fa	arm Ta			aeh	l evel:			
Water Sample and in Situ Testing Depth (m) Type Results Depth (m) RA						ar Estate, Gaite	2311				
Strikes Depth (m) Type Results (m) (m) Cegeno ODEX arisings contained brown class with Canadilla Waste)	Client:		Burcoml	be Hau	ılage			Dates:	07/02/2020		,
A.50 SPT N=46 (4,8/9,9,10,18) A.50 MADE GROUND comprising firm to stiff Decoming very stiff from 5,00) brown slightly sandy gravelly (locally very gravely) (LAV with occasional cobile of concrete and brick (ragments, (Landfill Waste)) A.70 JP	Well							Legend	Stratum Description	l	
07.50 FF 07.50			4.50 4.70 5.10 5.10 5.10 5.20 5.40 5.40 5.40 5.40 5.40	SPT JP PPPP JP PPPPPPPPPPPPPPPPPPPPPPPPP	N=46 (4,6/9,9,10,1) 100.00 75.00 75.00 75.00 75.00	8) 4.50			MADE GROUND comprising firm to st very stiff from 6.0m) brown slightly san (locally very gravelly) CLAY with occas concrete and mudstone. Gravel comprimudstone, concrete, quartz, blacktop a	iff (becoming dy gravelly isses a mix of and occasional	5 —



	··· (g)							Borehole N	0.
	000000000000000000000000000000000000000		Eales Farm Landfill Project No. GCE00692			Bo	reho	ole Log	B19-4	
	geo consulting engineering Itd				Project No.			9	Sheet 4 of	10
Projec	t Name:	Eales F	arm La	ndfill			Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Sal	tash	Level:		Scale 1:10	
Client:		Burcom	(m)				Dates:	07/02/2020	Logged By RA	у
\\/all	Water	Sample	and li	n Situ Testing	Depth	Level	Lagand	Ctratum Decariation	I.	
Well	Strikes	Depth (m)	Туре		(m)	(m)	Legend	Stratum Description		
				N=32 (3,6/7,7,8,1	0)			MADE GROUND comprising firm to st very stiff from 6.0m) brown slightly sar (locally very gravelly) CLAY with occas concrete and mudstone. Gravel comprimudstone, concrete, quartz, blacktop a pieces of plastic and brick fragments.	ndy gravelly sional cobble of rises a mix of and occasional	- -
		6.20	JP							
		6.30	PP	150.00						- - - -
		6.60 6.60 6.60	JG PP PP	100.00 125.00						- - - -
		7.00	JP		6.90			MADE GROUND comprising predomir soft lenses brown very gravelly slightly with occasional cobble size fragments blacktop. Gravel comprises mixture of granite, limestone, sandstone, concret brick with occasional fragments of slag from 7.5 to 8.0m. (Landfill Waste)	of concrete and mudstone, e, blacktop and	7 —
		7.20	JG							- - - -
		7.50	SPT	N=20 (4,4/4,5,5,6	5)			Continued on Next Sheet		- 8 -



	(g								Borehole N	0.
	00000000					Bo	reho	ole Log	B19-4	
	geo consulting engineering Itd		Eales Farm Landfill Project No. GCE00692					Sheet 5 of 1	10	
Projec	t Name:	Eales Fa	arm La	ndfill			Co-ords:		Hole Type BH	;
₋ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	07/02/2020	Logged By RA	/
	Water	Sample	and li	n Situ Testing	Donth	Lovel				
Well	Strikes	Depth (m)	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description		
Well	Strikes	8.20 8.20 9.00 9.00 - 11.50 9.00	JP JG B SPT	Results N=21 (4,4/4,6,6,5	8.70	(m)	Legend	MADE GROUND comprising predomir soft lenses brown very gravelly slightly with occasional cobble size fragments blacktop. Gravel comprises mixture of granite, limestone, sandstone, concret brick with occasional fragments of slag from 7.5 to 8.0m. (Landfill Waste) MADE GROUND comprising stiff purp CLAY. Gravel dominated with angular mudstone with occasional brick fragme (Possibly reworked mudstone of the To Formation)	nantly firm with sandy CLAY of concrete and mudstone, e, blacktop and g. No recovery	9 —
		9.50 9.70 9.70 9.70 9.70	JP JP PP PP JP	100.00 100.00 100.00				Continued on Next Sheet		



	_									
	g	+							Borehole No	
						Bo	reho	ole Log	B19-4	
	engineering Itd				Project No.				Sheet 6 of 1 Hole Type	
Projec	t Name:	Eales Fa	arm La		GCE00692		Co-ords:		BH	
_ocati	on:	Eales Fa	arm, Ta	ımar View Industria	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	he Hau	ılane			Dates:	07/02/2020	Logged By	/
JIICITE.							Dates.	0110212020	RA	
Well	Water Strikes	Depth (m)	Type	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
		10.30 10.30 10.30 10.50 11.00	PP PP PP PP PP	100.00 125.00 125.00 N=21 (2,4/6,4,5,6) 100.00 87.50 87.50				MADE GROUND comprising stiff purpl CLAY. Gravel dominated with angular pmudstone with occasional brick fragme (Possibly reworked mudstone of the To Formation)	platey clasts of ents and quartz.	
		11.60 11.60 11.60 11.70	PP PP PP JG	125.00 150.00 162.50	11.50			Stiff to very stiff purple very gravelly CL very clayey gravel. Gravel comprises a fine sized clasts of mudstone. Some represent. (Possibly completely weathers the Torpoint Formation)	angular platey elic structure	- - - - - - -
		12.00	SPT	N=40 (8,8/9,9,10,1)	2) 12.00		× — ×	Continued on Next Sheet		12 —



Borehole Log Barbole Log Broenole Log Broenole Log Sheet 7 of	
Sheet 7 of	
Project Name: Eales Farm Landfill Project No. GCE00692 Co-ords: Hole Ty BH Location: Eales Farm, Tamar View Industrial Estate, Saltash Level: Scale 1:10 Dient: Burcombe Haulage Dates: 07/02/2020 Logged RA Well Water Strikes Depth (m) Type Results Depth (m) Level (m) Extremely weak cleaved purple MUDSTONE weathering to clayey fine gravel. Occasional light beige/grey very thin bands. (Mudstone of the Torpoint	
Location: Eales Farm, Tamar View Industrial Estate, Saltash Level: Scale 1:10 Dates: 07/02/2020 Logged RA Well Water Strikes Depth (m) Type Results Depth (m) Type Results Extremely weak cleaved purple MUDSTONE weathering to clayey fine gravel. Occasional light beige/grey very thin bands. (Mudstone of the Torpoint	
Color Colo	
Well Water Strikes Sample and In Situ Testing Depth (m) Type Results Depth (m) Level (m) Extremely weak cleaved purple MUDSTONE weathering to clayey fine gravel. Occasional light beige/grey very thin bands. (Mudstone of the Torpoint	
Strikes Depth (m) Type Results (m) Legend Stratum Description	Зу
Extremely weak cleaved purple MUDSTONE weathering to clayey fine gravel. Occasional light beige/grey very thin bands. (Mudstone of the Torpoint	
13.40 JP 13.50 SPT 50 (25 for 145mm/50 for 135mm) 13.75 Extremely weak cleaved purple MUDSTONE weathering to very gravely CLM? Oxosional thick Islandandors of orage sendatorie. (Middstone of the Toppoint Formation)	13 —



Location: Eales Farm, Tamar View Industrial Estate, Saltash Level: Scale 1:10 Client: Burcombe Haulage Dates: 07/02/2020 Logged By RA		(g)							Borehole No	0.
Sheat 8 of 10 Project Name: Eales Farm Landfill Project No. GCE00692 Co-ords: Hole Type BH Scale 1:10 Dates: 07/02/2020 Logged By RA Well Vater Strikes Depth (m) Type Results (m) Depth (m) Type Results (m) Very weak cleaved purple MUDSTONE weathering to very gravely CLAY. Occasional thick laminations of purple sandstone. (Mudstone of the Torpoint Formation) Very weak cleaved very closely fractured purple MUDSTONE weathering to very gravely CLAY. Occasional thick laminations of main fracture sets. Set 1 along cleavage planes very closely space (d, 30, 100mm) with planar orugh surfaces. Set 2 become gravely clause and some cleavage dipping roughly 40 to 50 offers. Set 2 cutting across cleavage dipping roughly 40 to 50 offers. Set 2 become gravely clause and set 20, 300. S00mm), with slepped rough surfaces cleavage dipping roughly 40 to 50 offerses along to pthick light greenish grape (120, 300.) S00mm), with slepped rough surfaces cleavage dipping roughly 70 degrees with planar rough surface with infill of soft light brown clay. At 15.5m fracture dipping roughly 70 degrees with planar rough surface with infill of soft light brown clay.		000000000000000000000000000000000000000					Bo	reho	ole Log	B19-4	
Eales Farm, Tamar View Industrial Estate, Saltash Level: Stratum Description Extremely weak cleaved purple MIDSTONE weathering to very gravely CLAV Occasional thick laminations of orange sandstone. (Mudstone of the Torpoint Formation) Vary weak cleaved purple MIDSTONE weathering to very gravely CLAV Occasional thick laminations of orange sandstone. (Mudstone of the Torpoint Formation) Vary weak cleaved very closely fractured purple MUDSTONE. Cleavage dipping roughly 40 to 50 office see seep violety spaced (6, 30, 100mm) with planar rough surfaces. Set 2 culting across cleavage dipping roughly 40 to 50 office see seep violety spaced (6, 30, 100mm) with planar rough surfaces. Set 2 culting across cleavage dipping roughly 40 degrees medium spaces (20, 300, 500mm), with stepped rough surfaces set 2 become less frequent Fracture dipping roughly 70 degrees with planar rough surfaces with infill of soft light brown clay. At 15.5m fracture dipping roughly 70 degrees with planar rough surface with infill of soft light brown clay.		geo consulting engineering Itd							•	Sheet 8 of 1	10
Dates: Dates: O7/02/2020 Logged By RA Well Water Sample and In Situ Testing Depth (m) Type Results Carried in Structured purple MUDSTONE weathering to very gravely CLAY. Occasional thick laminations of orange sandstone. (Mudstone of the Torpoint Formation) Well Water Sample and In Situ Testing Depth (m) Type Results Situation of orange sandstone. (Mudstone of the Torpoint Formation) Well Water Sample and In Situ Testing Depth (m) Type Results Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Depth (m) Type Results Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Strikes Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Strikes Situation of Orange sandstone. (Mudstone of the Torpoint Formation) Well Water Strikes Strik	Projec	t Name:	Eales Fa	arm La	ndfill			Co-ords:			;
Burcombe Haulage Dates: 07/02/2020 Logged By RA	_ocati	on:	Eales Fa	arm, Ta	nmar View Industri	ı	ash	Level:		Scale	
Water Strikes Sample and In Situ Testing Depth (m) Type Results Depth (m) Extremely weak cleaved purple MUDSTONE weathering to very gravely CLAY. Occasional thick laminations of orange sandstone. (Mudstone of the Torpoint Formation) Very weak cleaved very closely fractured purple MUDSTONE. Cleavage dipping roughly 40 to 50 degrees. Two main fracture sets. Set 1 along cleavage planes very closely space (5, 30, 100mm) with planar rough surfaces. Set 2 cutting across cleavage dipping rough surfaces. Set 2 cutting across cleavage dipping rough surfaces. Set 2 become less frequent below 15.5m. At 14.85m fracture dipping 20 to 30 degrees along top thick light greenish grey lamination. Fracture infilled with soft brown clay. At 15.5m fracture dipping roughly 70 degrees with planar rough surface with infill of soft light brown clay.	Client:		Burcomi	be Hau	ılage			Dates:	07/02/2020	Logged By	/
Strikes Depth (m) Type Results (m) (m) Egent Extremely weak cleaved purple MUDSTONE weathering to very gravely CLAV. Occasional thick laminations of orange sandstone. (Mudstone of the Torpoint Formation) Very weak cleaved very closely fractured purple MUDSTONE. Cleavage dipping roughly 40 to 50 degrees. Two main fracture sets. Set 1 along cleavage planes very closely spaced (5.3 or, 10mm) with planar rough surfaces. Set 2 cutting across cleavage dipping roughly 40 degrees medium spaced (20, 300, 500mm), with stepped rough surfaces. Set 2 become less frequent below 15.5m. At 14.55m fracture dipping 20 to 30 degrees along top thick light greenish grey lamination. Fracture infilled with soft brown clay. At 15.5m fracture dipping roughly 70 degrees with planar rough surface with infill of soft light brown clay.										101	1
Extremely weak cleaved purple MUDSTONE washering to very gravely CLAY. Occasional thick laminations of orange sandstone. (Mudstone of the Torpoint Formation) Very weak cleaved very closely fractured purple MUDSTONE. Cleavage dipping roughly 40 to 50 degrees. Two main fracture sets. Set 1 along cleavage planes very closely spaced (5, 30, 100mm) with planar rough surfaces. Set 2 cuting across cleavage dipping roughly 40 degrees medium spaced (20, 300, 50mm), with stepped rough surfaces. Set 2 become less frequent below 15.5m. At 14.85m fracture elses frequent below 15.5m. At 14.85m fracture of grey lamination. Fracture infilled with soft brown clay. At 15.5m fracture dipping roughly 70 degrees with planar rough surface with infill of soft light brown clay.	Well							Legend	Stratum Description		
Continued on Next Sheet 16						14.30			Weathering to very gravely CLAY. Occal aminations of orange sandstone. (Muc Torpoint Formation) Very weak cleaved very closely fracture MUDSTONE. Cleavage dipping roughl degrees. Two main fracture sets. Set 1 planes very closely spaced (5, 30, 100 rough surfaces. Set 2 cutting across croughly 40 degrees medium spaced (2 500mm), with stepped rough surfaces. less frequent below 15.5m. At 14.85m dipping 20 to 30 degrees along top thic grey lamination. Fracture infilled with s At 15.5m fracture dipping roughly 70 d planar rough surface with infill of soft li	ed purple by 40 to 50 along cleavage mm) with planar eleavage dipping 10, 300, Set 2 become fracture ck light greenish off brown clay. egrees with	- - - - - - - - - - - - -



	····(g)								Borehole N	0.
	geo consulting innoinement to			Bo	reho	ole Log	B19-4			
	geo consulting engineering Itd								Sheet 9 of 1	10
Projec	t Name:	Eales Fa	arm Laı	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	07/02/2020	Logged By RA	У
	347.7	Comple	ond l	n Situ Testing	5 "	Ι			101	
Well	Water Strikes	Depth (m)	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description		
					16.25			Very weak cleaved very closely fractur MUDSTONE. Cleavage dipping rough degrees. Two main fracture sets. Set 1 planes very closely spaced (5, 30, 100 rough surfaces. Set 2 cutting across or oughly 40 degrees medium spaced (2, 500mm), with stepped rough surfaces. less frequent below 15.5m. At 14.85m dipping 20 to 30 degrees along top this grey lamination. Fracture infilled with s At 15.5m fracture dipping roughly 70 d planar rough surface with infill of soft lil. Very weak to weak cleaved closely fra MUDSTONE. Cleavage dipping 40 to 90 Occasional thick light greenish grey lathroughout. Weak zone from 16.6m to extremely closely fractured mudstone clayey gravel. Fractures along cleavage closely spaced (50, 150, 300mm) with surfaces and some orange staining. At along cleavage undulating rough with Wet soft clay at 16.8m (possible fall in (Mudstone of the Torpoint Formation)	ly 40 to 50 I along cleavage jomm) with planar cleavage dipping 20, 300, . Set 2 become infracture ck light greenish soft brown clay clegrees with ight brown clay ctured purple 50 degrees minations 16.72m of weathering to ge planes planar smooth t 16.3m fracture orange staining.	17 —



	(g)				Borehole No.				
						Bo	reho	ole Log	B19-4	
	geo consulting engineering Itd								Sheet 10 of	
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	sh	Level:		Scale 1:10	
lient:		Burcomb	oe Hau	lage			Dates:	07/02/2020	Logged By RA	′
A/-II	Water	Sample	and I	n Situ Testing	Depth	Level		Otroture Description		
Nell	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
					18.60			Very weak to weak cleaved closely fram MUDSTONE. Cleavage dipping 40 to 5 Occasional thick light greenish grey lar throughout. Weak zone from 16.6m to extremely closely fractured mudstone oclayey gravel. Fractures along cleavag closely spaced (50, 150, 300mm) with surfaces and some orange staining. At along cleavage undulating rough with the Wet soft clay at 16.8m (possible fall in (Mudstone of the Torpoint Formation) End of Borehole at 18.60m	50 degrees. ninations 16.72m of weathering to ge planes planar smooth 16.3m fracture orange staining.	19 —



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	(g))				Da	م ما می		Borehole N	
	aea consulting					DU	rend	ole Log	B19-5	
	engineering Itd				Project No.				Sheet 1 of 1 Hole Type	
Projec	t Name:	Eales Fa	arm Lai	ndfill	GCE00692		Co-ords:		ВН	
ocati	on:	Eales Fa	arm, Ta	mar View Industria	al Estate, Salta	sh	Level:		Scale 1:10	
Client:		Burcoml	ho Hou	logo			Dates:	04/02/2020	Logged By	/
JIICIII.	I I						Dates.	04/02/2020	RA	
Well	Water Strikes	Sample Depth (m)		n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
		Deptil (III)	Туре	Results	1 1			Moss over MADE GROUND comprisin	g stiff to very	
								stiff brown (locally light brown/grey) slig gravelly CLAY with low cobble content.	Gravel	_
								dominated by angular platey clasts of p greenish grey mudstone with some fra	gments of	-
								concrete, brick and blacktop. Some org throughout (plant matter i.e. roots and		_
								Waste)		_
										_
										_
										_
		0.50	JP							_
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		1.50 1.50	JP SPT	N=8 (3,1/1,4,1,2)						_
		1.50	SF I	14-0 (3, 1/1,4,1,2)						-
										-
										-
		1.70 - 4.20	В		1.70			MADE GROUND comprising predomin (locally soft) brown slightly sandy grave	antly firm	-
								Gravel predominantly fine angular plate mudstone with some quartz and limest	ey clasts of	_
								recovery from 2.5m to 3.4m or 4.5m to	5.1m (possibly	
								due to large cobble size fragment of co pushed through surrounding wet soft c	lays by end of	
								sample tube). (Landfill Waste)		_
		2.00	JP					Continued on Next Sheet		2 —



									Borehole N	0.
	00000000					Bo	reho	ole Log	B19-5	
	geo consulting engineering Itd				Doday (No.		1		Sheet 2 of 1	
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
ocati	on:	Eales Fa	arm. Ta	ımar View Industria		ısh	Level:		Scale	
									1:10 Logged By	
Client:		Burcomb	be Hau	lage			Dates:	04/02/2020	RA	
Well	Water Strikes	Sample Depth (m)	Type	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
		2.20	JG	Nesulis				MADE GROUND comprising predomin (locally soft) brown slightly sandy graw Gravel predominantly fine angular plat mudstone with some quartz and limest recovery from 2.5m to 3.4m or 4.5m to due to large cobble size fragment of cc pushed through surrounding wet soft c sample tube). (Landfill Waste)	elly CLAY. ey clasts of one. No 5.1m (possibly oncrete being	- - - -
		2.50	JP							- - - - - -
		3.00	SPT	N=6 (2,3/2,1,1,2)						3 —
• •		3.50	JP							- - - - - -
		3.85 3.85 3.85	PP PP PP	25.00 75.00 75.00				Continued on Neyt Sheet		- - - - 4 —



	····(g))							Borehole No	٥.
						Bo	reho	ole Log	B19-5	
	geo consulting engineering Itd								Sheet 3 of 1	
Projec	t Name:	Eales Fa	arm Laı	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
_ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	04/02/2020	Logged By RA	'
Well	Water Strikes		and Ir	n Situ Testing	Depth	Level	Legend	Stratum Description		
	Strikes	Depth (m)	Туре	Results	(m)	(m)	***********			
		4.20 4.20 4.20	PP PP PP	100.00 100.00 75.00				MADE GROUND comprising predomir (locally soft) brown slightly sandy grave Gravel predominantly fine angular plat mudstone with some quartz and limest recovery from 2.5m to 3.4m or 4.5m to due to large cobble size fragment of copushed through surrounding wet soft c sample tube). (Landfill Waste)	elly CLAY. ey clasts of cone. No 5.1m (possibly concrete being	- - - - -
		4.40	JP							-
		4.50	SPT	N=18 (25 for 145mm/4,6,4,4)	5.10			MADE GROUND comprising firm brows andy CLAY with occasional fragments Gravel dominated by mudstone with ocsandstone. (Landfill waste)	s of blacktop.	5 —
		5.30 5.40	JP JG							- - - -
		5.90 5.90 5.90	JP PP PP	50.00 75.00	5.70			MADE GROUND comprising firm to sti brown slightly sandy gravelly CLAY wit cobble size fragments of blacktop and Gravel dominated by fine clasts of mu recovery from 7.5m to 7.9m. (Landfill V	th occasional limestone. dstone. No	- - - - - -
		6.00	SPT	N=4 (1,1/1,1,1,1,1))			Continued on Next Sheet		6 —



									Borehole No	0.
		•				Во	reho	ole Log	B19-5	
	geo consulting engineering Itd								Sheet 4 of 1	
Projec	t Name:	Eales Fa	arm Lar		Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	amar View Industria	al Estate, Salta	ish	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	04/02/2020	Logged By	/
Well	Water	Sample	and Ir	n Situ Testing	Depth	Level	Legend	Stratum Description		
VVCII	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	•		
		6.40 6.55 6.55 6.55 6.55 6.90 6.90 6.90 6.90 6.90 7.40 7.40 7.40 7.40 7.50	JP PP PP PP SPT	25.00 50.00 75.00 50.00 75.00 50.00 75.00 62.50 62.50 62.50 N=30 (1,3/3,4,5,18	3)			MADE GROUND comprising firm to sti brown slightly sandy gravelly CLAY wit cobble size fragments of blacktop and Gravel dominated by fine clasts of mur recovery from 7.5m to 7.9m. (Landfill V	th occasional limestone. dstone. No	7
										-
					7.00					
					7.90			MADE GROUND comprising cobble si limestone and concrete. ODEX from 8 arisings contain brown clay with chippi	.2m to 9.0m:	_
			1 1	ı				Continued on Next Sheet		8 —



*****	(2)							Borehole N	0.
					Во	reho	ole Log	B19-5	
geo consul engineering	ting Itd							Sheet 5 of	
Project Nan	ne: Eales F	arm La	natili	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocation:	Eales F	arm, Ta	amar View Industria	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:	Burcom	be Hau	ılage			Dates:	04/02/2020	Logged By	У
Well Wate			n Situ Testing	Depth	Level	Legend	Stratum Description	I	
Well Strik	Depth (m)	Type		(m)	Level	Legend	MADE GROUND comprising cobble si limestone and concrete. ODEX from 8 arisings contain brown clay with chippi and brick. (Landfill Waste) MADE GROUND comprising brown (lot brown) predominantly firm sandy grave containing cobble size fragments of briand black top. Gravel comprises mix of concrete, blacktop with some mudston and occasional pieces of pottery. (Landfill waster)	ze clasts of .2m to 9.0m: ngs of concrete ocally pinkish elly CLAY ick, concrete e and limestone	9 —
	9.30 9.30 9.30	JP PP PP	50.00 75.00				Continued on Next Sheet		- - - - - - - - - - - - - - - - - - -



	(g))							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-5	
	geo consulting engineering Itd								Sheet 6 of 7	15
Projec	t Name:	Eales Fa	arm La		Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	amar View Industria	l Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	ılage			Dates:	04/02/2020	Logged By RA	/
Well	Water			n Situ Testing	Depth	Level	Legend	Stratum Description	ı	
Well	Water Strikes	Depth (m) 10.30 10.30 10.30 10.30 10.50 10.50	JG PP PP PP		(m)	Level (m)	Legend	MADE GROUND comprising brown (lobrown) predominantly firm sandy grave containing cobble size fragments of briand black top. Gravel comprises mix of concrete, blacktop with some mudston and occasional pieces of pottery. (Landout Concrete and brick. (Landfill Waste)	ocally pinkish CLAY ick, concrete f brick, e and limestone dfill Waste)	11 —
					12.00					
_	1		1	I	12.00	1	PVYXXXXXX	Continued on Next Sheet		12 —



	(g	-							Borehole N	0.
	00000000					Bo	reho	ole Log	B19-5	
	geo consulting engineering Itd						_		Sheet 7 of 1	
rojec	ct Name:	Eales Fa	arm La		Project No. GCE00692		Co-ords:		Hole Type BH	;
.ocati	on:	Eales Fa	arm, Ta	mar View Industria	al Estate, Salta	ash	Level:		Scale 1:10	
lient:		Burcomi	oe Hau	lage			Dates:	04/02/2020	Logged By RA	y
	Water	Sample	and li	n Situ Testing	Depth	Level		01.1.5.11		
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
		12.20	JP					MADE GROUND comprising firm brow cobble size fragments of blacktop and Waste)	vn clay with bricks. (Landfill	- - - -
		13.20 - 13.80 13.50 13.50 13.60	JP JPT JPT JP	N=18 (7,3/4,4,3,7	13.50			MADE GROUND comprising firm brow brown) sandy gravelly CLAY. Gravel is mudstone, quartz, sandstone with fragelatotop and brick and some fragment (possible old planks/pallets). Soft zone	vn (locally light a mixture of ments of ss of wood from 14.8m to	13 —
		13.90 13.90 13.90 14.00	PP PP PP JP	100.00 100.00 150.00				14.9m. Blacktop layer from 15.65m to petrol odour at 14.5m. (Landfill Waste) Continued on Next Sheet	io.roni. oligitt	- - - - - 14 —



	(g)							Borehole N	0.
	000000000				Project No			ole Log	B19-5	
	geo consulting engineering Itd								Sheet 8 of 7	
Projec	t Name:	Eales Fa	arm La		Project No. GCE00692		Co-ords:		Hole Type BH	:
_ocati	on:	Eales Fa	arm, Ta	amar View Industria	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	ılage			Dates:	04/02/2020	Logged By RA	/
	Water	Sample	and I	n Situ Testing	Depth	Level			ı	
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
		15.00	JG SPT	N=48 (6,11/12,12,14,10	15.90			MADE GROUND comprising firm brow brown) sandy gravelly CLAY. Gravel is mudstone, quartz, sandstone with frag blacktop and brick and some fragment (possible old planks/pallets). Soft zone 14.9m. Blacktop layer from 15.65m to petrol odour at 14.5m. (Landfill Waste)	a mixture of ments of s of wood from 14.8m to 15.75m. Slight	15 —
					13.90			ODEX arisings contained wood chipping fragments of plastic.	ngs and	_
								Continued on Next Sheet		16 —



	(g)							Borehole N	0.
						Bo	reho	ole Log	B19-5	
	geo consulting engineering Itd								Sheet 9 of	
Projec	ct Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH)
ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcomi	be Hau	lage			Dates:	04/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
		16.50 16.60 16.65 16.85	SPT JP PP JG	Results N=38 (8,7/8,6,12,1				ODEX arisings contained wood chippin fragments of plastic. MADE GROUND comprising firm to sti slightly sandy gravelly CLAY with medicontent. Gravel and cobbles comprise limestone and mudstone. Some organ matter i.e. twigs/roots). (Landfill Waste	ff dark brown um cobble brick, concrete, ic matter (plant	17 —



	····(g))							Borehole N	0.
	00000000					Bo	reho	ole Log	B19-5	ı
	geo consulting engineering Itd							0	Sheet 10 of	15
Projec	ct Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	<u>;</u>
_ocati	on:	Eales Fa	arm, Ta	mar View Industri		ash	Level:		Scale 1:10	
Client	:	Burcomb	oe Hau	lage			Dates:	04/02/2020	Logged By	<i>y</i>
	\\/-t	Sample	and li	n Situ Testing	Dareth	Lavial			IVA	
Well	Water Strikes			Results	Depth (m)	Level (m)	Legend	Stratum Description	ı	
		Depth (m) 18.00	JP	Results N=30 (3,5/8,6,7,9				MADE GROUND comprising stiff (loca brown gravelly to very gravelly slightly with occasional cobble size fragments granite. Gravel contains mix of mudsto brick and concrete with occasional sar blacktop. (Landfill Waste)	sandy CLAY of concrete and one, limestone,	
		19.50 - 21.00	JP		19.10			ODEX arisings contained brown clay v quartz, limestone and mudstone along chippings (likely to be from old planks/ (Landfill Waste) Continued on Next Sheet	with wood	19 —



	(g)							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-5	
	geo consulting engineering Itd								Sheet 11 of	15
Projec	t Name:	Eales Fa	arm La		Project No. GCE00692		Co-ords:		Hole Type BH)
ocati	on:	Eales Fa	arm, Ta	ımar View Industria	l Estate, Salta	sh	Level:		Scale 1:10	
Client:		Burcomi	be Hau	lage			Dates:	04/02/2020	Logged By RA	/
	347.7	Comple	ond I	n Situ Tooting		I			101	
Well	Water Strikes	Depth (m)	Туре	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
		21.00 - 21.45 21.00 - 22.10 21.00	JP B SPT	N=42 (11,5/8,11,11,1	21.00			ODEX arisings contained brown clay vigurity, limestone and mudstone along chippings (likely to be from old planks/ (Landfill Waste) MADE GROUND comprising very stiff grey) gravelly silty CLAY with occasion matter (plant matter/ fossil roots). Grav by mudstone with occasional limeston. Refused at 22.1m on piece of light gre mudstone. (Landfill Waste/ possibly re mudstone of the Torpoint Formation)	purple (locally lal organic led dominated e and quartz. y thinly cleaved	- 21 —
		21.50	JG							- - - - - - -
		21.90	JP					Continued on Next Sheet		22 —



	(g)							Borehole N	0.
	000000000					Bo	reho	ole Log	B19-5	ı
	geo consulting engineering Itd								Sheet 12 of	15
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client		Burcom	be Hau	lage			Dates:	04/02/2020	Logged By RA	/
	\A/=4==	Sample	and li	n Situ Testing	Darette	Laval				
Well	Water Strikes	Depth (m)	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description		
		22.30	SPT	50 (18,7/50 for	22.30			MADE GROUND comprising very stiff grey) gravelly silty CLAY with occasior matter (plant matter/ fossil roots). Grav by mudstone with occasional limeston. Refused at 22.1m on piece of light gre mudstone. (Landfill Waste/ possibly re mudstone of the Torpoint Formation)	nal organic vel dominated e and quartz. y thinly cleaved	-
				150mm)				Very weak cleaved greenish grey MUE weathering orange brown. Fractures a planes dipping approximately 80 degrec closely spaced (10-30mm) with rough At 23m cleavage planes curved indica deformation. (Mudstone of the Torpoin	long cleavage ees, extremely planar surfaces. ting some	
					23.20			Very weak cleaved extremely closely f MUDSTONE with very thick lamination brown mudstone. Cleavage very steep to 90 degrees. From 23.2m to 23.4m tile extremely weak mudstone weathering Fractures along cleavage planes with surfaces containing minor infill of light At 24.7m, 23.95m, and 24.15m near higher fractures cutting across cleavage with surface. At 24.2m sharp boundary bets separated by 5mm thick infill of soft lig (Mudstone of the Torpoint Formation)	ns of orange oly dipping at 80 hin bands of to gravelly clay. rough planar brown soft clay. orizontal stepped rough ween strata	



	-	_								
	g)				_			Borehole N	0.
	geo consulting	Eales Farm Landfill				Bo	reho	ole Log	B19-5	
	engineering Itd				Project No.				Sheet 13 of Hole Type	
roje	ct Name:	Eales Fa	arm La	ndfill	GCE00692		Co-ords:		BH	•
.ocat	ion:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	sh	Level:		Scale	
lient		Burcoml	ho Hau	ulago			Dates:	04/02/2020	1:10 Logged By	/
, IICIII	· 						Dates.	04/02/2020	RA	
Well	Water Strikes	Sample Depth (m)	Type	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
					24.20			Very weak cleaved extremely closely fr MUDSTONE with very thick lamination brown mudstone. Cleavage very steep to 90 degrees. From 23.2m to 23.4m the extremely weak mudstone weathering Fractures along cleavage planes with resurfaces containing minor infill of light I At 24.7m, 23.95m, and 24.15m near he fractures cutting across cleavage with surface. At 24.2m sharp boundary betwee separated by 5mm thick infill of soft light (Mudstone of the Torpoint Formation). Very weak cleaved closely fractured gr SILTSTONE with very thin purple band to 24.5m. Cleavage steeply dipping 80 Fractures along cleavage planes with resurfaces and some orange staining. At 24.9m, 24.95m, and 25.0m fractures on cleavage with stepped rough surface a pinkish brown staining. Weak zone at 2 thick and dipping roughly 30 degrees) weathering to gravelly clay. (Siltstone of Formation)	s of orange ly dipping at 80 nini bands of to gravelly clay. Ough planar brown soft clay. Orizontal stepped rough eenish grey ling from 24.2m to 90 degrees. Ough planar 24.65m, utting across and orange/25.75m (20mm of siltstone	25 —



	(g)	,							Borehole N	0.
	000000000000000000000000000000000000000	Eales Farm Landfill				Bo	reho	ole Log	B19-5	
	geo consulting engineering Itd								Sheet 14 of	15
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	:
_ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	04/02/2020	Logged By RA	/
	147.4	Comple	ond l	a Citu Tooting		Ι			101	
Well	Water Strikes	Depth (m)	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description		
								Very weak cleaved blueish grey SILTS containing very thin veins (1-2mm thic generally dipping at 80 degrees. Zone weak siltstone weathering to orange biclay from 26.6m to 26.8m. Contact at 270 degrees. Very closely spaced fract 27.2m along cleavage planes dipping degrees with rough planar surfaces and dark orange staining. Near horizontal f 26.95m and 27.06m cutting across cleavage staining 27.45m cuts across cleavage brown staining 27.45m cuts across cleavage with step surface. Cleavage planes from 27.27m undulating suggesting some deformati appearance of almost schist like textur 27.86m to 28.3m near vertical within cundulating smooth surface. (Siltstone of formation)	c) of quartz of extremely rown gravelly 26.6m dipping at ures at 26.8m to at roughly 80 d some orange/ ractures at avages with low y. Fracture at oped rough to 27.45m on and e. Fracture from ore run with	27 —



	(g)								Borehole N	0.
		Eales Farm Landfill				Bo	reho	ole Log	B19-5	
9	geo consulting ingineering Itd							<u> </u>	Sheet 15 of	15
Project	Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	:
ocatio	n:	Eales Fa	arm, Ta	mar View Industri	ial Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	04/02/2020	Logged By RA	/
	Water	Sample	and li	n Situ Testing	Depth	Level			l	
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
					28.30			Very weak cleaved blueish grey SILTS containing very thin veins (1-2mm thick generally dipping at 80 degrees. Zone weak siltstone weathering to orange brolay from 26.6m to 26.8m. Contact at 270 degrees. Very closely spaced fractuur 27.2m along cleavage planes dipping a degrees with rough planar surfaces an dark orange staining. Near horizontal function 26.95m and 27.05m cutting across cleavage with step surface. Cleavage planes from 27.27m undulating suggesting some deformatical appearance of almost schist like textur 27.86m to 28.3m near vertical within condulating smooth surface. (Siltstone of Formation) End of Borehole at 28.30m End of Borehole at 28.30m	c) of quartz of extremely rown gravelly 26.6m dipping at ures at 26.8m to at roughly 80 d some orange/ ractures at avages with low g. Fracture at pped rough n to 27.45m on and e. Fracture from ore run with of the Torpoint	29 —



	(g)	,							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-6	
	geo consulting engineering Itd							<u> </u>	Sheet 1 of 1	
Projec	t Name:	Eales Fa	arm Lai		Project No. GCE00692		Co-ords:		Hole Type BH)
_ocati	on:	Eales Fa	arm, Ta	mar View Industria	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	03/02/2020	Logged By	/
	I 1	Commis		- City Taating		Ι			RA	
Well	Water Strikes			n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
Well	Strikes	0.30 0.50 0.50 0.50 0.50 1.00 1.00 1.00 1.	JP PP P	125.00 150.00 175.00 175.00 175.00	0.60	(m)	Legend	Moss over MADE GROUND comprising brown gravelly sandy CLAY with some dominated by angular platey clasts of mudstone. (Landfill material) MADE GROUND comprising stiff (loca sandy very gravelly CLAY. Gravel domangular platey clasts of mudstone with fragments of brick, glass, concrete and Cobble size fragment of concrete from (Landfill material)	g firm light roots. Gravel dark grey Ily firm) brown inated by some blacktop.	1 —
		2.00	JP					Continued on Next Sheet		- - - 2 -



	_								Danahala M	
	(g)					B ₀	roha		Borehole No B19-6	
	geo consulting		Fales Farm Landfill				ıen	ole Log	Sheet 2 of 1	
Proiec	t Name:	Eales Fa	arm La	natili	Project No.		Co-ords:		Hole Type	
					GCE00692				BH Scale	
ocati	on:	Eales Fa	arm, Ta	mar View Industria	al Estate, Salta	sh	Level:		1:10	
Client:		Burcomi	be Hau	lage			Dates:	03/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
	Strikes	2.30 2.30 2.30 2.50 2.70 2.80 2.80 2.80 3.00 - 5.00 3.00	Type PP PP JP JP BSPT	Results 62.50 75.00 137.50 175.00 87.50 N=30 (4,5/6,9,8,7	2.10	(m)	Legenu	MADE GROUND comprising stiff (loca sandy very gravelly CLAY. Gravel dom angular platey clasts of mudstone with fragments of brick, glass, concrete and Cobble size fragment of concrete from (Landfill material) MADE GROUND comprising stiff (loca brown (locally greyish brown) very gravel angular platey clasts of mudstone with limestone, quartz and blacktop fragme waste) MADE GROUND comprising stiff (loca (locally pinkish grey) gravelly sandy Cladominated by angular platey clasts of recovery from 3.0m to 3.2m (possibly of (Landfill Waste)	lly firm) brown inated by some I blacktop. 1.4m to 1.5m. Ily firm) dark velly sandy dominated by occasional nts. (Landfill landfill landf	3
		3.60	JP		3.80			MADE GROUND comprising stiff (loca		- - - - -
		4.00	JP					brown (very) gravelly sandy CLAY. Gra angular platey clasts of mudstone and clasts of slag. No recovery from 4.5m t (possibly due to SPT). (Landfill Waste)	occasional to 4.8m	-
	1	₹.00	UI.			İ		Continued on Next Sheet		4 -



	····(g)	,							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-6	
	geo consulting engineering Itd								Sheet 3 of 7	10
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	•
₋ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	03/02/2020	Logged By	/
	347.7	Comple	and l	n Citu Tooting		T			101	
Well	Water Strikes	Depth (m)	Type	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
		4.20 4.50 4.90	JG SPT	N=28 (5,5/6,7,7,8				MADE GROUND comprising stiff (loca brown (very) gravelly sandy CLAY. Gra angular platey clasts of mudstone and clasts of slag. No recovery from 4.5m (possibly due to SPT). (Landfill Waste)	ovel comprises occasional to 4.8m	
		5.20 5.70 5.95 6.00	JP JG SPT	N=17 (9,7/6,3,3,5	5.04			MADE GROUND comprising firm (loca very gravelly sandy CLAY. Gravel com of limestone, mudstone and quartz wit brick and concrete. Soft zone of wet of 5.74m. At 5.9m becoming very sandy of geotextile and plastic. (Landfill Wast	prises mixture h fragments of ay from 5.6m to with fragments	5 —



	:(g)							Borehole N	0.
	000000000				Project No.			ole Log	B19-6	
	geo consulting engineering Itd								Sheet 4 of 1	10
Projec	t Name:	Eales Fa	arm Lai	natili	Project No. GCE00692		Co-ords:		Hole Type BH	•
_ocati	on:	Eales Fa	arm, Ta	mar View Industria	ıl Estate, Salta	ash	Level:		Scale 1:10	
Client		Burcoml	be Hau	lage			Dates:	03/02/2020	Logged By RA	/
	Water	Sample	and Ir	n Situ Testing	Depth	Level	1	2 2		
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
		6.40 6.40	B		6.54			MADE GROUND comprising predomir brown (mottled dark grey) sandy grave containing some organic matter (fossil Gravel dominated by angular platey cl mudstone with occasional slag and bri Occasional cobble size fragments of cl (Landfill Waste)	illy CLAY plant roots). asts of ck fragments. oncrete.	- - - - - - -
		6.80 6.80 6.80	PP PP PP	100.00 112.50 75.00	6.54			MADE GROUND comprising predomir purple (locally light brown) very gravell containing occasional organic matter (i Occasional cobble size clasts of quartz contains some clasts of slag. (Landfill i	y CLAY fossil roots). z. Gravel	
		7.30 7.30 7.30 7.50	JP PP PP	75.00 75.00 N=21 (4,4/5,5,5,6) 7.50			MADE GROUND comprising wet firm v	very gravelly	- - - - -
		7.80	JP					CLAY. Gravel dominated by mudstone brick fragments. (Landfill Waste) Continued on Next Sheet	with occasional	



	(g)							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-6	
	geo consulting engineering Itd								Sheet 5 of 1	10
Projec	t Name:	Eales Fa	arm La	natili	Project No. GCE00692		Co-ords:		Hole Type BH	•
_ocati	on:	Eales Fa	arm, Ta	ımar View Industria	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	03/02/2020	Logged By RA	/
Well	Water	Sample	and li	n Situ Testing	Depth	Level	Legend	Stratum Description	L	
	Strikes	Depth (m)	Туре	Results	(m)	(m)		MADE GROUND comprising wet firm	very gravelly	
					8.10			CLAY. Gravel dominated by mudstone brick fragments. (Landfill Waste)		_
					0.10			MADE GROUND comprising stiff purp with occasional organic matter (plant n specifically at 8.9m. Gravel dominated platey clasts of mudstone with occasio slag fragments. (Landfill Waste)	naterial) by fine angular	- - -
		8.50 8.50 8.50	PP PP PP	100.00 125.00 75.00						- - -
										- - - -
		8.90	JP							-
		9.00	SPT	N=27 (6,7/7,6,7,7	9.00			MADE GROUD comprising stiff dark b gravelly sandy CLAY with low cobble c dominated by angular platey clasts of mudstone with occasional limestone, c fragments. Cobbles comprise limeston	content. Gravel dark green nuartz and brick	9 —
		9.20 9.20	JG JP					(Landfill Waste)		-
		9.40 9.40 9.40	PP PP PP	100.00 150.00 150.00	9.50					_ _ _
								MADE GROUND comprising stiff light slightly sandy very gravelly CLAY with fossil rootlets. Gravel dominated by fin mudstone with occasional quartz and (Landfill Waste)	occasional e clasts of	- -
		9.70 9.70 9.70 9.80 - 11.00	PP PP PP B	100.00 100.00 125.00						- - - -
					10.00					10 —
	j			I	10.00		1	Continued on Next Sheet		10



	(g)	,							Borehole N	0.
	00000000					Bo	reho	ole Log	B19-6	
	geo consulting engineering Itd								Sheet 6 of 1	
Projec	t Name:	Eales Fa	arm La	natili	Project No. GCE00692		Co-ords:		Hole Type BH	•
_ocati	on:	Eales Fa	arm, Ta	amar View Industria	ıl Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Hau	ılage			Dates:	03/02/2020	Logged By	/
		Commis		n City Tooting		Ι			KA	
Well	Water Strikes	Depth (m)	Туре	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
		10.20 10.20 10.20 10.50 10.70	PP PP PP PP PP	100.00 125.00 125.00 N=26 (3,5/6,7,7,6)				MADE GROUND comprising stiff purpl CLAY. Gravel dominated by fine clasts weak mudstone with occasional quartz sandstone. (Possibly reworked mudsto Torpoint Formation)	of extremely and	
	•	11.80 11.80 11.90	JG JP PP	150.00	11.55			Extremely weak cleaved purple MUDS weathering to a very stiff very gravelly easily broken into fine gravel by hand. weathered mudstone of the Torpoint Fo	clay. Mudstone (Completely	- - - - - - -
		12.00	SPT	52 (6,9/52 for 225mi	11)			Continued on Next Sheet		12 —



	(g)							Borehole N	0.
						Bo	reho	ole Log	B19-6	
	geo consulting engineering Itd								Sheet 7 of 1	10
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	:
₋ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	03/02/2020	Logged By RA	/
	Water	Sample	and li	n Situ Testing	Depth	Level			L	
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
					12.40			Extremely weak cleaved purple MUDS weathering to a very stiff very gravelly easily broken into fine gravel by hand. weathered mudstone of the Torpoint Formation weathered mudstone of the Torpoint Formation weak cleaved purple MUDS weathering to clayey gravel. Easily brogravel by hand. Core likely broken up (Completely weathered mudstone of the Formation)	clay. Mudstone (Completely ormation) STONE sken into fine by SPT.	- - - - - - - -
					12.85			Extremely weak cleaved purple MUDS some thin banding of greenish grey me Fractures at 12.8m, 12.9m, 13.14m, 13.14m, 13.14m, 13.14m, 13.14m, 14.15m, 15.15m, 15	udstone. 3.2m and 13.3m ooth planar ture at 13.2m eavage planes) 2.85m to 13.0 g into gravel	13 —
					13.30			Very weak cleaved purple grey MUDS Fractures at 13.43m, 13.66m, 13.8m a plane with smooth planar surface. At indicates three transecting fractures (cleavage plane). Some evidence of fol fracture plane along the cleavage to un Fractures cutting cleavage dipping at redegrees with rough undulating surface staining along fractures. (Mudstone of Formation)	allong cleavage 13.66m surface one along Iding resulting in indulate. oughly 40 to 50 oughly 40 to 50 oughly 40 to 50	- - - - - - -
					13.80			Extremely weak cleaved purple grey M Extremely closely fractured with core to gravel/cobble size clasts 1-3mm thick. dipping roughly 30 to 40 degrees with typically along cleavage planes with plaufaces but occasionally stepped. So of cleavage planes from 13.8m to 14.1 Continued on Next Sheet	oreaking into Cleavage fractures anar rough ome deformation	- - - - - - 14 —



	(g)							Borehole N	0.
	000000000000000000000000000000000000000	Eales Farm Landfill				Bo	reho	ole Log	B19-6	
	geo consulting engineering Itd								Sheet 8 of 1	10
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	03/02/2020	Logged By	/
		Commis		- City Tooting		I			101	
Well	Water Strikes	Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	l	
					14.30			Extremely weak cleaved purple grey M Extremely closely fractured with core to gravel/cobble size clasts 1-3mm thick. dipping roughly 30 to 40 degrees with typically along cleavage planes with pl surfaces but occasionally stepped. Sc of cleavage planes from 13.8m to 14.1 some minor faulting. Secondary fracts low persistence dipping in opposite dir cleavage at 40 to 50 degrees generally planar surfaces but occasionally stepp of the Torpoint Formation) Extremely weak to very weak cleaved MUDSTONE containing occasional thi grey laminations. Fractures at 14.3m, 14.6m, 14.72m, 14.9m, 14.92m along with rough planar surfaces. Secondar dipping 50 to 60 degrees in opposite dicleavage generally with rough undulati surface. Evidence of some deformatic cleavage planes distorted creating cur planes. Fractures infilled with minor dilight brown clay. Weak zone of rock from 15.12m broken into fine gravel clasts. the Torpoint Formation) Very weak purple grey MUDSTONE with the Torpoint Formation of the Torpo	ith some thick more massive pocuring in the control of the control	15 —
						1	1	Continued on Next Sheet		. ັ



	(g								Borehole N	0.
	000000000					Bo	reho	ole Log	B19-6	
	geo consulting engineering Itd								Sheet 9 of 7	10
rojed	t Name:	Eales Fa	arm Lai	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
lient:		Burcomi	oe Hau	lage			Dates:	03/02/2020	Logged By	/
Nell	Water	Sample	and I	n Situ Testing	Depth	Level	Legend	Stratum Description		
.H:	Strikes	Depth (m)	Туре	Results	(m)	(m)	Logona			
					16.90			Very weak purple grey MUDSTONE wigreenish grey laminations. Mudstone rithan overlying deposits with fractures of apparent random orientations with mon surfaces (generally rough undulating/p vertical fracture from 15.73m to 15.9m planar surface and minor wet light brow Weak zone at 15.96m to 16.04m with fine gravel clasts. (Mudstone of the Toi Formation) Very weak cleaved closely fractured pix MUDSTONE. Fracture at 16.3m irregu surface with soft light brown infill. Fractipping at roughly 50 degrees with rou surface and minor clay infill. Fractures 16.6m along cleavage planes dipping in degrees with rough planar surface. So edipping in opposite direction to cleavage degrees with rough planar surface. So staining along fracture planes. Weak a 16.63m to 16.7m and 16.8m to 16.9m weak purple and light greenish grey meathering to gravelly clay. (Mudstone Formation) Very weak to extremely weak cleaved MUDSTONE with some thick light gree laminations. Very closely fractured with typically <10mm to 30mm. Most fracture cleavage planes with smooth planar su 30 degrees with some minor light brow 17.3m fracture cutting cleavage planes roughly 50 degrees with stepped rough (Mudstone of the Torpoint Formation)	more massive occurring in re irregular relanar). Near with rough wn clay infill. occk broken into ropint with rough the rough sture at 16.4m gh planar from 16.5m to oughly 50 cond fracture at roughly 20 me orange cones from of extremely udstone of the Torpoint with smooth point Formation) with some purple emish grey a spacing res along urface dipping at re clay infill. At a dipping at the concept of the roughly at the clay infill.	17 —
				17.80			Very weak thinly cleaved light greenish SILTSTONE. Closely fractured with sp 10-30mm. Fractures generally along cl with planar smooth surface. (Siltstone Formation)	acing roughly eavage planes	- - - - - -	
П.					18.00			Continued on Next Sheet		18 —



	(g	,						Borehole N	0.	
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-6	
	geo consulting engineering Itd							•	Sheet 10 of	
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
ocatio	on:	Eales Fa	arm, Ta	ımar View Industria		ash	Level:		Scale 1:10	
lient:		Burcomb	oe Hau	lage			Dates:	03/02/2020	Logged By RA	у
Nell	Water	Sample	and I	n Situ Testing	Depth	Level	Legend	Stratum Description		
77011	Strikes	Depth (m) 18.00	Type	Results 50 (25 for 95mm/50	(m)	(m)	Logona	End of Borehole at 18.00m		
				` 10mm)						-
										-
										-
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	···· (g	-							Borehole No	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-7	
	engineering Itd						1		Sheet 1 of 1	
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	!
.ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
lient:		Burcom	be Hau	lage			Dates:	17/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Туре	Results	0.25			MADE GROUND comprising firm to sti brown slightly gravelly sandy CLAY wit rootlets and limestone cobble at 0.25m comprises mudstone and limestone wi brick fragments. (Landfill Waste) ODEX arisings of light brown gravelly s with chippings predominantly of mudst quartz and sandstone. (Landfill Waste)	th occasional can be described by the case of the cas	- - - - -
		1.50	SPT	N=15 (1,2/4,4,3,4	1.50					1 —
		1.60	JP	الفراد المراجع				MADE GROUND comprising wet soft tvery gravelly sandy CLAY with occasio Gravel predominantly angular platey cl mudstone with occasional fragments o plastic. Occasional cobble size fragme and mudstone. (Landfill Waste)	nal rootlets. lasts of f blacktop and	- - - -



B19-7 neet 2 of 14	eet 2 of 14 Hole Type	BH Scale	1:10	ogged By RA			ets	-AY. 3 — ional minantly -
B19-							nal rootlets. asts of f blacktop and nts of concrete brown gravelly ne. (Landfill dark greenish el comprises ne, brick, and	andy CLAY. n. Occasional
ole Log				17/02/2020	Stratum Description	Guatum Description	MADE GROUND comprising wet soft to very gravelly sandy CLAY with occasion Gravel predominantly angular platey clamudstone with occasional fragments of plastic. Occasional cobble size fragmer and mudstone. (Landfill Waste) MADE GROUND comprising stiff light to CLAY with cobbles of light green siltstowaste) MADE GROUND comprising very stiff of grey/ black gravely sandy CLAY. Grave mixture of limestone, concrete, mudstoconcrete. Some pieces of tyres, piping, glass. (Landfill Waste)	MADE GROUND comprising wet firm to very gravelly (locally gravelly) slightly so Becoming dark grey from 3.8m to 4.2m organic matter (roots and twigs). Grave
reho	Co-ords:		Level:	Dates:	Legend	Logona		
Во			sn ———		Level	(m)		
	roject No.	CE00692	Estate, Salta:		Depth	(m)	2.55 2.60	2.95
		G	mar View Industrial E	age	Situ Testing	Results	25.00 50.00 50.00 37.50 75.00 75.00	137.50 150.00 162.50
	arm I ar		ırm, Tar	oe Haul	and In	Туре	PP PP PP PP PP JP	PP PP PP
)	Eales Fa		Eales Fa	Burcom	Sample	Depth (m)	2.05 2.05 2.05 2.05 2.45 2.45 2.45 2.50	2.90 2.90 2.90
geo consulting engineering ltd	ect Name:		tion:	t:	Water	Strikes		
	rojec		ocati	lient	Well	VVCII		

Dynamic sample to refusal at 22.1m and rotary cored from 22.3m to 27.3.0mbgl. Borehole installed with four piezometers (19mm diameter 300mm long porous tips) for groundwater monitoring. Piezometer 1 at 27m in sand layer from 26.3m to 27.3m, Piezometer 2 at 18.5m in sand layer from 18.7m to 17.7m, Piezometer 3 at 13.7m in sand layer from 13.0m to 14.0m, and Piezometer 2 at 2.8m in sand layer from 2.0m to 3.0m. Hit water during 15.9m to 17m dynamic sample run, the water then rose



Continued on Next Sheet

4 -

4.00

		1							Borehole N	0.
		Eales Farm Landfill				Во	reho	ole Log	B19-7	
	geo consulting engineering Itd							0	Sheet 3 of	14
Projec	t Name:	Eales Fa	arm La	natili	Project No. GCE00692		Co-ords:		Hole Type BH	:
_ocati	on:	Eales Fa	arm, Ta	ımar View Industria	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	17/02/2020	Logged By RA	/
Well	Water			n Situ Testing	Depth	Level	Legend	Stratum Description	l	
Well	Strikes	4.05 4.05 4.05 4.05 4.10 4.50 4.50 4.50	JP SPT PP P	Results 25.00 50.00 75.00 N=9 (2,1/2,1,3,3) 25.00 37.50 75.00	(m)	(m)	Legend	MADE GROUND comprising wet firm to very gravelly (locally gravelly) slightly is Becoming dark grey from 3.8m to 4.2m organic matter (roots and twigs). Grave angular platey clasts of mudstone with brick and occasional blacktop, concret and chert. (Landfill Waste)	to stiff brown sandy CLAY. 1. Occasional sel predominantly fragments of	5 —
		5.30 5.30 5.30 5.50 5.70 - 6.50 5.70	PP PP PP JP JG SPT	50.00 75.00 75.00 0 (75 for 65mm/0 f 0mm)	5.70 or			ODEX arisings of dark greyish brown of chippings of mudstone. (Landfill Waste	clay with	



	(g)								Borehole N	0.
						Bo	reho	ole Log	B19-7	
	geo consulting engineering Itd								Sheet 4 of 1	
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH)
ocati	on:	Eales Fa	arm, Ta	ımar View Industria	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	ılage			Dates:	17/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	<u> </u>	
	Suikes	Depth (m)	Туре	Results	(111)	(111)	************	ODEX arisings of dark grevish brown of	elav with	
		6.20 6.50 - 8.50 6.50 6.60	PP B SPT JP	125.00 N=21 (4,4/5,5,6,5	6.50			ODEX arisings of dark greyish brown of chippings of mudstone. (Landfill Waster Stiff) brown greyish brown very gravel gravelly) slightly sandy CLAY with occur Gravel comprises mixture of mudstone brick fragments and occasional quartz fragments of brick at 8.0m. (Landfill Waster)	ff (locally very y (locally asional rootlets. t, limestone and c Cobbles size	
		7.00 7.07 7.07 7.07 7.07	JP PP PP PP	100.00 100.00 125.00						7 —
		7.45 7.45 7.50 7.90 7.90 7.90 8.00	PP PP JP PP PP SPT	112.50 75.00 150.00 175.00 200.00	.5) 8.00					-



	···· (g								Borehole No	0.
	00000000					Bo	reho	ole Log	B19-7	
	geo consulting engineering Itd								Sheet 5 of 1	
Projec	ct Name:	Eales Fa	arm Lai		Project No. GCE00692		Co-ords:		Hole Type BH	!
_ocati	ion:	Eales Fa	arm, Ta	mar View Industria	ıl Estate, Salta	sh	Level:		Scale 1:10	
Client		Burcomi	be Hau	lage			Dates:	17/02/2020	Logged By RA	′
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
		8.30 8.40	JP JG	Results		(11)		MADE GROUND comprises brownish clayey GRAVEL locally tending to grav Some fragments of wood (likely from a throughout. Gravel and sand predomir weathered concrete and breeze blocks occasional mudstone. Cobble size frag	relly sandy clay. bld pallets) nantly comprise s with	- - - - -
		8.50 - 9.50	JP		8.50			ODEX arisings of dry light grey clayey gravel with chippings of limestone, mu chert and occasional glass fragments.	dstone and	9
		9.50 - 11.00 9.50	JP SPT	50 (25 for 75mm/50 75mm)	9.50 for			ODEX arisings of dry brown clayey gramudstone and brick fragments. (Landf	avel comprising ill Waste)	-



	····(g))							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-7	
	geo consulting engineering Itd								Sheet 6 of 1	14
Projec	t Name:	Eales Fa	arm La		Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	amar View Industria	l Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	ılage			Dates:	17/02/2020	Logged By	/
		Commis		n City Taating		Ι			101	
Well	Water Strikes	Depth (m)	Туре	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
								ODEX arisings of dry brown clayey gra mudstone and brick fragments. (Landf	avel comprising ill Waste)	
									,	
										_
										_
										_
										-
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										-
										-
										-
										-
		11.00	SPT	50 (6,18/50 for 15mr	n) 11.00			MADE GROUND comprising stiff to ve	ry stiff light	11 —
								brown (locally dark brown) gravelly slig CLAY. Cobble size fragment of concre	te at 11.5m.	-
								Gravel predominantly mudstone with of fragments. (Landfill Waste)	ccasional brick	-
								rragments. (Landilli Waste)		-
		11.20	JG							-
										-
										-
										-
		11.40	JP							-
										-
		11.50 - 12.50	JP		11.50			ODEX arisings of dry clayey sand and	gravel	_
								comprising mudstone, limestone and c fragments of brick. (Landfill Waste)	chert with some	-
								riagnients of brick. (Landill Waste)		-
										-
										-
										-
										_
										_
										_
										_
								Continued on Next Sheet		12 —



	···· (q)							Borehole N	0.
	00000000					Bo	reho	ole Log	B19-7	•
	geo consulting engineering Itd								Sheet 7 of	14
Projec	t Name:	Eales Fa	arm La		Project No. GCE00692		Co-ords:		Hole Type BH)
₋ocati	on:	Eales Fa	arm, Ta	amar View Industria	ıl Estate, Salta	ish	Level:		Scale 1:10	
Client:		Burcom	be Hau	ılage			Dates:	17/02/2020	Logged By RA	у
Well	Water			n Situ Testing	Depth	Level	Legend	Stratum Description	ı	
Well	Strikes	Depth (m) 12.50 - 12.70 12.50	JG SPT	Results	(m)	(m)	Legend	ODEX arisings of dry clayey sand and comprising mudstone, limestone and of fragments of brick. (Landfill Waste) MADE GROUND comprising stiff dark light brown and greenish grey gravelly CLAY. Cobble size fragments of concepted of concepted of the control of the	gravel chert with some brown mottled slightly sandy ete. Gravel nilar to soils II Waste) II Waste) II Waste) II wond and gravel II (Landfill)	13 —
		14.00 - 15.50	В		14.00			Continued on New A Change		- 14 -



***	(a)								Borehole N	0.
000						Bo	reho	ole Log	B19-7	
	consulting neering Itd							3.0 =09	Sheet 8 of 1	14
Project N	Jame.	Eales Fa	arm I aı		Project No.		Co-ords:		Hole Type	
i rojectiv	varric.	Laics i d	aiiii Lai	(GCE00692		00-0103.		BH	
Location:	:	Eales Fa	arm, Ta	mar View Industria	l Estate, Salta	ash	Level:		Scale 1:10	
									Logged By	,
Client:		Burcoml	be Hau	lage			Dates:	17/02/2020	RA	
Well W	Vater	Sample	and Ir	n Situ Testing	Depth	Level	Legend	Stratum Description	า	
St	trikes	Depth (m)	Туре	Results	(m)	(m)	2090	·		
		14.00 14.05 14.05 14.05 14.10 14.10	SPT PP PP PP JP PP PP PP PP	N=17 (3,2/4,4,4,5) 100.00 100.00 125.00				MADE GROUND comprising stiff light gravelly slightly sandy CLAY. Gravel of angular platey mudstone clasts of dar and pink/orange in colour. Very occas rounded/ subangular dark grey limest Waste)	lominated by k grey, light grey ional clast of sub	-
		15.00	JP	150.00						- 15 — - -
		15.30 15.30 15.30 15.30	JG PP PP PP	125.00 150.00 175.00						- - - - -
	•	15.80 15.80 15.80	PP PP PP	100.00 125.00 75.00				Continued on Next Sheet		- - - - - - 16 —



	(1)								Borehole N	0
	000000000		Eales Farm Landfill			Во	reho	ole Log	B19-7	
	geo consulting engineering Itd								Sheet 9 of 7	14
Projec	t Name:	Eales Fa	arm La	natili	Project No. GCE00692		Co-ords:		Hole Type BH	:
_ocati	on:	Eales Fa	arm, Ta	mar View Industria	l Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	17/02/2020	Logged By	/
	M-1	Sample	and li	n Situ Testing	D #	11			KA	
Well	Water Strikes	Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description		
		16.20 16.20	PP PP	175.00 175.00				MADE GROUND comprising stiff light gravelly slightly sandy CLAY. Gravel drangular platey mudstone clasts of dark and pink/orange in colour. Very occasi rounded/ subangular dark grey limesto Waste)	ominated by grey, light grey onal clast of sub	- - - - -
		16.50	JP		16.70					
		16.80 16.80 16.80 16.80 16.90	JG PP PP PP JP	100.00 100.00 100.00	10.70			MADE GROUND comprising stiff light mottled grey gravelly slightly sandy CL singular cobble of dark grey limestone comprises fine clasts of angular platey (Landfill Waste)	AY containing . Gravel	- - - -
		17.00	SPT	N=37 (6,8/8,9,10,10	17.00			MADE GROUND comprising firm to sti mottled light grey and orange gravelly Gravel predominantly angular platey m occasional limestone clast. From 17.9r plastic geotextile/sheeting and some b fragments. (Landfill Waste)	silty CLAY. nudstone with n to 18.0m	17 — - -
		17.20	JG							- -
		17.35 17.35 17.35	PP PP PP	125.00 137.50 75.00						- -
		17.50	JP							- - - -
		17.80 17.80 17.80	PP PP PP	100.00 75.00 75.00						- - - 18 —
	1	-	1 1		1	1	1 1	Continued on Next Sheet		



	(g)					_			Borehole No	0.
	00000000					Bo	reho	ole Log	B19-7	
	geo consulting engineering Itd			D	roject No.		T		Sheet 10 of	
Projec	t Name:	Eales Fa	arm La	natili	CE00692		Co-ords:		Hole Type BH	;
Locati	on:	Eales Fa	arm, Ta	amar View Industrial	Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	ılage			Dates:	17/02/2020	Logged By	/
\\/	Water	Sample	and I	n Situ Testing	Depth	Level		Charles Decembring		
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
		18.05 18.05 18.05	PP PP PP	137.50 150.00 150.00	40.00			MADE GROUND comprising firm to st mottled light grey and orange gravelly Gravel predominantly angular platey n occasional limestone clast. From 17.9 plastic geotextile/sheeting and some b fragments. (Landfill Waste)	silty CLAY. nudstone with m to 18.0m	
					18.20			MADE GROUND comprising soft to fir gravelly (locally very gravelly) slightly swith occasional rootlets. Gravel predoi platey mudstone. (Landfill Waste)	sandy silty CLAY	
	18	18.50 - 19.20 18.50	B SPT	N=47 (10,9/11,18,9,9)						
		18.60	JP							
П		10.00	31							
		18.70 JG 18.95 PP 50.00 18.95 PP 62.50 18.95 PP 75.00 19.00 JP 19.20 MADE GROUND comprising brown motified light grey an								
							19			
		19.40 19.40 19.40 19.50	PP PP PP JP	100.00 150.00 75.00	19.20			MADE GROUND comprising firm to st brown mottled light grey and purple ve slightly sandy CLAY. Gravel comprises mudstone. Singular piece of concrete (Possible reworked mudstone of the To Formation)	ery gravelly s angular platey at 19.5m.	

20.00

Dynamic sample to refusal at 22.1m and rotary cored from 22.3m to 27.3.0mbgl. Borehole installed with four piezometers (19mm diameter 300mm long porous tips) for groundwater monitoring. Piezometer 1 at 27m in sand layer from 26.3m to 27.3m, Piezometer 2 at 18.5m in sand layer from 18.7m to 17.7m, Piezometer 3 at 13.7m in sand layer from 13.0m to 14.0m, and Piezometer 4 at 2.8m in sand layer from 2.0m to 3.0m. Hit water during 15.9m to 17m dynamic sample run, the water then rose

N=39 (5,6/9,7,13,10)



Continued on Next Sheet

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0000	?)				Ro	roho	ole Log	Borehole No B19-7	
geo consultir	99	Eales Farm Landfill Eales Farm, Tamar View Industr			טט		JIE LOG	Sheet 11 of	
Project Nam	e: Eales F	arm La	natili	Project No.		Co-ords:		Hole Type	
				GCE00692				BH Scale	
ocation:	Eales F	arm, Ia	amar View Industria	al Estate, Salta	sh ———	Level:		1:10	
Client:	Burcom	be Hau	ılage			Dates:	17/02/2020	Logged By RA	/
Well Wate Strike			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
Otimo	Depth (m)	Туре	Results	()	()		MADE GROUND comprising firm to sti		
	20.10 20.10 20.10 20.10	PP PP PP	100.00 100.00 75.00				brown mottled light grey and purple ve slightly sandy CLAY. Gravel comprises mudstone. Singular piece of concrete a (Possible reworked mudstone of the To Formation)	angular platey at 19.5m.	- - - -
	20.50 20.50 20.50	PP PP PP	200.00 200.00 200.00	20.30			Stiff to very stiff purple very gravelly sill comprises extremely weak angular pla with some relic structure. (Completely mudstone of the Torpoint Formation)	tey mudstone	- - - -
				20.60			Stiff to very stiff light greenish brown very CLAY. Gravel comprises angular plates siltstone. (Completely weathered intert mudstone and siltstone of the Torpoint	, mudstone and pedded Formation)	- - - -
	24.50	SDT	60 (25 for 75mm)60				Extremely weak cleaved SILTSTONE very clayey fine gravel. Cleavage dippi degrees. (Completely weathered siltsto Torpoint Formation)	ng roughly 20	
	21.50	SPT	60 (25 for 75mm/60 90mm)	for 21.50			Extremely weak cleaved extremely clo light green SILTSTONE with thick light vertical laminations. Very narrow veins quartz and dark reddish-brown mineral deposits) dipping at roughly 40 degree at 22.0m to 22.05m and 22.3 to 22.5m weathered to gravelly clay. (Siltstone of Formation)	brown near (2 to 4mm) of (possible iron s. Weak zones where rock has	



	···· (g	+							Borehole N	0.
	000000000000000000000000000000000000000	Eales Farm Landfill				Bo	reho	ole Log	B19-7	
	geo consulting engineering Itd								Sheet 12 of	
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	*
₋ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	17/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	l	
		Depth (m)	Туре	Results	22.50			Extremely weak cleaved extremely clo light green SILTSTONE with thick light vertical laminations. Very narrow veins quartz and dark reddish-brown mineral deposits) dipping at roughly 40 degree at 22.0m to 22.05m and 22.3 to 22.5m weathered to gravelly clay. (Siltstone of Formation) Extremely weak to very weak cleaved closely fractured light green SILTSTON occasional very narrow quartz veins we black minerals (possibly manganese of present between 22.5m and 22.9m dip 70 degrees. Cleavage near vertical with undulation. Fractures along cleavage spaced (20, 25, 65mm) with planar roubecoming undulating below 23.5m. Mil clay infill and orange staining along fra Occasional fractures cutting cleavage persistence (cut by cleavage plane fra rough stepped surfaces and minor clay of the Torpoint Formation)	extremely NE with ith inclusions of or iron). Veins ping at roughly the slight yery closely ugh surfaces. With low ctures) with	23 —



	····(g))							Borehole N	0.
	000000000	Eales Farm Landfill				Bo	reh	ole Log	B19-7	
	geo consulting engineering Itd								Sheet 13 of	14
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
₋ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	17/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
	Guines	Depth (m)	Туре	Results	24.10			Extremely weak to very weak cleaved closely fractured light green SILTSTON occasional very narrow quartz veins w black minerals (possibly manganese opresent between 22.5m and 22.9m dip 70 degrees. Cleavage near vertical with undulation. Fractures along cleavage was paced (20, 25, 65mm) with planar roubecoming undulating below 23.5m. Miliclay infill and orange staining along fra Occasional fractures cutting cleavage persistence (cut by cleavage plane fra rough stepped surfaces and minor clay of the Torpoint Formation) Very weak cleaved light green SILTST orange and dark reddish-brown lamina narrow quartz veins from 26.2m. Cleavundulating dipping roughly 30 degrees along cleavage planes from 24.5m to 2 spaced (13, 20, 38mm) with undulating surfaces. orange staining along surface 24.3m comprises dark reddish-brown is zone (possible iron concretions). At 24 planar rough surface dipping 60 degree infill at base don mineralised zone. At 25.6m fractures with planar rough surforange staining. Fractures from 26.02r closely spaced (2, 20, 40mm) dipping degrees with rough planar surfaces. (Storpoint Formation)	NE with ith inclusions of r iron). Veins ping at roughly h slight very closely igh surfaces but nor light brown cture surfaces. with low ctures) with of infill. (Siltstone ONE with thick ations and very vage planes . Fractures 25.6m closely grough es. 24.1m to mineralised .3m fracture es with soft clay 25.03m to access and some in to 27.2m very at 40 to 50	25 —
			1	i e	1	1	1	Continued on Next Sheet		



	4								Borehole N	
	9	*					reho	ole Log	B19-7	
	geo consulting engineering Itd								Sheet 14 of	
Projec	t Name:	Eales Fa	arm La	natili	Project No. GCE00692		Co-ords:		Hole Type BH	:
_ocati	on:	Eales Fa	arm, Ta	ımar View Industria	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	17/02/2020	Logged By	/
\A/-II	Water	Sample	and I	n Situ Testing	Depth	Level		Olast as Bassistian	I	
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description Very weak cleaved light green SILTSTo		
		27.30	SPT	50 (25 for 85mm/50 60mm)	for 27.30			very weak reddish-brown lamina narrow quartz veins from 26.2m. Cleav undulating dipping roughly 30 degrees along cleavage planes from 24.5m to 2 spaced (13, 20, 38mm) with undulating surfaces. orange staining along surface 24.3m comprises dark reddish-brown rone (possible iron concretions). At 24 planar rough surface dipping 60 degree infill at base don mineralised zone. At 25.6m fractures with planar rough surface orange staining. Fractures from 26.02r closely spaced (2, 20, 40mm) dipping a degrees with rough planar surfaces. (S Torpoint Formation)	utions and very age planes . Fractures 25.6m closely prough es. 24.1m to mineralised .3m fracture es with soft clay 25.03m to aces and some in to 27.2m very at 40 to 50	27 —



	(g)	,							Borehole N	0.
	000000000000000000000000000000000000000			Project No	Bo	reho	ole Log	B19-8		
	geo consulting engineering Itd								Sheet 1 of	7
Projec	t Name:	Eales Fa	arm Lar	natili	Project No. GCE00692		Co-ords:		Hole Type BH	!
_ocati	on:	Eales Fa	arm, Ta	mar View Industria	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	14/02/2020	Logged By	/
		0		n Situ Testing	<u> </u>	T			INA	
Well	Water Strikes	Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	l	
			7.					Moss over MADE GROUND comprisin brown slightly sandy slightly gravelly s occasional rootlets. Gravel comprises fragments of brick. (Landfill Waste)	ilty CLAY with	- -
		0.40	JP		0.20			MADE GROUND comprising firm brow very gravelly CLAY tending to very clay Gravel predominantly grey angular pla mudstone. (Landfill Waste)	yey gravel.	- - - -
					0.45			MADE GROUND comprising stiff (loca locally mottled yellow brown and grey sandy CLAY. Gravel comprises a mixtus and stone, quartz with fragments of br blacktop. (Landfill Waste)	very gravelly ure of mudstone,	- - - - - -
		0.90 0.90 0.90 1.00	PP PP PP JP	100.00 150.00 175.00						- - 1 -
		1.10 1.10 1.10	PP PP PP	1250.00 150.00 200.00	1.15			MADE GROUND comprising firm to st very gravelly slightly sandy CLAY tend clayey gravel. Gravel dominated by da clasts of mudstone with occasional sai blacktop fragments. (Landfill Waste)	ing to very rk grey angular	- - - - -
		1.50 1.50	JP SPT	N=8 (2,2/3,2,1,2)						- - -
		1.70	JG		1.65			MADE GROUND comprising brown/gr very gravelly slightly sandy (locally sar occasional cobbles of quartz and conc predominantly angular platey mudston limestone, quartz and fragments of co blacktop. Slight odour of hydrocarbons (Landfill Waste)	ndy) CLAY with rete. Gravel e with some ncrete, brick and	- - - - -
		2.00	JP				************	Continued on Next Sheet		2 —



									Borehole N	0.
	00000000		Eales Farm Landfill			Во	reho	ole Log	B19-8	
	geo consulting engineering Itd								Sheet 2 of	
Projec	t Name:	Eales Fa	arm La	natili	Project No. GCE00692		Co-ords:		Hole Type BH	!
ocati	on:	Eales Fa	arm, Ta	ımar View Industria		ash	Level:		Scale	
					•				1:10 Logged By	/
Client:		Burcoml				1	Dates:	14/02/2020	RA	
Well	Water Strikes			n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	ı	
		2.50 2.60 2.60 2.60 2.60 3.00 3.00 3.40 3.40 3.40 3.40 3.40 3.4	Type JP PP PP PP PP B	Results 175.00 200.00 200.00 200.00 150.00 162.50 175.00	(m)		Legend	MADE GROUND comprising brown/gr very gravelly slightly sandy (locally sar occasional cobbles of quartz and conc predominantly angular platey mudston limestone, quartz and fragments of cor blacktop. Slight odour of hydrocarbons (Landfill Waste) MADE GROUND comprising purple m clayey (locally very clayey) fine GRAVI angular platey mudstone clasts. Conta fragments of blacktop with lenses of st from 4.5m. (Landfill Waste)	eyish brown idy) CLAY with rete. Gravel e with some ncrete, brick and at 3.3m. ottled light grey EL comprising ins occasional	3 —
										- - -
	1				1	1	. 7	Continued on Next Sheet		



	(g	,							Borehole N	0.
	000000000000000000000000000000000000000		Eales Farm Landfill			Bo	reho	ole Log	B19-8	
	geo consulting engineering Itd								Sheet 3 of	
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
₋ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	14/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
	Stirkes	4.50 4.50	JP SPT	N=9 (3,3/3,2,2,2				MADE GROUND comprising purple m clayey (locally very clayey) fine GRAV angular platey mudstone clasts. Conta fragments of blacktop with lenses of st from 4.5m. (Landfill Waste) MADE GROUND comprising stiff dark	ottled light grey EL comprising ins occasional iff brown clay	
		5.10 5.20	PP JP	75.00				gravelly (locally very gravelly) CLAY w rootlets. Gravel comprises a mixture o sandstone and fragments of blacktop, occasional pieces of pottery. (Landfill \	f mudstone, concrete with	- - -
		5.30 5.30 5.30 5.35	PP PP PP JG	50.00 50.00 75.00	5.40			Extremely weak cleaved purple mudst to fine GRAVEL. Breaks in hand into fi (Completely weathered mudstone of the Formation)	ne gravel.	- - - -
		5.60	JG							_
		5.70	JP					Continued on Next Sheet		- - - - -



	····(g)	+							Borehole No	0.
	00000000	Eales Farm Landfill				Bo	reho	ole Log	B19-8	
	geo consulting engineering Itd							•	Sheet 4 of	7
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	!
_ocati	on:	Eales Fa	arm, Ta	amar View Industri		tash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	ılage			Dates:	14/02/2020	Logged By	/
									RA	
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
	Suikes	Depth (m) 6.00	Type SPT	Results 50 (25 for 125mm/ for 135mm)	` ′			Extremely weak cleaved purple mudst to fine GRAVEL. Breaks in hand into fi (Completely weathered mudstone of the Formation) Extremely weak cleaved extremely clopurple MUDSTONE. Fractures along cextremely closely spaced (2,10,100mm 60 degrees with planar smooth surface light brown clay infill. Very closely spaced (ight brown clay infill. Very closely spaced (ight brown clay infill. At 6.7 infilled with 5mm thickness of soft light (Mudstone of the Torpoint Formation) Extremely weak to very weak cleaved closely fractured purple MUDSTONE. dipping roughly 50 degrees. Fractures planes extremely closely spaced (7, 70 planar smooth surfaces and minor clay spaced (150, 300, 400mm) near horizu with irregular rough surfaces showing at 7.9m. At 7.45m near vertical steppe fracture. At 8.2m 3mm thick infill of sof clay. Highly fractured zone at 8.45m to mudstone broken into gravel size clast the Torpoint Formation)	extremely Cleavage along cleavage to brown clay. extremely Cleavage along cleavage along cleavage or, 120mm) with y infill. Medium ontal fractures low persistence ad rough t it light brown to 8.49m with	7 —
								Continued on Next Sheet		- - - - 8 —



	(g)							Borehole No	0.
	00000000					Bo	reho	ole Log	B19-8	
	geo consulting engineering Itd								Sheet 5 of	-
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocati	on:	Eales Fa	arm, Ta	amar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
lient:		Burcomi	be Hau	ılage			Dates:	14/02/2020	Logged By RA	<i>'</i>
 Nell	Water	Sample	and I	n Situ Testing	Depth	Level	Legend	Stratum Description		
	Strikes	Depth (m)	Туре	Results	(m)	(m)	2090.10	Extremely weak to very weak cleaved	extremely	
								closely fractured purple MUDSTONE. dipping roughly 50 degrees. Fractures planes extremely closely spaced (7, 70 planar smooth surfaces and minor clay spaced (150, 300, 400mm) near horizc with irregular rough surfaces showing at 7.9m. At 7.45m near vertical steppe fracture. At 8.2m 3mm thick infill of sof clay. Highly fractured zone at 8.45m to mudstone broken into gravel size clast the Torpoint Formation)	Cleavage along cleavage b, 120mm) with r infill. Medium ontal fractures low persistence dr rough t light brown 8.49m with	9
								Continued on Next Sheet		- 10 —
	1		ı	i .	1	1	1 1			ı I



	(g)								Borehole N	0.
	000000000					Bo	reho	ole Log	B19-8	
	geo consulting engineering Itd								Sheet 6 of	7
Projec	t Name:	Eales Fa	arm Laı	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	:
_ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	14/02/2020	Logged By RA	/
	10/2422	Sample	and li	n Situ Testing	Danth	Lavial				
Well	Water Strikes	Depth (m)	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description	l	
		Dopar (iii)	Type	TKOSUIGO	10.10			Extremely weak to very weak cleaved closely fractured purple MUDSTONE. dipping roughly 50 degrees. Fractures planes extremely closely spaced (7, 70 planar smooth surfaces and minor clay spaced (150, 300, 400mm) near horizz with irregular rough surfaces showing at 7.9m. At 7.45m near vertical steppe fracture. At 8.2m 3mm thick infill of sof clay. Highly fractured zone at 8.45m to mudstone broken into gravel size clast the Torpoint Formation) Extremely weak cleaved purple MUDS weathering into fine gravelly clay. Top with roughly undulating surface and 3-of soft clay. (Mudstone of the Torpoint Extremely weak cleaved very closely fMUDSTONE. Fractures along cleavag closely spaced (20, 20, 130mm) with psurfaces and minor clay infill. At 10.6m fractures with irregular (undulating rou (Mudstone of the Torpoint Formation) Extremely weak to very weak cleaved fractured purple MUDSTONE with occ (5-10mm long) of orange brown mudst along cleavage dipping 50 degrees ve spaced (5, 20, 80mm) with planar smo and minor light brown clay infill.	Cleavage along cleavage), 120mm) with y infill. Medium ontal fractures low persistence ed rough t light brown 8.49m with s. (Mudstone of iTONE contact irregular 4mm thick infill Formation) ractured purple e planes very lanar rough and 10.75m gh) surfaces.	11 —
. <u>.H.</u> .								Continued on Next Sheet		12 —



	(g))							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-8	
	geo consulting engineering Itd							•	Sheet 7 of	7
Projec	t Name:	Eales F	arm Lar	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Taı	mar View Industri		ısh	Level:		Scale 1:10	
Client:		Burcom	be Haul	age			Dates:	14/02/2020	Logged By	/
									RA	1
Well	Water Strikes	Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description		
					13.65			Extremely weak to very weak cleaved fractured purple MUDSTONE with occ (5-10mm long) of orange brown mudst along cleavage dipping 50 degrees ve spaced (5, 20, 80mm) with planar smo and minor light brown clay infill. Very weak cleaved closely fractured pth MUDSTONE with narrow (10mm) quair roughly 80 degrees and very closely signed black mineral inclusions (possible Fractures along cleavage planes close 200, 380mm) with planar rough surfact 13.1m to 13.2m, rock broken into med clasts with some light brown clay infill. fracture from 13.2m to 13.5m with und surface and some soft light brown clay (Mudstone of the Torpoint Formation)	asional lenses tone. Fractures ry closely oth surfaces urple trtz veins dipping paced with le manganese). ely spaced (5, e. Weak zone at ium gravel Near vertical ulating rough infill.	13 —



	q	-							Borehole No.	
						Bo	reho	ole Log	B19-9	
	engineering Itd								Sheet 1 of 10	
Projec	t Name:	Eales Fa	arm Laı	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	sh	Level:		Scale 1:10	
lient:		Burcom	be Hau	lage			Dates:	10/02/2020	Logged By RA	
Well	Water Strikes			n Situ Testing	Depth (m)	Level	Legend	Stratum Description		
	STRIKES	0.30 0.30 0.30 0.30 0.50	Туре РР РР РР РР ЭР	100.00 100.00 100.00 100.00 50.00 62.50	(m)	(m)		Moss over MADE GROUND comprisir brown slightly sandy very gravelly CLA occasional cobble size fragments of co Occasional organic matter (roots and the top 0.5m. Gravel comprises mixtur blacktop mudstone and brick. (Landfill	ig firm to stiff YY with oncrete. ootlets) within e of concrete, Waste)	1 —
		1.50 1.50 1.80	JP SPT	N=21 (1,4/4,5,6,6)					- - - -
					1.90			MADE GROUND comprising very soft grey slightly sandy slightly gravelly CL organic odour. Gravel comprises angu	AY with a slight	-
		2.00	JP							2 -



	g	·							Borehole No	0.
	000000000000000000000000000000000000000	Eales Farm Landfill				Bo	reho	ole Log	B19-9	
	geo consulting engineering Itd								Sheet 2 of 1	
Projec	t Name:	Eales F	arm Lai	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
₋ocati	on:	Eales F	arm, Ta	mar View Industria	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	10/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m) 2.00 2.00 2.00 2.00	Type PP PP PP	Results 12.50 12.50 25.00	()	()		MADE GROUND comprising very soft grey slightly sandy slightly gravelly CL organic odour. Gravel comprises angu of mudstone. (Landfill Waste)	AY with a slight	- - - -
		2.30 2.30 2.55	PP PP	12.50 25.00	2.50			MADE GROUND comprising firm light gravelly CLAY. Gravel dominated with	angular platey	- - -
		2.55 2.55 2.60 2.70	PP PP JP JG	50.00 750.00				mudstone with occasional quartz. No r 3m to 4m. Zone of brown clay with gra fragments of brick from 4m to 4.3m. (L	vel size	- - - -
		3.00	SPT	N=15 (2,2/3,4,4,4						3 —
		4.00	JP					Continued on Next Sheet		4 —



	····(g)								Borehole N	0.
	000000000000000000000000000000000000000	Eales Farm Landfill				Bo	reho	ole Log	B19-9	
	geo consulting engineering Itd								Sheet 3 of 7	
Projec	t Name:	Eales Fa	arm La		Project No. GCE00692		Co-ords:		Hole Type BH	!
₋ocati	on:	Eales Fa	arm, Ta	ımar View Industria	ll Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	10/02/2020	Logged By RA	/
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
		4.35 4.35 4.35 4.35	PP PP PP	100.00 100.00 125.00				MADE GROUND comprising firm light gravelly CLAY. Gravel dominated with mudstone with occasional quartz. No r 3m to 4m. Zone of brown clay with gra fragments of brick from 4m to 4.3m. (L	angular platey ecovery from vel size	- - - - - -
		5.00 5.00 - 7.30	JP B	N=39 (5,7/7,10,11,1	1) 4.50			MADE GROUND comprising soft to vergreenish brown sandy gravelly CLAY verbbles of brick and concrete. Gravel or mixture of granite and mudstone with brick and concrete. No recovery from 6 Firm zone from 6.7m to 6.9m. (Landfill)	vith occasional comprises a fragments of 6m to 6.25m.	5 —
		5.50 5.60	JP JG							- - -
		5.90	JP	N=9 (4.2/2.2.2.3)						- - - -



	_									
	<u>(g</u>)				Do	robe		Borehole N	
	geo consulting					DU	rend	ole Log	B19-9 Sheet 4 of 7	
ojec	t Name:	Eales Fa	arm La		Project No.		Co-ords:		Hole Type	
		Falsa Fa	arm Ta		GCE00692	a la	Level		BH Scale	
ocatio	JII.			ımar View Industria	ii Estate, Saita	ISH	Level:		1:10 Logged By	.,
ient:		Burcoml	be Hau	lage			Dates:	10/02/2020	RA	y
Vell	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
vell	Strikes	6.30 6.50	JG	Results	(m)	(m)	Legend	MADE GROUND comprising soft to ve greenish brown sandy gravelly CLAY we cobbles of brick and concrete. Gravel of mixture of granite and mudstone with 1 brick and concrete. No recovery from 6 Firm zone from 6.7m to 6.9m. (Landfill)	ery soft dark with occasional comprises a ragments of 6m to 6.25m.	-
		7.50 7.50 7.50	JP SPT JG	N=25 (1,3/4,4,3,14	7.30			MADE GROUND comprising firm light slightly sandy gravelly CLAY. Gravel or mudstone with occasional sandstone a fragments. No recovery from 7.7m to 8 sampling refused at 8m. (Landfill Wast	omprises and concrete am. Dynamic	7 —



	· (a)								Borehole N	0.
	000000000000000000000000000000000000000			Project No.			reho	ole Log	B19-9	
	geo consulting engineering Itd								Sheet 5 of	10
Projec	t Name:	Eales Fa	arm La	natili	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	ımar View Industria	al Estate, Salta	ısh	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	10/02/2020	Logged By	/
Well	Water	Sample	and I	n Situ Testing	Depth	Level	Legend	Stratum Description	I	
	Strikes	9.00 - 10.50 9.00 9.10 9.30 9.30 9.30 9.40	B SPT JP PPP JG	Results N=20 (4,6/5,5,5,5 75.00 75.00 75.00 75.00	9.00	(m)		ODEX arisings of brown clay with som fragments. (Landfill Waste) MADE GROUND comprising firm (loca slightly sandy very gravelly CLAY with content. Cobbles comprise granite, corbrick. Gravel comprises a mixture of m concrete, blacktop and occasional gran Waste)	ally stiff) brown medium cobble ncrete and udstone, brick,	9 —



	(g)	,							Borehole N	0.
	00000000					Bo	reho	ole Log	B19-9	
	geo consulting engineering Itd							•	Sheet 6 of	10
Projec	t Name:	Eales Fa	arm Laı	natili	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	mar View Industria	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	10/02/2020	Logged By RA	/
	10/-1	Sample	and l	n Situ Testing	D II.	1				
Well	Water Strikes	Depth (m)	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description		
		10.30 10.30 10.30 10.30 10.40 10.50 10.60 10.60 10.70 10.80 10.80 10.90	PP	100.00 125.00 150.00 N=17 (1,3/3,3,5,6 50.00 50.00 75.00) 10.50			MADE GROUND comprising firm (loca slightly sandy very gravelly CLAY with content. Cobbles comprise granite, colbrick. Gravel comprises a mixture of m concrete, blacktop and occasional granwaste) MADE GROUND comprises firm (with and stiff) gravelly silty CLAY with occas wood (fragments of old planks and pal comprises mudstone and sandstone w broken glass and fragments of plastic.	medium cobble norete and sudstone, brick, nite. (Landfill lenses of soft siles). Gravel ith occasional	
		11.15	JP		11.10			MADE GROUND comprising firm to sti brown slightly sandy gravelly CLAY. Grandstone and concrete fragments. (La ODEX arisings of brown clay with som concrete fragments. (Landfill Waste) Continued on Next Sheet	ravel comprises andfill Waste)	



	····(g)							Borehole N	0.
	00000000					Bo	reho	ole Log	B19-9	
	geo consulting engineering Itd								Sheet 7 of 1	10
Projec	ct Name:	Eales Fa	arm La	natili	Project No. GCE00692		Co-ords:		Hole Type BH	:
_ocati	ion:	Eales Fa	arm, Ta	ımar View Industria	l Estate, Salta	ısh	Level:		Scale 1:10	
Client	:	Burcoml	be Hau	ılage			Dates:	10/02/2020	Logged By	/
		0		o Oito To otio o		T			KA	
Well	Water Strikes	Depth (m)		n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	ı	
		12.00	SPT	51 (9,15/51 for 165mm)				MADE GROUND comprising stiff purp clayey GRAVEL with lenses of stiff clay comprises brick and concrete with son granite and blacktop fragments. Occas size fragments of granite and brick. (La	y. Gravel ne mudstone, sional cobble	_
		12.15	JP							_
		12.25 - 12.50	JG		12.25			ODEX arisings predominantly fragmer concrete with occasional chert and mu Waste)	ts of brick and dstone. (Landfill	- - - - -
					12.75			ODEX arisings of platey angular grave mudstone. (Possibly reworked or weat mudstone of the Torpoint Formation)		13 —
		13.30	SPT	0 (75 for 115mm/0 f	or 13.30			Extremely weak cleaved extremely clo purple (locally light greenish grey) MUI weathering to clayey fine gravel of plat clasts. Cleavage dipping roughly 20 de (Completely weathered mudstone of the Formation) Continued on Next Sheet	DSTONE tey mudstone egrees.	



	(g)							Borehole N	0.
	000000000000000000000000000000000000000					Bo	reho	ole Log	B19-9	
	geo consulting engineering Itd								Sheet 8 of 7	10
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcom	be Hau	lage			Dates:	10/02/2020	Logged By RA	У
Well	Water			n Situ Testing	Depth (m)	Level	Legend	Stratum Description		
	Strikes	Depth (m)	Туре	Results	14.20	(m)		Extremely weak cleaved extremely clopurple (locally light greenish grey) MUI weathering to clayey fine gravel of plat clasts. Cleavage dipping roughly 20 de (Completely weathered mudstone of the Formation) Extremely weak cleaved extremely clopurple MUDSTONE. Fractures along cextremely closely spaced (<1, 10, 50m planar with minor clay infill. Fractures cleavage extremely closely spaced (3, very low persistence typically cut by fracteavage planes. fracture surfaces typ smooth but locally planar. Occasional brown clay. Weak zones from 14.35m 14.85m to 14.95m of rock weathered to (Mudstone of the Torpoint Formation) Very weak cleaved very closely fracture mudpers of the total planar of the total planar. Occasional brown clay. Weak zones from 14.35m 14.85m to 14.95m of rock weathered to (Mudstone of the Torpoint Formation) Very weak cleaved very closely fracture mudpers of the total planar. Occasional brown clay infaces. Minor light from the first planar of the total planar of the first plana	sely fractured DSTONE tey mudstone to 10, 70mm) but actures along to 10, 70mm) but actures along to 10, 70mm) but actures along to 11, 70mm to 12, 42m and to 14.42m and to clayey gravel.	15 —
								Continued on Next Sheet		16 —



	····(q	+							Borehole N	0.
	000000000					Bo	reho	ole Log	B19-9	
	geo consulting engineering Itd								Sheet 9 of 1	10
Projec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	;
_ocati	on:	Eales Fa	arm, Ta	ımar View Industri	al Estate, Salta	ash	Level:		Scale 1:10	
Client:		Burcoml	be Hau	lage			Dates:	10/02/2020	Logged By RA	/
	Water	Sample	and li	n Situ Testing	Donth	Lovel			<u> </u>	
Well	Strikes	Depth (m)	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description		
								Very weak cleaved very closely fractur MUDSTONE. Cleavage dipping 40 to 5 Two main fracture sets. The first very closely spaced (20, 25, 160mm) along planes dipping 40 to 50 degrees with p (occasionally rough) surfaces. Minor lii infill. The second set medium spaced cutting across cleavage planes. Fracturough stepped with some clay infill. Fr 14.85m dipping at 20 to 30 degrees algreenish grey band with some soft ligh infill. Fracture at 15.5m steeply dippin degrees with planar rough surface and light brown clay. At 16.93 50mm thick light brown clay infill dipping roughly 2 (possible bedding contact). Slight weat to 18.9m of extremely weak mudstone clayey gravel. (Mudstone of the Torpoi	50 degrees. closely to cleavage olanar smooth ght brown clay (70, 200, 600) are surfaces racture at ong top of light at brown clay g at roughly 70 l infill of soft layer of soft 0 degrees k zone at 18.7m weathering to	17 —



	g								Borehole No.	
	000000000					Bo	reho	ole Log	B19-9	
	geo consulting engineering Itd								Sheet 10 of	
rojec	t Name:	Eales Fa	arm La	ndfill	Project No. GCE00692		Co-ords:		Hole Type BH	
ocati	on:	Eales Fa	arm, Ta	mar View Industri	al Estate, Salta	sh	Level:		Scale 1:10	
lient:		Burcomb	oe Hau	lage			Dates:	10/02/2020	Logged By RA	,
Nell	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results	19.10			Very weak cleaved very closely fractur MUDSTONE. Cleavage dipping 40 to 5 Two main fracture sets. The first very closely spaced (20, 25, 160mm) along planes dipping 40 to 50 degrees with p (occasionally rough) surfaces. Minor liginfill. The second set medium spaced (cutting across cleavage planes. Fracturough stepped with some clay infill. Fr 14.85m dipping at 20 to 30 degrees along reenish grey band with some soft ligh infill. Fracture at 15.5m steeply dipping degrees with planar rough surface and light brown clay. At 16.93 50mm thick light brown clay infill dipping roughly 20 (possible bedding contact). Slight weal to 18.9m of extremely weak mudstone clayey gravel. (Mudstone of the Torpoin surface) when the first properties of the torpoin surface and the first properties of the torpoin surface and the first properties of the first p	50 degrees. closely to cleavage olanar smooth ght brown clay (70, 200, 600) ire surfaces acture at ong top of light t brown clay g at roughly 70 infill of soft layer of soft 0 degrees k zone at 18.7m weathering to	19 —

Remarks

Dynamic sample to refusal at 12.25m, ODEX drilling from 12.25m to 13.3m and rotary cored from 13.3m to 19.1mbgl. Borehole installed with four piezometers (19mm diameter 300mm long porous tips) for groundwater monitoring. Piezometer 1 at 18.9m in sand layer from 18.0m to 19.1m, Piezometer 2 at 12.4m in sand layer from 11.6m to 12.4m, Piezometer 3 at 10.2m in sand layer from 9.4m to 10.4m, and Piezometer 4 at 6.2m in sand layer from 5.4m to 6.4m.





Trial Pit No. **TP01**

Project Nor. Eales Farm 12933 Control Level: 0.00 m AOD 21/04/2016 Control Saturation: 340 Degrees Depth (n) Type No Results/Remarks (m) m AOD 1.00 1 - 1.00 MADE GROUND comprising residue dense dark gray slightly dayey angular clast supported (main storing muditum dense dark gray slightly dayey angular clast supported (main mustacles) and defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported (main mustacles) and defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported (main mustacles) and defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported (main mustacles) and defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported (main mustacles) and defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported (main mustacles) and defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported (main mustacles) and defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported (main mustacles) and medium dense dark gray slightly dayey angular clast supported (main mustacles) and medium dense dark gray slightly dayey angular clast supported (main mustacles) and mustacles are and control mustacles. AMADE GROUND comprising dense light gray dayey angular clast supported defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported defined interlocking touture. Clasts are medium dense dark gray slightly dayey angular clast supported defined interlocking touture.		ARTNERS	PHID WWW	.johngrimes.co.uk	Sheet 1 of 1
Eales Farm 12933 Levit 0.00 m AQD 21/04/2016	Project Name:		Project No:	Co-ords: 0E - 0N	
Saltash Ciner: Downderry Construction Ltd Samples & In Situ Testing Depth (m) Type No Results/Remarks In Situ Testing Depth (m) Type No Results/Remarks MADE GROUND comprising draws light gray clayey angular clast supported (MG) MADE GROUND comprising medium dense dark gray slightly clayey angular clast supported class supported GRAVEL. Clasts are medium class are randomly orientated, tabular to example and the class are randomly orientated, tabular to example strong mudistorie. (MG) MADE GROUND comprising medium dense dark gray slightly clayey angular clast supported GRAVEL. Clasts are medium. 1 - 1.00 MADE GROUND comprising medium dense dark gray slightly clayey angular clast supported dense interiocking texture. Clasts are medium. 2 - 2 - 3 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	Eales Farm		12933		21/04/2016
Santas Cicer Downderry Construction Ltd Cicer Downderry Construction Ltd Cicer Cic	Location:			Dii	Scale:
Samples & In Strut Testing Depth (m) Type No Results/Remarks Manual Performance Manua	Saltash				1:25
Samples & In Strut Testing Depth (m) Type No Results/Remarks Manual Performance Manua	Client:			340 Degrees	Logged by:
Popular Popu				0.	RS
MADE GROUND comprising dense light gray dayey angular clast supported medium strong mudsione GRAVEL. Glasts are randomly orientated, tabular to equant showing a well defined interlocking texture. Clasts are medium strong mudsione. (MG) 2- 2- 3- 2-250 2-50 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3		Depth Level	Legend	Stratum Description	Ground Water
General Remarks: Method/Plant Used: Tracked excavator Groundwater: None encountered Shoring / Stability: Stable	Downderry Construction Ltd Samples & In Situ Testing	(m) m AOD	MADE GROUN medium strong (MG) MADE GROUN clast supported equant showing strong mudstor	Stratum Description ID comprising dense light grey clayey angular clast mudstone GRAVEL. ID comprising medium dense dark grey slightly clay I GRAVEL. Clasts are randomly orientated, tabular g a well defined interlocking texture. Clasts are mene.	yey angular of dium
General Remarks: Method/Plant Used: Tracked excavator Groundwater: None encountered Shoring / Stability: Stable		-			-
Groundwater: None encountered Shoring / Stability: Stable	General Remarks:			Method/Plant Used: Tracked excavator	*
	Groundwater: None encountered			Shoring / Stability: Stable	



Trial Pit No. TP02

	PARIN	ピスン	HIID	www.	Jonngrin	nes.co.uk		Sheet	1 of 1
Project Name:			Project No):	Co-ords: _			Date:	
Eales Farm			12933	3	Level: _			21/04/2	016
Location:					Dimensions:	2.50m		Scale:	
Saltash								1:25	
Client:						Orientation 290 Degree		Logged by:	
Downderry Construction	Ltd					O		RS	
Samples & In Situ Testing	Depth	Level			_				Ground
Depth (m) Type No Results/Re	emarks (m)	m AOD	egend			m Description			Water Level
Deptri (m) Type NO Results/Resul	2.50	TOO I	M/ me (M	ADE GROUN	D comprising den mudstone GRAVI	se light grev clavev and	lightly clayey d, tabular to	angular	
General Remarks:			Method/Plant Lie	ed: Tracked excavato	Ar.		- CZ		
					carour lant Os	ITACKEU EXCAVATO	Л		SCA WIGO
Groundwater: None encountered					Shoring / Stabilit	y: Stable			P HONGE



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Project Name:				7 - 1			Pro	ject No:		Co-ords: _					Date		
Eales F	arm						12	2933		Level: _					2	21/04/2	016
Location:										Dimensions:		2.5	50m		Scale		
Saltash	1										ш		ntatio			1:25	
Client: Downd	erry C	`onei	ruction	l td							0.70m	70 D	egre	es	Logg	ed by:	
	oles & In			Liu	Depth	Level										RS	Ground
Depth (m)	Туре		Results/Re	emarks	(m)	m AOD	Legend					cription					Water Level
					2.70			sup	ported GRA wing a well dstone.	D comprising me VEL. Clasts are defined interlock	randomling textu	ly orientat	ed, tal	bular to ed	quant		-1 -12
					4												
General Rema	arks:					+	-			Method/Plant U	^{Jsed:} Tra	icked exc	cavat	or			+ 100
Groundwater	None	onca	ıntorod							Shoring / Stabil	lity: Ctal	alo.					
Groundwater:	None	encol	ıntered							Shoring / Stabil	wy: Stat	oie					no vo



		Ш		PA	RI	NE	RS	HIL	>	www	.johngri	mes	.co.u	ık		S	heet 1 of	f 1
Project Name:				7 - 4					ect No:		Co-ords: _					Date:		
Eales F	arm							12	2933		Level: _						/04/2016	<u>;</u>
Location: Saltash	1										Dimensions:	٦		0m ntation:		Scale:	1:25	
Client:												0.70m		egrees		Logged		
Downd	erry C les & In			Ltd	·												RS Grou	ınd
Depth (m)	Type		Results/Re	emarks	Depth (m)	m A	oD Le	egend				um Desc	•				Wate Leve	er el
General Rema	ırks:				2.80	1			MAD supp show	DE GROUN oorted GRA ving a well stone.	D comprising me e GRAVEL. D comprising me NVEL. Clasts are defined interlock Method/Plant t	edium de random! king textu	ense light ly orientatere. Clasts	brown cled, tabus are me	layey ang lar to equ dium stro	gular clast lant		BASE 3.1 (BH 426.72) Sandard Trialpit Log v2 dated 27th Nov. 03
																		1 (Bld 4;
Groundwater:	None 6	encou	ntered			_		_			Shoring / Stabi	ility: Stab	ole	_				oleBASE 3.1



Trial Pit No. **TP05**

ct Name:			Project No:	Co-ords: _		Date:	
ales Farm			12933	Level: _		21/04/20	16
_{iion:} altash				Dimensions:	2.50m	Scale: 1:25	
t				0.70m	Orientation: 20 Degrees	Logged by:	
ownderry Construc	tion Ltd			0	20 Degrees	RS	
Samples & In Situ Testi		Level Leger	nd	Stratum Desc	rintion	G	Grou Wate
th (m) Type No Resi	llts/Remarks (m)	m AOD Leger	MADE GROU	JND comprising medium der		I	Leve
	1.30		strong mudst (MG) MADE GROU supported G	JND comprising medium der RAVEL. Clasts are randomly all defined interlocking texture.	nse light brown clayey and orientated, tabular to eque. Clasts are medium stro	gular clast uant ong	1 2
ral Remarks:				Method/Plant Used: Trac	cked excavator		_

00000	(g)					_		TrialPit	
						l r	rial Pit Log	TP0	
geo consu engineerir				Desi	and Nin		Ca and 244202 00 00444 00	Sheet 1	
Proje Name	ct e: Eales Far	m Land	fill		ect No. E00692		Co-ords: 241293.00 - 60441.00 Level:	Date 22/08/20	
		m Tam	ar View Industrial I				Dimensions 3.00	Scale)
					ailasii		(m): OEpth C	1:25 Logge	
Client							3.80	RA	u
Water Strike			Situ Testing	Depth	Level (m)	Legend	Stratum Description		
	Depth	Туре	Results	(m)	(111)		MADE GROUND comprising soft to firm friable bi	rown	
	0.25	ES		0.40			sandy gravelly CLAY with some roots and occasic plastic sheeting. Gravel comprises mudstone and sandstone (LANDFILL WASTE). MADE GROUND comprising dense purple (locall grey) slightly sandy clayey GRAVEL with occasio fragments concrete. Gravel comprises medium w mudstone clast in random orientations. Rebar an occasional plank of wood at around 2.4m (LANDFWASTE).	ly light nal veak d	1
									2
	3.10	ES		2.80			MADE GROUND comprising medium dense purp mottled light grey slightly sandy very clayey GRA' tending to very gravelly CLAY with occasional pla material and rebar (LANDFILL WASTE).	VEL	3
	3.70	ES		3.80			End of Pit at 3.80m		4
									5 —

Remarks: No groundwater encountered. Trial pit stopped at 3.8m as reached target depth.



	(9)					_		TrialPit N	
	•••					l r	rial Pit Log	TP02	
geo cons engineerii	uiting ng Itd							Sheet 1 c	of 1
Proje Name		m Land	fill	-	ect No.		Co-ords: 241277.00 - 60416.00	Date	40
					00692		Level: 2 Dimensions 2.60	22/08/20 ⁻ Scale	16
Locat	ion: Eales Far	m, Tam	ar View Industrial	Estate, S	altash		()	1:25	
Clien	t: Burcombe	Haula	ge				(m):	Logged RA	
er (e	Samp	oles & In S	Situ Testing	Depth	Level			IVA	
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
	0.15	ES		0.20			MADE GROUND comprising firm friable sandy grave CLAY with abundant roots and metal piping, brick and concrete fragments. Gravel comprises angular to subangular sandstone, quartz and mudstone (LANDF WASTE). MADE GROUND comprising firm to stiff brown slightl sandy very gravelly CLAY with occasional brick fragments rebar and roots. Gravel comprises angular mudstone with some subangular sandstone (LANDFI WASTE). MADE GROUND comprising dense purple (locally lig grey) slightly clayey GRAVEL with medium to high co content of platey angular mudstone (LANDFILL WAS	filLL rilly rillL ght obble STE).	1 —
	2.30	ES		1.70			MADE GROUND comprising loose to medium dense purple (locally light grey) clayey GRAVEL with occasi cobbles of platey mudstone and subrounded granite. Gravel comprises angular platey mudstone. Some plasheeting, wooden planks and concrete blocks below 2.7m (LANDFILL WASTE).	ional lastic	2 —
	3.10	ES							3
				4.00			End of Pit at 4.00m		4

Remarks: No groundwater encountered. Trial pit stopped at 4.0m as reached target depth.

Stability: Some side collapse in the cobbly gravel layer.



	<u></u>						TrialPit	No
	(9)					T		
geo consu	lting					11	rial Pit Log TP0 Sheet 1	
Proje	ct		e	Proj	ect No.		Co-ords: 241246.00 - 60376.00 Date	-
Name		m Land	fill	GCI	E00692		Level: 22/08/20	016
Locat	ion: Eales Far	m, Tam	ar View Industrial Est	ate, S	altash		Dimensions 3.20 Scale (m): 1:25	
Client	: Burcombe	Haula	70				(m):	
			Situ Testing ,				4.20 RA	
Water Strike	Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	
	Bopui	1,700	results				MADE GROUND comprising bricks, wooden posts,	
	0.70	ES		2.00			concrete, rebar, and metal sheeting. Firm to stiff slightly sandy clayey GRAVEL with occasional roots. Gravel comprises mudstone, sandstone, granite and quartz (LANDFILL WASTE).	1
	2.20	ES		2.00			MADE GROUND comprising dense yellowish brown clayey sandy GRAVEL with fragments of black top, bricks and concrete along with metal sheeting and rebar. Occasional wooden planks and plastic sheeting (LANDFILL WASTE).	-
				2.70			MADE GROUND comprising soft very dark brown to black slightly sandy CLAY with abundant organic matter	
	2.85	ES		4.20			and musk odour (LANDFILL WASTE). MADE GROUND comprising medium dense purple clayey GRAVEL with occasional boulders. Gravel comprises platey angular mudstone. Possible reworked Torpoint Formation (LANDFILL WASTE).	3
								5

Remarks: No groundwater encountered. Trial pit stopped at 4.2m as reached target depth.

Stability: Some voids noted between the in-situ rubble in trial pit side walls.



geo consu	g tting 1td					Tr	rial Pit Log	TrialPit TP04 Sheet 1	4
Projec Name	t Eales Far	m Land	fill		ect No. E00692		Co-ords: 241231.00 - 60403.00 Level:	Date 22/08/20	
		m. Tama	ar View Industrial Est				Dimensions 3.30	Scale	;
Client							(m): 08	1:25 Logge	
			Situ Testina	Depth	Level	l	3.60	RA	
Water	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
	0.60	ES					MADE GROUND comprising firm to stiff light brow slightly sandy very gravelly CLAY with some roots. comprises angular to subangular of mudstone, gra and occasional sandstone (LANDFILL WASTE).	Gravel	1 —
	1.20	ES		1.10			MADE GROUND comprising medium dense dark slightly sandy very clayey GRAVEL with high conte organic matter, including large tree branch (1.4m le and tree stump. Gravel comprises mudstone grani sandstone along with occasional brick and concre fragments (LANDFILL WASTE).	ent of ong) te and	
	2.10	ES		2.60			MADE GROUND comprising firm wet light brown s sandy very gravelly CLAY. Gravel comprises angul mudstone (LANDFILL WASTE).	slightly ar	2
	3.50	ES		3.40 3.60			MADE GROUND comprising medium dense purplications of mudstone. (and plastic matting at 3.5m (LANDFILL WASTE). End of Pit at 3.60m	e Car tyre	3 1 1 1 1 1 1 1 1 1

Remarks: No groundwater encountered. Trial pit stopped at 3.6m as reached target depth.

Stability: Large scale wall collapse.



aeo consu	g					Tr	rial Pit Log TrialPit	5
engineerin	g Itd			Proi	ect No.		Co-ords: 241256.00 - 60434.00 Date	
Project Name	Eales Fari	m Land	fill		E00692		Level: 22/08/2	
Locat	ion: Fales Far	m Tam	ar View Industrial E				Dimensions 3.20 Scale	е
				_state, o	aitasii		(m): 00 1:25 Logge	
Client	:: Burcombe	Haulag	je	T			3.70 Eogge	
Water Strike	Samp Depth	les & In S	Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	
							MADE GROUND comprising firm brown slightly sandy gravelly CLAY with abundant roots and some brick fragments and plastic sheeting (LANDFILL WASTE).	-
	0.40	ES		0.30			MADE GROUND comprising firm to stiff brown slightly sandy GRAVEL with some organic matter, plastic sheeting, brick and concrete fragments (LANDFILL WASTE).	-
				0.70			MADE GROUND comprising firm dark grey slightly sandy gravelly CLAY with occasional cobbles of granite and some plastic sheeting, brick and concrete fragments. High amount of plant material with tree stumps and large branches (0.25m diameter and 1.0m long). Strong musk odour (LANDFILL WASTE).	1 —
	1.30	ES		1.80				1 -
				1.00			MADE GROUND comprising medium dense purple slightly clayey GRAVEL of angular platey mudstone. Possible reworked Torpoint Formation (LANDFILL WASTE).	2
	2.80	ES						3
				3.70			End of Pit at 3.70m	4 -

Remarks: No groundwater encountered. Trial pit stopped at 3.7m as reached target depth.

Stability: Side collapse below 3.0m.



								T	
	(9)					т.	ial Dit Las	TrialPit	
	• • • • • • • • • • • • • • • • • • • •					I r	rial Pit Log	TP06	
engineeri				Dani	4 NI-		Co. and a: 244272.00	Sheet 1	of 1
Proje Name	ct e: Eales Farı	n Land	fill		ect No. 500692		Co-ords: 241273.00 - 60473.00 Level:	Date 22/08/20	116
			ar View Industrial I				Dimensions 3.20	Scale	
Local	ion. Eales Fan	II, Iailie	ar view industriar i	Estate, Sa	allasii		(m): O	1:25	
Clien	t: Burcombe	Haulag	je				Depth — — 3.90	Logge RA	u
Water Strike	Samp	les & In S	Situ Testing	Depth	Level	Legend	Stratum Description		
≥ ts	Depth	Туре	Results	(m)	(m)	************	•	on.	
	0.10	ES		0.30			MADE GROUND comprising firm brown sandy we gravelly CLAY with abundant roots and occasion. granite boulder and cobble. Gravel comprises an platey mudstone (LANDFILL WASTE). MADE GROUND comprising dense light brown we clayey GRAVEL with fragments of black top and plant matter. Gravel comprises angular mudstone (LANDFILL WASTE).	gular gular rery some	- - - - - - - - - - - - - - - - - - -
	1.20	ES		0.70			MADE GROUND comprising medium dense darl slightly sandy very clayey GRAVEL with fragmen brick, breeze block and plastic sheeting. High co plant material of grass, possible relic topsoil. Gra comprises mudstone and occasional granite (LAI WASTE).	ts of ntent of vel	1
	1.35	ES		1.30			MADE GROUND comprising stiff dark purple ver	у	-
							gravelly CLAY with some plant material and low of content. Gravel comprises mudstone, siltstone at sandstone (LANDFILL WASTE).		2 —
	2.40	ES		3.40					3 -
	0.00	F0					MADE GROUND comprising dense purple slight GRAVEL with low cobble content of platey angula mudstone. Possible reworked Torpoint Formation (LANDFILL WASTE).	ar	4 —
	3.90	ES		3.90		AXXXXXXXX	End of Pit at 3.90m		4

Remarks: No groundwater encountered. Trial pit stopped at 3.9m as reached target depth.



00000	(g)					_		TrialPit I	
						l r	rial Pit Log	TP07	
geo consi engineerir							0 1 011001 00 00100 00	Sheet 1	of 1
Proje Name	ct e: Eales Far	m Land	fill	-	ect No. E00692		Co-ords: 241291.00 - 60496.00 Level:	Date 22/08/20	116
		m Tam	ar View Industrial Es				Dimensions 3.80	Scale	
				olale, S			(m): 08.	1:25 Logged	4
Clien					ı		3.80	RA	u
Water Strike			Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
S 00	Depth	Туре	Results	(111)	(111)		MADE GROUND comprising firm brown slightly sa	andv	
				0.50			gravelly CLAY with abundant roots in the top 0.15i (LANDFILL WASTE).		-
				0.50			MADE GROUND comprising light brown clayey sa GRAVEL of mudstone and siltstone and some sar Occasional roots up to 0.05m in diameter (LANDF WASTE).	ndstone.	-
	1.10	ES		0.80			MASTE). MADE GROUND comprising medium dense reddi brown very clayey gravelly fine SAND containing; plastic sheeting, occasional pieces of wood, metal concrete boulders, and organic matter. Gravel consubrounded sandstone and quartz (LANDFILL WA	some I wiring nprises	1 —
									- - - - - - - - - - - - - - - - - - -
	2.20	ES		1.90			MADE GROUND comprising firm dark grey to blat gravelly slightly sandy CLAY with broken glass, more piping and plant matter (LANDFILL WASTE).		2 -
				2.40			MADE GROUND comprising loose yellowish grav- very clayey SAND with low cobble content contain plastic wrapping, occasional wood fragments and top. Gravel comprises subrounded to subangular mudstone and siltstone (LANDFILL WASTE).	ning	- - - - - - - - -
	3.00	ES		3.00			MADE GROUND comprising dense purple slightly slightly sandy GRAVEL with occasional boulders or blocky sandstone. Gravel comprises fine to mediu subangular mudstone (LANDFILL WASTE).	of	3
				3.80			End of Pit at 3.80m		4 —
									5

Remarks: No groundwater encountered. Trial pit stopped at 3.8m as reached target depth.

Stability: Large scale wall collapse.



	<u></u>						T-:-	ID:4 Na
0000	9)					т.		IPit No P08
geo consul	lting					11	iai i it Log	et 1 of 1
Projec) ita			Proi	ect No.			Date
Name		m Land	fill		00692			8/2016
Locati	on: Eales Far	m, Tam	ar View Industrial Es	state, Sa	altash			cale
Client							- ml l — —	1:25 ogged
			Situ Testing					RA
Water Strike	Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	
	0.05	ES	rtodato				MADE GROUND comprising firm brown gravelly sandy	
	0.00						CLAY with abundant roots (LANDFILL WASTE).	-
				0.30			MADE GROUND comprising dense light brown clayey	
							sandy GRAVEL with medium cobble content containing rubble (bricks, breeze blocks, plastic sheeting, and	1 -
							concrete) (LANDFILL WASTE).	
								=
	1.10	ES		1.00			MADE GROUND comprising stiff dark purple very gravelly CLAY. Gravel comprises angular mudstone and	
							occasional subrounded sandstone (LANDFILL WASTE).	=
				1.40			MADE CROUND comprising dopped dark bluow grow	2
							MADE GROUND comprising dense dark bluey grey slightly clayey sandy GRAVEL of platey medium subangular platey mudstone with low cobble content	
							(LANDFILL WASTE).	-
				1.80			MADE GROUND comprising dense to very dense purple	_ =
	2.00	ES					clayey (locally very clayey) slightly sandy GRAVEL of angular platey mudstone with low cobble content and	2 -
							occasional fragments of wood (LANDFILL WASTE).	
								-
								-
								-
								-
								-
								3 -
								-
								-
	3.40	ES						-
								-
				3.70			End of Pit at 3.70m	
								-
								4 -
								-
								-
								-
								-
								-
								-

Remarks: No groundwater encountered. Trial pit stopped at 3.7m as reached target depth.



	g					_		TrialPit	
						l r	rial Pit Log	TP09	9
geo consul engineering	ting Itd							Sheet 1	
Project Name	t Eales Far	m Land	fill		ect No.		Co-ords: 241271.00 - 60432.00	Date	
					00692		Level: Dimensions 3.80	22/08/20 Scale	
Locati	on: Eales Far	m, Tam	ar View Industrial E	Estate, Sa	altash		,)	1:25	
Client	: Burcombe	Haula	је				(m): 08	Logged RA	d
ë ë	Samp	oles & In S	Situ Testing	Depth	Level			<u>I IVA</u>	
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
	0.40	ES					MADE GROUND comprising firm friable brown g slightly sandy CLAY with abundant roots in the to with some organic matter (LANDFILL WASTE).	ravelly op 0.2m	
	1.10	ES		0.70			MADE GROUND comprising stiff dark purple gra CLAY with some organic matter. Gravel comprise lithologies of mudstone, siltstone, granite and sa (LANDFILL WASTE).	es mixed	1
	2.00	ES		1.70			MADE GROUND comprising medium dense pur slightly clayey fine GRAVEL of mudstone with oc rebar. Gravel clasts increase in size with depth comprising angular platey mudstone. Lenses of CLAY at 3.4m. Possibly reworked Torpoint Forms (LANDFILL WASTE).	gravelly	2
				4.10			End of Pit at 4.10m		4

Remarks: No groundwater encountered. Trial pit stopped at 4.1m as reached target depth.



	A						TrialPit	t No
	(g)					Tr	rial Pit Log	
geo cons engineerii	ulting					- 11	Sheet 1	
Proje	ot			Proj	ect No.		Co-ords: 241319.00 - 60476.00 Date	
Name	e: Eales Far	m Land	fill	-	00692		Level: 22/08/2	2016
Locat	tion: Eales Far	m, Tam	ar View Industrial E	state, S	altash		Dimensions 3.70 Scal (m): 1:25	
Clien	t: Burcombe	Haula	10				Depth ← Logg	ed
	Ι		Situ Testing				3.40 RA	
Water Strike	Depth	Туре	Results	Depth (m)	Level (m)	Legend	Stratum Description	
	0.10	ES		0.40			MADE GROUND comprising loose brown very clayey sandy GRAVEL with occasional brick fragments and abundant rootlets in the top 0.15m. Gravel comprises of mixed lithologies including, mudstone, siltstone, sandstone, granite and quartz (LANDFILL WASTE). MADE GROUND comprising dense purple mottled yellowish brown clayey sandy GRAVEL with medium cobble content and occasional boulders. Cobbles and boulders comprise of subangular blocky sandstone and	- - - - - - - - - - - - - - - - - - -
	1.10	ES					boulders comprise of subangular blocky sandstone and some platey mudstone. Gravel comprises angular to subangular mudstone, granite and siltstone. Occasional brick fragments and plastic debris throughout (LANDFILL WASTE).	1
	3.20	ES		3.40			End of Pit at 3.40m	3 —
								4

Remarks: No groundwater encountered. Trial pit stopped at 3.4m as reached target depth.



(9)							TrialPit No		
						Tr	rial Pit Log	q	T19-0	1
geo consulting engineering ltd									Sheet 1	of 1
Project Name:	Eales Fari	m Landf	ill	·	ect No.		Co-ords: -		Date	.00
					00692		Level: Dimensions		06/03/20 Scale	
Location	: Eales Fari	m, Tama	ar View Industrial E	Estate, Sa	ltash		(m):		1:25	
Client:	Burcombe	Haulag	e				Depth 2.20		Logged	d
Water	Samp	les & In S	Situ Testing	Depth	Level	Legend		m Description		
Wa	Depth 0.50	Type	Results	(m)	(m)	Legend	Moss over MADE GROUP gravelly slightly sandy CL mudstone and concrete w size fragments of concrete Gravel comprises medium Roots and rootlets within	ND comprising brown ve AY with some cobbles of ith rebar. Occasional be and pieces of scrap ments of the coarse clasts of mu	of oulder netal. dstone.	
	1.00	JP		4.50						1
	1.60	JP		1.50			Excavated as purple clays GRAVEL of angular plates quartz. (Possible complet Torpoint Formation).	mudstone. Occasiona	I clasts of	2 —
	2.20	JP		2.20		*. :	End (of Pit at 2.20m		_
										3
										-

Remarks: Trial pit ceased at 2.2m due to difficulty digging and natural stratum encountered. Trial pit backfilled with arisings on completion.



	(TrialPit I	No
						Tı	rial Pit Log	T19-0	
geo consu	alting ng Itd					•	1ai i ii 20g	Sheet 1 o	
Projec	it Falsa Far	no I andfi		Proje	ect No.		Co-ords: -	Date	
Name	Eales Far	m Landī	II	GCE	00692		Level:	05/03/20	20
Locati	on: Eales Far	m, Tama	r View Industrial E	Estate, Sa	ltash		Dimensions (m):	Scale	
Client	: Burcombe	e Haulag	e				Depth 1.90	1:25 Logged RA	d
ter ke	Sam	ples & In S	itu Testing	Depth	Level	Lagand			
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
	0.10	JG JP		0.30			Moss over MADE GROUND comprising soft bro gravelly sandy CLAY. Gravel predominantly muc some fragments of concrete, brick and occasion blacktop. Cobble size fragments of concrete, bri plastic piping. Underlain with geotextile. (Landfil Excavated as purple (locally light grey) clayey si GRAVEL of angular platey mudstone. Locally te stiff very gravelly clay. (Possible completely wea mudstone of the Torpoint Formation)	dstone with all ck and I Waste) and I waste) and fine nding to	1
									3

Remarks: Trial pit ceased at 1.9m due to difficulty digging and natural stratum encountered. Trial pit backfilled with arisings on completion.



00000	(g)							TrialPit	No
						Tr	rial Pit Log	T19-0)3
geo cons engineeri	ulting ng Itd							Sheet 1	of 1
Projec		m Landf	ill		ect No.		Co-ords: -	Date	
Name): 			GCE	00692		Level:	06/03/20 Scale	
Locat	ion: Eales Far	m, Tama	r View Industrial	Estate, Sa	ıltash		Dimensions (m):	1:25	
Client	: Burcombe	Haulag	е				Depth 2.90	Logge RA	d
ter ke	Samp	oles & In S	itu Testing	Depth	Level				
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
	0.50 0.50 0.50	B JG JP					Moss over MADE GROUND comprising soft to brown gravelly silty sandy CLAY with medium content of mudstone and concrete / blacktop Gravel predominantly comprises mudstone we concrete and limestone. Slight organic odour, ingress into the trial pit at the bottom of stratu (Landfill Waste)	cobble fragments. ith some Water	
	1.20 1.20	JG JP		0.90			Stiff to very stiff purple (locally grey) very graves andy CLAY locally tending to very clayey graves comprises medium to fine clasts of mudstone platey). No water ingress with stratum and ari (Possible Head or reworked mudstone of the Formation).	vel. Gravel (angular and sings dry.	1 -
	2.90	В		2.90			Excavated as stiff to very stiff light greyish brovery gravelly CLAY tending to very clayey gramedium to fine clasts of mudstone. (Possible weathered mudstone of the Torpoint Formation of the Torpoint	vel of completely	2 -
	2.90	JP							3 -

Remarks: Trial pit backfilled with arisings on completion.

Stability: Trial pit sides stable.



	g					Tı	rial Pit Log]	TrialPit T19-0)4
geo consu	ulting ng Itd						_		Sheet 1	
Project Name		m Landfil	I	-	ect No.		Co-ords: -		Date	
Ivallie	•			GCE	E00692		Level:		05/03/20 Scale	
Locati	on: Eales Far	m, Tamar	View Industrial	l Estate, Sa	ıltash		Dimensions (m):		1:25	
Client	: Burcombe	e Haulage)				Depth		Logge	ed
ъ Ф	Sam	ples & In Sit	tu Testing	Danth	Laval		3.00		RA	
Water Strike	Depth	Туре	Results	Depth (m)	Level (m)	Legend	Stratum	n Description		
	1.00	JP JP					Moss over MADE GROUN (locally purple brown) very comprises mix of mudstone Occasional boulder size frametal (rebar and pipes), oc and old roots) and occasion glass. (Landfill Waste)	gravelly sandy CLAY. e, concrete and brick. agments of concrete, s ccasional organic matte	Gravel ome er (plants	1 —
	2.60 2.60	JP JG JP		3.00			MADE GROUND comprising lenses of purple) gravelly supredominantly mudstone we concrete. Large boulders of further excavation. (Landfill End of	andy CLAY. Gravel co with some fragments of of granite at 3.0m preven	mprises	3 - 3 -
										4 —

Remarks: Trial pit ceased at 3.0m as large boulders of granite preventing further excavation. Trial pit backfilled with arisings on completion.

Stability: Slight spalling.



	9								TrialPit	No
geo consu	lting					Tı	rial Pit Loo	3	T19-0	
Projec	#			Proie	ect No.		Co-ords: -		Date	
Name:	Eales Farr	n Landfi	II	l	00692		Level:		05/03/20	
Locati	an: Ealaa Earr	n Tomo	r View Industrial E				Dimensions		Scale	
		II, Iailia	i view ilidustriai E	istate, Sa	ııasıı		(m):		1:25	
Client:						ı	Depth 2.00		Logge RA	a
Water	Samp Depth	les & In S Type	itu Testing Results	Depth (m)	Level (m)	Legend	Stratur	n Description		
	1.20 1.20	JG JP		2.00			Moss over MADE GROUN gravelly (locally gravelly) some cobbles of concrete Occasional roots and scra 2.0m large blocks of grani stockpiled topsoil over sto	slightly sandy silty CLAY . Gravel comprises mud p metal. Relic grass at te encountered. (Possib	' with Istone. 1.8m. At	1 -
										3 -

Remarks: Trial pit ceased at 2.0m as excavator was unable to break up large granite blocks. Trial pit backfilled with arisings on completion.

Stability: Slight spalling.



· · · · · ·)					т.	cial Dit La	~	TrialPit	
geo consulting						11	rial Pit Lo	9	T19-0	
engineering Itd				Proi	ect No.		Co-ords: -		Date	
Project Name:	Eales Fari	n Landf	ill	1 -	00692		Level:		05/03/20	
Location	· Fales Farr	n Tama	r View Industrial				Dimensions		Scale	
				LState, Ga	itasii		(m):		1:25	
Client:	Burcombe	Haulag	е				Depth 2.60		Logge RA	u
Water Strike			litu Testing	Depth	Level (m)	Legend	Stratu	m Description		
<i>S</i> 00	1.20 1.20 1.20 1.60	B JG JP JP	Results	(m)			MADE GROUND compris gravelly sandy CLAY (tenroots in the top 150mm. G limestone, mudstone, che Rubble comprises cobble concrete and blacktop. S sheeting and bricks with c boulder size fragments of 2.5m causing large collap Waste).	ding to clayey gravelly stravel comprising mixturit, granite, brick and ce and boulder sized fragiome rebar, paving slabs occasional broken glass blacktop and concrete	eand) with re of ramics. ments of s, plastic . Large slabs at	1
	2.70 2.70 2.70	B JG JP		2.60			End	of Pit at 2.60m		3

Remarks: Trial pit ceased as encountered large concrete slab at 2.6m and large collapse of pit walls. Trial pit backfilled with arisings on completion.

Stability: Trial pit side at risk of complete collapse due to large size of rubble fragments.



	(g)							TrialPi	t No
	000					Tı	rial Pit Log	T19-	07
geo cons engineerii	ulting ng Itd							Sheet 1	1 of 1
Proje		m Landfil	I	-	ect No.		Co-ords: -	Dat	е
Name	: = =====			GCE	00692		Level:	05/03/2	
Locat	ion: Eales Farr	m, Tamar	View Industrial	Estate, Sa	ltash		Dimensions (m):	Sca 1:2	
Client	: Burcombe	Haulage)				Depth 4.70	Logg	ed
ter ke	Samp	oles & In Sit	tu Testing	Depth	Level			<u>'</u>	
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
							Moss over MADE GROUND comprising stif brown slightly gravelly slightly sandy silty C rootlets within top 100mm. (Landfill Waste)		- - - - -
	0.80 0.80	JG JP		0.40			MADE GROUND comprising rubble with a representation of the control	comprising of comprises concrete with enses of dark of grass, trunk	1 -
				1.60			MADE GROUND comprising firm (locally st gravelly slightly sandy CLAY. Gravel predon mudstone (fine angular) with occasional fra concrete. (Landfill Waste)	ninantly	2 -
	2.20	JP JP		2.30			MADE GROUND comprising light grey very clayey) sandy fine GRAVEL with low cobble mudstone. Gravel comprises fine angular of mudstone with occasional sandstone and coocasional bricks. (Landfill Waste)	content of asts of	3 -
	3.50	JP							-

Remarks: Trial pit backfilled with arisings on completion.

4.20

4.70

Stability: Slight spalling.

4.70 4.70

3.90

JΡ

JG JP



5 -

4

MADE GROUND comprising stiff light yellowish brown very gravelly slightly sandy CLAY. Gravel predominantly mudstone with some fragments of concrete. Contains some wires and occasional cobbles and boulders of concrete. (Landfill Waste)

End of Pit at 4.70m

00000	(g)								TrialPit	No
	0000					Tr	rial Pit Log		T19-08	
geo cons engineeri	ulting ng ltd						3		Sheet 1	of 1
Proje		m I andf	ill	Proj	ect No.		Co-ords: -		Date)
Name	e:	II Landi		GCE	E00692		Level:		05/03/2	
Locat	ion: Eales Farr	n, Tama	ır View Industrial I	Estate, Sa	ltash		Dimensions (m):	\neg	Scale 1:25	_
01	D	11. 1					Depth		Logge	
Client	: Burcombe	Haulag	e 				4.30		RA	
Water Strike	Samp	les & In S	itu Testing	Depth	Level	Legend	Stratum Description			
ĭş %	Depth	Type	Results	(m)	(m)	Logona	·			
	0.20	JG					Moss over MADE GROUND comprising sti brown slightly gravelly (locally gravelly) slig CLAY with some rootlets within top 100mm predominantly of mudstone. (Landfill Waste	htly sa . Grave	indy silty	
	1.00 1.00 1.00	B JG JP		0.60			MADE GROUND comprising greyish brown black) soft to firm gravelly slightly sandy CL occasional cobbles of mudstone. Some cot fragments of concrete, brick and blacktop, predominantly of mudstone with some blac concrete fragments. Slight odour of damp of Some organic matter comprising old branch grass cuttings and 'clumps' of relic topsoil. measuring 1.5m long, 0.3m thick at 2.0m. (AY with a ble size of the control of	th ze prick and soil. d roots, unk	1 -

Remarks: Trial pit ceased at 4.3 as struggling to get further using the excavator. Arisings dry. Trial pit backfilled with arisings on completion.

2.20

2.40

4.30

Stability: Slight collapse of trial pit side in top 2m during excavation.

2.10

2.30

2.60

3.00 3.00 3.00

3.50

3.70

4.30 4.30 JΡ

JΡ

JР

B JG JP

JΡ

JΡ

JG JP



5 -

2

3

MADE GROUND comprising firm light greyish purple

Gravel comprising lifth light greyish pulple gravelly slightly sandy CLAY tending to very clayey gravel. Gravel comprises mudstone with occasional sandstone. (Landfill Waste)

MADE GROUND comprising light brownish grey clayey sandy fine GRAVEL with low cobble content. Gravel and

cobbles comprise angular platey and blocky mudstone. At 3.7m lenses of very stiff to stiff purple/ blueish grey very gravelly clay. Arisings dry. (Landfill Waste)

End of Pit at 4.30m

D							TrialPit	No	
					- Tı	rial Pit Log	T19-0)9	
g							Sheet 1	of 1	
Eales Farr	m Landfill		-			Co-ords: -			
			GCE	00692			05/03/20		
n: Eales Fari	m, Tamar	View Industrial I	Estate, Sa	ltash		Dimensions (m):	- I		
Burcombe	Haulage					Depth 4.70	Logge RA	d	
Samp	les & In Situ	u Testing	Depth	Lovel			·		
Depth	Туре	Results	(m)	(m)	Legend	·			
1.00 1.00 1.70 1.70	JG JP B JG		0.20		X	slightly gravelly (locally gravelly) slightly sandy Gravel predominantly comprises mudstone wit granite, brick and occasional limestone. (Land MADE GROUND comprising rubble with matrilight brown gravelly sandy CLAY. Rubble compragments of brick and concrete, breeze blocks sheeting and blacktop, old wires and occasion Possible asbestos fibres. Below 1.0m boulder	silty CLAY. h some fill Waste) x of brown/ orises s, plastic al old roots. size	1 -	
2.50 3.00 3.00 3.00 3.40	JP B G JP JP		2.10			light blueish grey below 3.0m) clayey sandy G Gravel predominantly of mudstone with occasi	RAVEL. onal	3 -	
	1.00 1.00 1.70 1.70	1.00 JG 1.00 JG 1.00 JP 1.70 B 1.70 JG 1.70 JG 1.70 JG 1.70 JG 1.70 JG	Samples & In Situ Testing	Eales Farm, Tamar View Industrial Estate, Sa Burcombe Haulage	Samples & In Situ Testing	Eales Farm Landfill Project No. GCE00692 n: Eales Farm, Tamar View Industrial Estate, Saltash Burcombe Haulage Samples & In Situ Testing Depth (m) Level (m) Legend Depth Type Results 1.00 JG 1.00 JF 1.70 B 1.70 JG 2.50 JP 3.00 B 3.00 JG 3.00 JG 3.00 JG 3.00 JG 3.00 JP	Eales Farm, Tamar View Industrial Estate, Saltash Burcombe Haulage Samples & In Situ Testing Depth Type Results Depth Type Results Depth Type Eales Farm Landfill Project No. GCE00692 Level: Date ScCE00692 Level: 05/03/20 SCE00692 Level: 05/03/20 SCE00692 SCE0069		

Remarks: Trial pit backfilled with arisings on completion.

4.70

JP

B JG JP

Stability: Slight spalling.

4.00

4.70 4.70 4.70



5 -

End of Pit at 4.70m

0000	(g)								TrialPit l	No
						Tr	rial Pit Log	q	T19-1	0
geo cons engineeri	ulting ng ltd								Sheet 1	of 1
Proje	ct Eales Farr	n Landfi	II	1 -	ect No.		Co-ords: - Date			
Name	9:			GCE	00692		Level:	06/03/202		
Locat	ion: Eales Farr	m, Tama	r View Industrial E	state, Sa	ltash		Dimensions Scal			
Client	: Burcombe	Haulag	e		Depth 4.60				Logge	d
ke te	Samp	les & In S	itu Testing	Depth	Level					
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratu	m Description		
	0.10	JG					Moss over MADE GROUN gravelly slightly sandy silty and some roots (Topsoil).			-
	0.50 0.50	JG JP		0.35			MADE GROUND compris gravelly slightly sandy CL mudstone with some brick scrap metal, plastic piping Occasional boulder size fr blocks. (Landfill Waste)	y s. Some astic.	1 -	
	2.30	JP JP		2.10			MADE GROUND compris gravelly slightly sandy CL of brick and breeze block. (angular and platey). Arisi below 3.2m. (Landfill Was	AY with occasional grave Gravel predominantly n ngs becoming wet and s	el clasts nudstone	2
										-

3.80

4.60

Stability: Slight spalling.

4.20

JΡ



5 -

Excavated as purple slightly clayey slightly sandy fine to medium gravel of angular and platey mudstone. Occasional cobbles of mudstone (possible weathered mudstone of the Torpoint Formation).

End of Pit at 4.60m

00000	.								TrialPit N	lo
						Ir	rial Pit Log		T19-1	1
geo cons engineeri	sulting ing Itd								Sheet 1 o	of 1
Project Name	ct Eales Far	m Landfill		-	ect No.		Co-ords: -		Date	
Ivanie	.			GCE	00692		Level:		06/03/202 Scale	20
Locat	ion: Eales Far	m, Tamar	View Industrial	l Estate, Sa	ltash		Dimensions (m):		1:25	
Client	t: Burcomb	e Haulage					Depth 4.50		Logged RA	
e e	Sam	ples & In Site	u Testing	Depth	Level				IVA	
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Desc	cription		
	0.50 0.50	JG JP					Moss over MADE GROUND com (locally light grey) very gravelly s predominantly comprises mudsto some brick and concrete fragmer scrap metal, plastic and bricks. (I	andy CLAY. Gravel one (angular platey onts. Occasional pie) with	1 —
	1.40 1.40	JG JP		1.00			MADE GROUND comprising rub grey gravelly sandy clay. Rubble breeze blocks, copper piping, wo pieces of plastic, and occasional 75mm diameter). (Landfill Waste	comprises; concre oden pallet fragme tree branches (up	te, ents,	1
	2.40 2.40	B JP		1.80			MADE GROUND comprising bro purple) soft to firm gravelly (local sandy CLAY. Contains fragments blocks and some wooden planks (Landfill Waste)	ly very gravelly) slig of concrete, breez	ghtly	2
	3.20	JP								3
	3.70	JP								4 —

4.50

Stability: Slight spalling.

4.50 4.50 4.50 B JG JP



5 -

End of Pit at 4.50m

Trial Pit Log T She Project Fales Farm Landfill Project No. Co-ords: -	rialPit No T19-12	
Project Fales Farm Landfill Project No. Co-ords: -	T19-12	
Project Fales Farm Landfill Project No. Co-ords: -		
Fales Farm Landfill	neet 1 of 1	
	Date	
Name: GCE00692 Level: 06	6/03/2020	
Location: Eales Farm, Tamar View Industrial Estate, Saltash Dimensions (m):	Scale 1:25	
Client: Burcombe Haulage Depth 4.60	Logged RA	
Samples & In Situ Testing Depth Depth Type Results Depth (m) Depth (m) Stratum Description		
Moss over MADE GROUND comprising firm brown gravelly slightly sandy CLAY. Gravel comprises mix of mudstone, interactive and blacktop. Occasional older and cobble size fragments of concrete and blacktop. Occasional old root scray metal. Copper piping and wires. Arisings dry. (Landfill Waste) MADE GROUND comprising grey firm (locally stiff) gravelly slightly sandy CLAY. Gravel predominantly fine I medium class of mudstone. Some cobble size fragment of brick, blacktop and concrete. Occasional soray metal. Some cobble size fragment of brick, blacktop and concrete. Occasional soray metal. Some cobble size fragment of brick, blacktop and concrete. Occasional soray metal. Some cobble size fragment of brick, blacktop and concrete. Occasional soray metal. Some cobble size fragments is consistent of the complex of concrete some cobble size fragments. Some cobble size fragments is consistent of the complex of concrete some cobble size fragments. Some cobble size fragments is consistent of the complex of concrete some cobble size fragments. Some cobble size fragments is consistent of the complex of concrete some cobble size fragments. Some cobble size fragments is consistent of the complex of concrete some cobble size fragments. Some cobble size fragments is consistent of the complex of concrete some cobble size fragments. Some cobble size fragments of concrete some cobble size fragments of concrete some cobble size fragments. Some cobble size fragments of concrete some cobble size fragments of concrete some cobble size fragments. Some cobble size fragments of concrete some cobble size fragments of concrete some cobble size fragments. Some cobble size fragments of concrete some	ats,	

4.60

Stability: Large scale well colapse in trial pit.

B JG JP

4.00

4.50 4.50 4.50



5 -

End of Pit at 4.60m

	(9)					т.	rial Dit Lag	TrialPit	
000000	ulting					11	rial Pit Log		
engineerir	ng Itd			Proje	ect No.		Co-ords: -	Sheet 1	
Project Name	ct Eales Far	m Landfill			00692		Level:	06/03/2	
			\"				Dimensions	Scal	
Locati	on: Eales Fai	m, Iamar	View Industrial	l Estate, Sa	itash		(m):	1:25	
Client	: Burcomb	e Haulage					Depth 4.50	Logge	
ke ke	Sam	ples & In Situ	u Testing	Depth	Level			,	
Water	Depth	Туре	Results	(m)	(m)	Legend	Stratum Descripti	on	
	0.50	JP					Moss over MADE GROUND compris gravelly (locally slightly gravelly) slight cobble sized fragments of concrete a Occasional boulders of concrete, bric pieces of plastic. Some roots within t ingress from small gravel lens at 1.2r (Landfill Waste)	ntly sandy CLAY with and blacktop. ck fragments, and op 100mm. Water	
	1.60	JP		1.20			MADE GROUND comprising firm (bu soft to stiff) grey/ brownish grey grave CLAY with some organic matter (plar up to 150mm diameter). Occasional size fragments of concrete and brick. Arisings damp, becoming wet with de	elly slightly sandy nt roots and branches boulder and cobble . Slight organic odour.	2 —
	2.50 3.40 3.80	JP JP		2.60			MADE GROUND comprising soft to fall slightly sandy CLAY mixed with firm processes and state of the control of t	purple very gravelly ngular and platey). scrap metal, wire, old 19-14), and boulders	3

4.50

Stability: Slight spalling.

4.50 4.50 JG JP



5 -

End of Pit at 4.50m

00000	(g)						–		TrialPit	No
						Tr	rial Pit Lo	og	T19-1	4
geo cons engineeri	ulting ng Itd						1		Sheet 1	
Projed Name	ct Eales Far	m Landf	ill	-	ect No.		Co-ords: -		Date	
				- I	00692		Level: Dimensions		06/03/20 Scale	
Locat	ion: Eales Far	m, Tama	r View Industrial	Estate, Sa	ltash		(m):		1:25	
Client	: Burcombe	e Haulag	е		ı		Depth 4.50		Logge RA	d
Water Strike	Sam	oles & In S	itu Testing	Depth	Level	Legend	Sti	ratum Description		
W. Str	0.50 0.50	JG JP	Results	(m)	(m)	2.59.10	Moss over MADE GR purple) very clayey sa mudstone with occasis black top. Lens at 0.9i concrete and blacktop (Landfill Waste)	OUND comprising grey (loundy fine to medium GRAV onal clasts of tile fragment medium with abundant fragment or displaying rapid ingress of the fragment of the	/EL of ts and is of of water.	1
	1.50	JP					gravelly slightly sandy mudstone (angular an Sections of metal fend	iphising illim (locally sun) in or CLAY. Gravel predominal id platey) with occasional s cing seen throughout with of concrete. (Landfill Wa	ntly granite. occasional	-
	2.00	JP								2
	3.40 3.40	JG JP								-
	4.00	JP								4 -

Remarks: Trial pit backfilled with arisings on completion.

4.50

B JP

Stability: Trial pit sides stable

4.50 4.50



End of Pit at 4.50m

Trial Pit Log

TrialPit No T19-15

Sheet 1 of 2

Project Name: Project No. Eales Farm Landfill GCE00692 Co-ords: -Level:

Date 06/03/2020

Location: Eales Farm, Tamar View Industrial Estate, Saltash

Dimensions (m):

Scale 1:25 Logged

Burcombe Haulage

Depth

Client:	Burcombe	Haulag	е				5.00 Logged	ג
e e	Samı	oles & In S	itu Testing	Depth	Level			
Water	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description	
	0.90 0.90 0.90	B JG JP		0.13			Moss over MADE GROUND comprising stiff to firm purple gravelly silty CLAY with some rootlets. (Landfill Waste) MADE GROUND comprising light greyish brown/ brownish grey clayey sandy medium to coarse GRAVEL with medium cobble content of mudstone. Gravel predominantly mudstone (angular and platey). Occasional cobble and boulder size fragments of blacktop, concrete and brick. Lenses within stratum of soft grey gravelly clay with some organic materials (old plant matter). Large boulder size fragments of blacktop at 1.3m. (Landfill Waste)	1 -
				1.40			MADE GROUND comprising firm grey/ brownish grey gravelly slightly sandy CLAY. Gravel predominantly comprises fine clasts of mudstone. Contains fragments of bricks, concrete, blacktop, scrap metal, breeze blocks, plastic sheeting and occasional organic matter. Small zone at 3.2m containing tree branches. Strong odour of hydrocarbons at 4.2m (very localised). (Landfill Waste)	-
	2.00	JP						2 -
	2.50 2.50 2.50	B JG JP						-
	3.20	JP						3 -
	4.20 4.20	JG JP						4 -
	5.00	JG		5.00				5 -
				5.00			Continued on Next Sheet	

Remarks: Trial pit backfilled with arisings on completion.

Stability: Slight spalling.



geo consult	g					Tı	rial Pit Lo	og	TrialPit T19-1 Sheet 2	5
Project	1000			Proj	ect No.		Co-ords: -		Date	
Project Name:	Eales Far	m Landi	fill	l l	00692		Level:		06/03/2020	
Locatio	on: Eales Far	m. Tama	ar View Industrial E	Estate. Sa	ltash		Dimensions		Scale	
Client:							(m): Depth 5.00		1:25 Logge	d
		oles & In S	Situ Testing	Donth	Lovel				RA	
Water Strike	Depth	Туре	Results	Depth (m)	Level (m)	Legend	Str	atum Description		
	5.00	JP	results					End of Pit at 5.00m		6
										9 —

Remarks: Trial pit backfilled with arisings on completion.

Stability: Slight spalling.



10 -

0000	(ģ)								TrialPit	No
00000						Tr	rial Pit Log	a	T19-1	16
geo cons engineeri	sulting ng ltd						`		Sheet 1	of 1
Proje		m I andf	ill	Proje	ect No.		Co-ords: -	Date		
Name	e:	TI Landi		GCE	00692		Level:		06/03/2020	
Locat	ion: Eales Farr	m, Tama	r View Industrial	Estate, Sa	ıltash		Dimensions (m):		Scale 1:25	
Client	:: Burcombe	Haulag	e				Depth 3.50		Logge	
Water Strike	Samp	les & In S	itu Testing	Depth	Level	Logond	Stratu	m Description		
Wa	Depth	Туре	Results	(m)	(m)	Legend	Stratui	in Description		
	1.00 1.00 1.00	B G JP		1.30			Moss over MADE GROUN light greyish brown gravel predominantly comprises brick and blacktop. Occas brick. Occasional fragmer Arisings damp. (Landfill Wassers of paving slabs some old wires, metal, place Occasional old branches arisings wet. (Landfill Wassers of paving slabs some old wires, metal, place occasional old branches arisings wet. (Landfill Wassers of paving slabs some old wires, metal, place occasional old branches arisings wet. (Landfill Wassers occasional old branches arisings wet.)	ly slightly sandy CLAY. of mudstone with some co- ional cobbles of limesto its of plastic and cerami //aste) ing very soft to soft dark YY with some cobble siz , concrete and bricks. Co- istic and wooden skirtin, and roots. Slight organic	Gravel increte, increte, increte, increte, increte, increte, increte and increte and increte i	1 -
	2.30	JP		2.00			MADE GROUND compris brown gravelly slightly sar to coarse comprising mixt blacktop, limestone, brick size fragments of blacktop Some plastic sheeting and Occasional lenses of wet dry. Large concrete slab e Waste)	andy CLAY. Gravel clasts ure of mudstone, concre and granite. Occasional o, concrete and breezeb d ceramic pipe fragment very soft to soft clay. Ari	medium ete, I cobble lock. ts. sings	2
	2.70 3.40 3.40 3.40	B JG JP		3.50			End (of Pit at 3.50m		3 -
										4 -

Remarks: Trial pit creased at 3.5m due to large concrete slab. Trial pit backfilled with arisings on completion.

Stability: Collapses within trial pit walls in top 2.0m



0000	(g)								TrialPit I	No	
	000					Tı	rial Pit Log	q	T19-1	7	
geo cons engineeri	ulting ng Itd								Sheet 1	of 1	
Proje	ct Eales Fari	m Landf	ill	-	ect No.		Co-ords: -	Date			
Name):			GCE	00692		Level:		05/03/2020		
Locat	ion: Eales Farı	m, Tama	r View Industrial E	Estate, Sa	ltash		Dimensions (m):		Scale 1:25		
Client	: Burcombe	Haulag	е				Depth 3.60		Logged	d	
ter ke	Samp	les & In S	itu Testing	Depth	Level	Ī		D			
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratu	m Description			
	0.50 1.10 1.10 1.10 1.70	JP B JG JP JP					Moss over MADE GROUN gravelly sandy CLAY mate gravel) with cobbles and to blacktop and concrete, pa Gravel comprises mudsto (likely perched). Large co 1.7m planks of wood, wiri wingmirror) and some ligh clasts. (Landfill Waste)	rix (tending to clayey sar coulders size fragments iving slabs, and plastic ne and limestone. Wate ncrete slab from 1.7m. E ng, scrap metal (includir	ndy of heeting. r at 1.5m selow ng car	1	
	2.90 2.90 3.40	JG JP		2.70			MADE GROUND compris gravelly slightly sandy CL comprises fine clasts of m 3.6m encountered high at concrete slab preventing (Waste).	AY. Gravel predominantl nudstone (angular and ploundance of rubble with	y atey). At large	3 -	
				3.60		PXXXXXXX	Fnd (of Pit at 3 60m		-	

Remarks: Trial pit ceased at 3.6m due to large concrete slab. Trial pit backfilled with arisings on completion.

Stability: Large collapse in trial pit walls.



)					一.	.i. a.l. Dit. I. a. a.		TrialPit	
0000000						- 11	rial Pit Log		T19-1	
geo consultin engineering It	d								Sheet 1	
Project	Eales Farr	m Landfil	I	-	ect No.		Co-ords: -			
Name:				GCE	00692		Level:		04/03/20	
Locatio	n: Eales Farr	m, Tamar	View Industrial	Estate, Sa	ltash		Dimensions (m):		Scale 1:25	
Client:	Burcombe	Haulage)		Depth 3.60				Logge	
ke re	Samp	les & In Sit	u Testing	Depth	Level	l				
Water	Depth	Туре	Results	(m)	(m)	Legend	Stratum	Description		
	0.50 0.50	JG JP					Buddleia and moss over MA soft to firm brown slightly sal predominantly mudstone. Co clasts of granite, mudstone, Occasional boulder size frag sections of brick wall. (Land	ndy gravelly CLAY. Gr ontains some cobble s blacktop, brick and co gments of concrete an	ravel sized oncrete.	
	1.00	B JP								1
	2.90 2.90 2.90 2.90	B J P		2.20			MADE GROUND comprising sandy CLAY with medium control brick and blacktop. Occasion of rebar and plastic sheeting mudstone, brick, concrete an rubble below 3.0m (concrete boulders). Large granite block	obble content of limes nal boulder of blacktop g. Gravel comprising o nd blacktop. High con e, blacktop and brick	tone, o, pieces f tent of	3 -
				3.60			End of F	Pit at 3.60m		=

Remarks: Trial pit ceased at 3.6m as excavator was unable to break up large granite boulder. Arisings dry. Trial pit backfilled with arisings on completion.

Stability: Slight spalling.



*** :::(g)								TrialPit I	No
				Trial Pit Log				9	
geo consulting engineering Itd							Sheet 1	of 1	
Projec		Eales Farm Landfill			Project No.		Co-ords: -	Date	
Name	. Laies i ai				GCE00692		Level:	05/03/2020	
Location: Eales Farm, Tamar View Industrial Esta			Estate, Sa	te, Saltash		Dimensions (m):	Scale		
Olivet Branch Heli			·			(m): Depth	1:25 Logged	d	
Client	: Burcombe	Burcombe Haulage					2.00	RA	ч
Water Strike	Samples & In Situ Testing			Depth	Level	Legend	Stratum Description		
	Depth	Depth Type Results		(m)	(m)	Logona	·		
	0.70 0.70 1.10	JG JP		1.20			Moss and buddleia over MADE GROUND comprisin light brown/ brown gravelly (locally slightly gravelly) sec. CLAY with some roots and rootlets. Gravel predomin mudstone (angular platey) with occasional fragments concrete and brick. (Landfill Waste) MADE GROUND comprising firm purple gravelly slig sandy CLAY containing occasional plant matter (old and branches). Gravel predominantly mudstone (anguand platey) with occasional fragments of concrete arbrick. Slight earthy odour. Occasional pieces of plast Large concrete slabs at 1.2m. (Landfill Waste) MADE GROUND comprising large reinforced concresiabs. Matrix comprises gravelly clay containing som pieces of plastic with rubble and brick fragments. Aridry. (Landfill Waste)	/) silty ninantly nts of slightly Id roots angular and astic.	
	1.80 1.80 1.80	B JP		2.00			End of Pit at 2.00m		2

Remarks: Trial pit ceased at 2.0m due to large concrete slab spanning trial pit floor. Arisings dry. Trial pit backfilled with arisings on completion.

Stability: Slight spalling.



5 -

	9					Tı	rial Pit Log	TrialPit T19-2	
geo consu engineerin	lting g ltd							Sheet 1	
Project Name	t Eales Far	m Landfill			ect No.		Co-ords: -	Date	
ivame	•			GCE	00692		Level:	04/03/20 Scale	
Locati	on: Eales Far	m, Tamar	View Industrial	Estate, Sa	ltash		Dimensions (m):	1:25	
Client	Burcombe	e Haulage					Depth 4.30	Logge RA	
Water Strike	Sam	ples & In Situ	u Testing	Depth	Level	Logond	Stratum Description		
Wa	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
	0.50	JP					Moss and weeds over MADE GROUND comp (locally firm) grey gravelly CLAY containing so fragments and occasional pieces of wood (por fragments of old pallets). Gravel comprises fir mudstone with some fragments of ceramic por concrete. Occasional lenses of soft brown graclay. Roots and rootlets within top 100mm. (Lawaste)	ome shell ssibly the clasts of ttery and vely silty	
	1.30 1.30	JG JP		1.10			MADE GROUND comprising very dark grey g slightly sandy CLAY with low cobble content o concrete. Gravel comprises mix of mudstone, brick and blacktop. Slight odour of hydrocarbot throughout. Occasional bricks and boulder siz of blacktop. Some fragments of wood (possibl of old pallets). Below 3.0m contains plastic sh scrap metal, old wooden pallet and plastic bot arisings very wet. (Landfill Waste)	f brick and concrete, ons e fragments e fragments eeting, rope,	2 —
	2.60 2.60 2.60	B JG JP							3 —
	3.00	JP							3 -
	3.40	JP							- - - - - - - - -

Remarks: Trial pit ceased at 4.3m as excavator unable to conitue due to depth. Locally arisings very wet. Trial pit backfilled with arisings on completion.

4.30

Stability: Slight spalling.

4.00

4.30

JG

В



5 -

End of Pit at 4.30m

ġ)					Tı	rial Pit Log	7	TrialPit I	
geo consulting engineering Itd							_		Sheet 1	of 1
Project Name:	Eales Farr	n Landfil	I	1 -	ect No. E00692		Co-ords: - Level:		Date 04/03/20	20
		. T	. <i>Vi</i> In al a fai a l				Dimensions	-	Scale	
Location	Eales Fall	n, ramar	View Industrial	Estate, Sa	แลรท		(m):		1:25	
Client:	Burcombe	Haulage)				Depth 1.65		Logged RA	a
Water	Samp	les & In Sit	tu Testing	Depth	Level	Legend	Stratu	m Description		
% to	Depth	Туре	Results	(m)	(m)		Moss and buddleia over N	·	:-: T	
	0.50 0.50 1.30 1.50 1.50 1.60	GP 9 BPP		1.40 1.55 1.65			Excavated as light grey/bi GRAVEL locally tending to mudstone (angular platey 150mm. Occasional pock. Old bike at 1.3m. (Landfill Excavated as light grey/bi GRAVEL locally tending to mudstone (angular platey weathered mudstone of th Very weak extremely closi greenish grey (weathering Cleavage dipping at 40 de medium gravel. (Highly wi Torpoint formation).	ey very gravelly slightly ne to medium clasts of object to medium clasts of object to medium clasts of object to medium clasts of brown slightly gravels waste) Townish grey very clayer overy gravelly clay. Gravely clayer object to medium common clayer fractured cleaved light orange) MUDSTONE.	ey sandy ey sandy avely clay.	1

Remarks: Trial pit ceased at 1.65m as difficult digging through mudstone. Arings dry. Trial pit backfilled with arisings on completion.

Stability: Slight spalling.



0000	(g)								TrialPit	No
						Tr	rial Pit Lo	q	T19-2	22
geo cons engineerii	ulting ng Itd							<u> </u>	Sheet 1	of 1
Proje	ct Eales Fari	n I andf	ill	-	ect No.		Co-ords: -		Date	
Name	:	- Lana		GCE	00692		Level:		04/03/20	
Locat	ion: Eales Farr	m, Tama	r View Industrial	Estate, Sa	ltash		Dimensions (m):		Scale 1:25	!
Client	: Burcombe	Haulag	e				Depth		Logge	d
e e	Samp	les & In S	itu Testing	Donth	Laval		3.70		RA	
Water Strike	Depth	Туре	Results	Depth (m)	Level (m)	Legend	Stra	tum Description		
	0.90 0.90 1.80 1.80	JG JP					grey very clayey (locally occasional cobble size to mudstone. Contains occ concrete, blacktop, muc of hydrocarbons. Very hyresence of concrete slablocks, pieces of scrap soft purple grey gravelly	UND comprising grey/bro or clay) sandy GRAVEL wi fragment of concrete and casional boulder size fract listone and brick. Very slig- lard digging at 1.2m due abs. Below 2.0m some b metal and occasional len or clay. Water inflow from a by a piece of rebar at 1.5 .0m. (Landfill Waste)	th gments of ght odour to reeze ses of a hole in	1
	2.50	JP JP		2.40			to clayey gravel. Gravel fragments of rubble (co	rising very gravelly CLAY comprises mudstone an ncrete, blacktop, and bric ulder size fragments of c I brick. (Landfill Waste)	d :k).	3 -
	3.70 3.70	B JG		3.70			En	nd of Pit at 3.70m		4 —

Remarks: Trial pit ceased at 3.7m as excavator was struggling to get through rubble. Arisings generally dry with slight water ingreess at 1.5m through small opening in trial pit wall. Trial pit backfilled with arisings on completion.

Stability: Slight spalling.



	(a)							TrialPit I	No
						Tr	rial Pit Log	T19-2	_
geo cons engineeri	ulting ng Itd							Sheet 1	of 1
Proje		m I andfi	II	'	ect No.		Co-ords: -	Date	
Name): 	Landi		GCE	00692		Level:	04/03/20	
Locat	ion: Eales Farı	m, Tama	r View Industrial	Estate, Sa	ltash		Dimensions (m):	Scale 1:25	!
Client	: Burcombe	Haulage	е				Depth 3.60	Logged RA	d
Water Strike	Samp	oles & In Si	tu Testing	Depth	Level	Legend	Stratum Description		
Wa Str	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
	0.50 1.00 1.00	JP JG JP		0.80			Moss over MADE GROUND comprising of firm to pinkish brown very gravelly sandy CLAY. Gravel predominantly of mudstone (angular and platey). Occasional fragments of brick and concrete. (Lan Waste) MADE GROUND comprising very dark blueish gravelly slightly sandy CLAY tending to clayey grapredominantly of mudstone. Very strong odour of hydrocarbons. Contains some pieces of scrap me (possibly old car parts) and occasional fragments plastic and blacktop. Occasional pieces of wood a wires. (Landfill Waste)	ey very livel tal of	1 -
	2.00 2.00 2.50 2.50	JG JP JG JP		2.10			MADE GROUND comprising of grey very gravelly CLAY with occasional cobbles of mudstone. Contcobble size fragments of brick and concrete with occasional scrap metal and pieces plastic. Gravel predominantly of mudstone. Occasional breeze bloelow 3.0m. Slight odour of hydrocarbons. Arising Difficult digging due to large boulder size fragmen limestone and concrete below 3.0m. (Landfill Was	locks dry. ts of	2 —

Remarks: Trial pit ceased at 3.6m as excavator was unable to break up a large slab of concrete. Arisings dry. Trial pit backfilled with arisings on completion.

3.60

Stability: Slight spalling.

3.00

3.40 3.40 В

JG JP



5 -

3

End of Pit at 3.60m

00000	(g)							TrialPit	No
						Tı	rial Pit Log	T19-2	24
geo cons engineeri	ulting ng Itd						10.11.11.10.9	Sheet 1	of 1
Projed		m I andfill		Proje	ect No.		Co-ords: -	Date)
Name	e:	III Landiii		GCE	00692		Level:	04/03/20	020
Locat	ion: Eales Far	m, Tamar	View Industrial	Estate, Sa	ltash		Dimensions (m):	Scale 1:25	
Client	:: Burcombe	e Haulage					Depth 4.70	Logge	
ter ike	Samp	ples & In Sit	u Testing	Depth	Level	Logond	Ctroture Description		
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum Description		
	0.20 1.30 1.30	JG JP		0.30			Moss over MADE GROUND comprising sof slightly gravelly sandy CLAY with some roo occasional fragments of scrap metal. (Land MADE GROUND comprising firm to stiff brobrown gravelly slightly sandy CLAY with me content comprising fragments of brick, conclimestone. Contains occasional pieces of w from old pallets or fence posts) and old root comprises mixture of mudstone, granite, briblacktop and concrete. (Landfill Waste)	ellets and fill Waste) bwn/greyish dium cobble trete and bood (possibly s. Gravel ck fragments,	1 —
	2.10 2.10	B JP					MADE GROUND comprises damp/wet soft very gravelly CLAY with some cobbles of cobrick. Gravel predominantly comprises much occasional pieces of plastic and ceramic posome wood fragments (possibly from old paposts) and old roots up to 5mm diameter. (I	oncrete and stone with ttery. Contains allets or fence	2

Remarks: Trial pit ceased at 4.7m as excavator struggling to continue due to the depth. Arisings damp/wet below 1.5m.

Strong odour of hydrocarbons within arisings. Trial pit backfilled with arisings on completion.

3.00

4.70

Stability: Some minor collapse within trial pit walls.

2.50

3.00

3.40 3.40 3.40

3.90

4.40

JG

JΡ

B JG JP

JΡ

JΡ



5 -

3

MADE GROUND comprising firm brown (with dark grey lenses) gravelly slightly sandy CLAY. Gravel contains mixture of mudstone, concrete and granite. Cobbles and boulder size fragments of concrete and blacktop. Contains occasional pieces of rebar and some plastic. (Landfill Waste)

End of Pit at 4.70m

	_							Tui alDit I	NI a
	(g)					т.	cial Dit Loa	TrialPit I	
geo cons	ulting					11	rial Pit Log	Sheet 1 d	
Project	ng ltd			Proie	ect No.		Co-ords: -	Date	JI 1
Proje Name		m Landfi	II	-	00692		Level:	04/03/20	20
l ocat	ion: Fales Fari	m. Tama	r View Industrial	Estate, Sa	ltash		Dimensions	Scale	
							(m): Depth	1:25 Logged	4
Client	: Burcombe	Haulag	e				3.40	RA	и
Water Strike			itu Testing	Depth	Level	Legend	Stratum Description		
<u> </u>	1.10 1.10 1.10 1.10	B JG JP	Results	1.30	(m)		Moss over MADE GROUND comprising soft to very gravelly slightly sandy CLAY with occasion of mudstone. Gravel predominantly comprises a platey mudstone. Occasional tree root with dian 25mm. Contains some fragments of blacktop, b quartz, plastic and concrete. Occasional breeze from 0.9m. (Landfill Waste) MADE GROUND comprising firm grey (locally b very gravelly (locally gravelly) slightly sandy CL occasional organic matter. Gravel predominantly comprises mudstone. Contains some fragments concrete, rebar and bricks with occasional breeze fragments of blacktop throughout increasing in abundance below 2.0m. (Landfill Waste)	al cobble angular neter up to rick, blocks prown grey) AY with y s of	1
	2.10 2.10	B JP							2
	2.80 2.80	JG JP							-
	3.10	JP		3.00			MADE GROUND comprising dense? greyish br clayey sandy GRAVEL with medium cobble con Gravel and cobbles comprise fragments of cond limestone with some fragments of blacktop, bric plastic. (Landfill Waste)	tent. crete and	3 -
	3.40	В		3.40			End of Pit at 3.40m		- - - - - -

Remarks: Trial pit ceased at 3.4m as excavator struggling to get through rubble. Arisings dry. Trial pit backfilled with arisings on completion.

Stability: Some instability in trial pit walls with mulT19-ile collapses during excavation.



00000	(ģ)								TrialPit	No
	0000					- Tı	rial Pit Log		T19-2	26
geo cons engineeri	ulting ng ltd						3		Sheet 1	of 1
Proje	ct Eales Far	m I andfi	II	Proje	ect No.		Co-ords: -		Date	
Name): 	Landi		GCE	00692		Level:		04/03/20	
Locat	ion: Eales Far	m, Tama	r View Industrial I	Estate, Sa	ltash		Dimensions (m):		Scale 1:25	!
Client	:: Burcombe	: Haulag	e				Depth 4.70		Logge	d
ter ke	Samp	oles & In S	itu Testing	Depth	Level					
Water Strike	Depth	Туре	Results	(m)	(m)	Legend	Stratum De	escription		
	0.50 1.00	JG		100			MADE GROUND comprising s gravelly CLAY with fragments of and concrete. Occasional old r 100mm. Occasional boulders of (Landfill Waste)	of plastic, blacktop, oots and rootlets in	brick top	1
	2.00 2.00 2.00 3.00	B JG JP		1.80			MADE GROUND comprising o gravelly slightly sandy CLAY w fragments of concrete, brick ar predominantly mudstone (angu odour of hydrocarbons. Some occasional boulders of blacktoplastic, and whole bricks. Below fragment of concrete with rebadamp/wet below 4.0m.	ith cobble and gravel blacktop. Gravel ular and platey). Slig cobbles of mudston p. Occasional fragn w 3.5m boulder size	el sized ght ne and nents of	2

Remarks: Trial pit ceased at 4.7m as excavator struggling to continue due to the depth. Arisings becoming damp/wet below 4.0m. Trial pit backfilled with arisings on completion.

4.70

Stability: Continious collapse of trial pit sides during excavation

4.00

JG



5 -

End of Pit at 4.70m

Tamar View Landfill Appendix D

Appendix D Tables

KA 7 000	1 Dec 1 Dec 1	T so I so I	22 22 12	200	21 21 2	20	200	47 415 4		177	212	100	17 11 11	10	1 10 10															20 00 00	77	7	100	200	27 27				2 12 12		11 11 4	FERRICHER	O MAD ANYTHE MA	1		17 HO 180 HO 100 HO 100 HO			
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Table D2 Existing Eales Farm Landfill - Soil Leachate Testing Data



Location	1			Δεερεεί	ment Criteria		мвн1	MBH2	MBH4	MBH5	мвн6	MBH7	МВН9	MBH10	MBH11	MBH12
Top Depth (m):	-			1	inent ontena	ı	1	1.5	7.5	4.1	10	3	10.0	6.0	6.0	3.0
Geology	-						Waste	Waste	Waste	Waste	Waste	Waste	Waste	Waste	Waste	Waste
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			EQS (Freshwater)	Source		Source	07-04-2016	07-04-2016	07-04-2016	08-04-2016	-2016	04-2016	-2016	3-04-2016	04-2016	-2016
Date Sampled:			sh	ŏ.	m	S	4	4	4.	4	4.	4	4	4	4.	4.
			EQS (Fres	EQS	DWS	DWS	2	2.0	2	8	06-04	960	12-04	5	5-0	3-04
Arsenic	μg/l	1.0	<u>ш —</u> 50	UK AA EQS	10	UK	2.9	8.2	6.1	19	7.6	E0	7.2	17	1.3	38
Boron		20	2000	UK AA EQS	1000	UK	<20	<20	48	53	31	61	59	56	26	46
Cadmium	μg/l	0.080	50	UK AA EQS	1000	UK	<0.080	<0.080	<0.080	0.089	<0.080	0.12	<0.080	<0.080	<0.080	<0.080
Chromium	µg/l	1.0	4.7	UK AA EQS	50	UK	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	4.3	2.6	4.1
	μg/l	1.0	10	UK AA EQS	2,000	UK	2.0	4.7	3.8	14	5.3	13	2.9	4.0	130	71
Copper	μg/l				_						_					
Mercury	μg/l	0.50	0.05	UK AA EQS	1.0	UK UK	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 2.5	<0.50	<0.50	<0.50	<0.50 3.7
Nickel	μg/l	1.0	20	UK AA EQS	20	UK	<1.0	<1.0	<1.0	1.1	<1.0		<1.0	<1.0	<1.0	
Lead	μg/l	1.0	7.2	UK AA EQS	10		2.1	<1.0	5.0	34	1.4	45	<1.0	<1.0	<1.0	31
Selenium 	μg/l	1.0	-	-	10	UK	<1.0	<1.0	1.2	1.2	1.6	<1.0	1.2	<1.0	<1.0	3.0
Zinc	μg/l	1.0	75	UK AA EQS	5,000	USEPA	1.3	<1.0	1.6	13	<1.0	10	2.0	1.2	1.2	11
Chromium (Hexavalent)	μg/l	20	3.4	UK AA EQS	50	UK	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Aliphatic TPH >C5-C6	ua/l	0.10		1		_	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aliphatic TPH >C5-C6 Aliphatic TPH >C6-C8	μg/l	_	<u> </u>	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
•	μg/l	0.10		<u> </u>	-	-					_	_				
Aliphatic TPH >C8-C10 Aliphatic TPH >C10-C12	μg/l	0.10	-	-	-	-	<0.10 <0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	86 <0.10	<0.10 <0.10	<0.10 <0.10
	μg/l			-	-							<0.10				
Aliphatic TPH >C12-C16	μg/l	0.10		-		-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	3.3	<0.10	<0.10
Aliphatic TPH >C16-C21	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	8.9	<0.10	<0.10
Aliphatic TPH >C21-C35	μg/l	0.10		-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	61	<0.10	<0.10
Aliphatic TPH >C35-C44	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Aliphatic Hydrocarbons	μg/l	5.0	-	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	160	<5.0	<5.0
	1			1	1	1	0.40				0.40					
Aromatic TPH >C5-C7	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aromatic TPH >C7-C8	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aromatic TPH >C8-C10	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	32	<0.10	<0.10
Aromatic TPH >C10-C12	μg/l	0.10		-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	2.9	<0.10	<0.10
Aromatic TPH >C12-C16	μg/l	0.10		-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	57	<0.10	<0.10
Aromatic TPH >C16-C21	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	160	<0.10	<0.10
Aromatic TPH >C21-C35	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	370	<0.10	<0.10
Aromatic TPH >C35-C44	μg/l	0.10		-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Aromatic Hydrocarbons	μg/l	5.0	-	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	620	<5.0	<5.0
Total Petroleum Hydrocarbons	μg/l	10	-		10	UK (revoked)	<10	<10	<10	<10	<10	<10	<10	780	<10	<10
Total Petroleum Hydrocarbons	µg/i	10		_	10	UK (revoked)	<10	<10	<10	<10	<10	<10	<10	780	<10	<10
Naphthalene	μg/l	0.10	1.2	UK AA	_	_	<0.10	<0.10	0.76	0.53	0.75	0.84	<0.10	0.75	<0.10	<0.10
Acenaphthylene		0.10	1.2	UK AA		-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.75	<0.10	<0.10
	μg/l	0.10		-	-	-	<0.10	<0.10	<0.10	<0.10				3.8	<0.10	<0.10
Acenaphthene	μg/l			-	-	-					<0.10	<0.10	<0.10			
Fluorene	μg/l	0.10		-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1.6	<0.10	<0.10
Phenanthrene	μg/l	0.10	- 0.4	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	11	<0.10	<0.10
Anthracene	μg/l	0.10	0.1	UK AA	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	5.5	<0.10	<0.10
Fluoranthene	μg/l	0.10	0.1	UK AA	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	11	<0.10	0.52
Pyrene	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	9.9	<0.10	0.65
Benzo[a]anthracene	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	5.2	<0.10	<0.10
Chrysene	μg/l	0.10		-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	5.6	<0.10	<0.10
Benzo[b]fluoranthene	μg/l	0.10	-	<u> </u>	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	5.8	<0.10	<0.10
Benzo[k]fluoranthene	μg/l	0.10		-		-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	3.2	<0.10	<0.10
Benzo[a]pyrene	μg/l	0.10	0.05	UK AA	0.01	UK	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	4.8	<0.10	<0.10
Indeno(1,2,3-c,d)Pyrene	μg/l	0.10	-	<u> </u>	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	3.3	<0.10	<0.10
Dibenz(a,h)Anthracene	μg/l	0.10		-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	2.4	<0.10	<0.10
Benzo[g,h,i]perylene	μg/l	0.10	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	4.0	<0.10	<0.10
Total Of 16 PAH's	μg/l	2.0	-	-	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	79	<2.0	<2.0
				T												
pH	_	N/A	6 - 9*	UK DWS	6.5 - 8.5	WHO	7.8	7.8	7.7	8.2	9.8	8.8	8.7	9.6	9.2	9.1
													. 04	0.4	32	47
Hardness Total Organic Carbon	mg/l mg/l	15 2.0	-	-	-	-	63 4.3	93 5.7	86 11	47 12	57 6.7	55 11	34 4.0	31 11	4.0	52

Tables produced based on data provided by GCE. Horizon has not been provided with original laboratory certificates for inspection.

Where a contaminant concentration slightly exceeds the adopted assessment criteria, and this is assumed by Horizon to be due to the laboratory reporting limit, this has not been highlighted as an exceedance.

ERC - Laboratory Reporting Limit
EQS - Environmental Quality
* - DWS - Drinking Water Standard
UK - United Kingdom
AA - Annual Average

Denotes exceedance of DWS

Denotes exceedance of EQS

Denotes exceedance of DWS and EQS



Sample Location			L	Assessment Criteria	riteria	-											BH2A													ВНЭ		
Screened Geology			(1et)													Was	Waste (Leachate	ate)											×	Waste (Leach	:hate)	
Determinand	Units	LRL	EQS (Freshwa	ЕДЅ Ѕопсв	DMS	DWS Source	910S-guA-11	7102-Y6M-42	7102-nul-80	7102-lu1-72	2102/80/91	7102/60/92	7102-30-92 7102-40N-22	13-Dec-2017	10-Jan-2018	26-Feb-2018	8102-18M-72	8102-1qA-82	8102-YsM-62	8102-lut-81	810S-guA-£1	8102-voN-08	82-464-2019	26-Aar-2019	9102-1qA-08	6102-nul-32	20-Feb-2020	8102-18M-TS	810S-guA-£1	8102-voN-08	14-Dec-2018	29~Jan-2019
Hd		N/A	_* 6 - 9	UKDWS	6.5 - 8.5	МНО	7.8	8.2			8.2 7.	7.1 7.1	.1 7.0	0 8.3	8.1	7.3	7.0	0''2	7.2	1.8	8.3	8.2	7.0 7		8.3 8.3	3 8.2	8.0	7.9	7.9	8.1	7.5	8.1
Electrical Conductivity	m2/cm	-	1000	UK DWS	2500	ž	640	540	520	,	490	<u> </u>	- 640	- 0		650			640		009	530	و.	099	- 730	- 0	470	098 (1000	009		
Suspended Solids	l/gm	5										H		-							1400	400	4)	260	- 2400	- 00	2900	- 0	440	260	٠	
Alkalinity (Total)	mg CaCO₃/I	10	·				280	290	330	Ë	300	-	- 340	- 0	٠	280			310		310	330	- 4	410	- 280	- 0	290	200	390	380	٠	
Chloride	l/gm	-	250	UK (Non Statutory)	250	Ϋ́	45	44	46		43	-	- 45			42			43		43	43		39	- 40		36	19	24	16	٠	
Ammoniacal Nitrogen	l/gm	0.01	9.0	UK AA EQS	0.05	EU	4.8	4.4	4.0	4.0	3.9	7 4	7 4.	0 4.1	4.4	4.2	5.1	4.7	3.9	4.4	3.6	5.2	4.0	2.1 4	4.2 3.	3 4.2	0.28	98.0	0.38	2.4	5.6	1.1
Nitrite	l/gm	0.02			9.0	×	<0.020	<0.020	0.058 <0.	020	0.044 0.	0.13 0.0	0.062 0.048	48 <0.020	0.020	0.021	0.021	0.022	<0.020	<0.020	<0.020	0.035 0	0.16 0	0.25	1.1 0.56	0.032	2.0	0.13	0.10	0.18	0.050	0.026
Nitrate	l/bm	9.0			20	Ϋ́	<0.50	<0.50	<0.50	<0.50 <0.	0.50 <0	.50 <0	.50 <0	.50 2.3	<0.50	0.56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	4.7	2.5 0.5	55 <0.5	.50 6.7	2.9	4.2	15	11	4.9
Sulphate	l/gm	+	400	UK AA (Non Statutory)	250	Ϋ́	14	13	16		15	-	- 13	3 13	15	13	14	16	15	13	14	14	. 41	18	14 37	7 14	16	22	140	86	100	91
Calcium	l/bm	2	٠				-22	1.1	79		. 66	-	- 82			64			7.8		29	61		74	- 73		98	170	190	140	٠	
Potassium	l/gm	0.5	٠				5.3	4.4	4.2	Ë.	5.7	-	- 4.7			4.3			4.7		3.8	5.4	,	4.9	- 8.2	2 -	14	7.4	8.2	7.7	٠	
Magnesium	l/bm	9.0					11	9.3	8.4		13		- 11	-	٠	9.2			10		7.4	10	,	11	- 8.6	- 9	12	21	24	19	٠	
Sodium	l/bm	0.5	٠		200	NK	25	23	21	-	34	H	- 29	- 6		27			29		20	30	-	44	- 36		39	14	18	13		-
Hardness	l/bu	15	٠				240	220	230	.,	. 290		- 250	- 0		200			240		200	190	- 2	230	- 220	- 0	260	510	260	420		-
Arsenic (Dissolved)	l/Brl	1	90	UK AA EQS	10	NK	4.8	3.8	2.2		1.8		- 3.5	- 2		2.1	_		1.9	-	1.7	2.5	-	1.1	- <1	- 0:	<1.0	.0 40	40	27	-	-
Boron (Dissolved)	l/6rl	20	2000	UK AA EQS	1000	λn	1500	22	450	-	. 026		- 870	- 0.		530			29		52	43		33	- 530	- 0	630	160	160	66		-
Cadmium (Dissolved)	l/Brl	0.08	90	UK AA EQS	10	NK	<0.080	0.23	0.11	9 -	0.44		- <0.080	- 080		96.0	_		<0.080	-	0.10 <	<0.080	0 -	0.11	- 0.88	- 88	0.50	080:0>	0.19	<0.080	-	-
Chromium (Dissolved)	l/6rl	1	4.7	UK AA EQS	90	NK	1.9	2.0	1.7	,	-1.0	<u> </u>	- 1	- 0:		<1.0			<1.0		<1.0	<1.0		<1.0	- 1.8	- 8	<1.(0 2.8	2.7	<1.0		-
Copper (Dissolved)	l/Brl	1	10	UK AA EQS	2,000	NN	<1.0	2.0	1.2		-1.0		- <1.	- 0:		5.8			<1.0		<1.0	1.4		1.5	- <1.0	- 0.	2.7	8.3	4.3	11	٠	-
Iron (Dissolved)	l/Brl	20	1000	UK AA EQS	200	UK		890	220	000	180 22	220 38	380 230	10 520	150	1000	280	450	160	1300	150	610	<20 5	520 2	230 140	0 180	190	360	280	210	280	170
Mercury (Dissolved)	l/Brl	0.5	0.05	UK AA EQS	1.0	NK	<0.50	<0.50	<0.50	Ý	<0.50		- <0.4	- 09:		<0.50			<0.50		<0.50	<0.50	- <0	0.50	- <0:	- 09	<0.5	.50 <0.50	<0.50	<0.50		-
Manganese (Dissolved)	l/6rl	1	30	UK AA EQS	20	NK N	2900	7500	4600	300 7	300 68	22 00	00 116	7300	2800	4400	7600	7500	6100	0029	6800	3900 2	100 2.	800 1	99 006	00 880	0 1700	0 180	450	200	36	15
Nickel (Dissolved)	l/Brl	1	20	UK AA EQS	20	UK	3.2	4.9	2.3		2.6		- <1.	- 0:		2.9	-		1.6	-	2.9	2.3		<1.0	- 2.	- 1	1.1	1.4	1.5	1.2		-
Lead (Dissolved)	l/Brl	-	7.2	UK AA EQS	10	Ϋ́	<1.0	1.3	<1.0		. 0.1>		۲.	- 0:	٠	4.9			<1.0		<1.0	<1.0		<1.0	- ^1	- 0	<1.0	0 <1.0	<1.0	<1.0		
Selenium (Dissolved)	l/Brl	-	٠		10	Ϋ́	26.0	1	7.7		12	-		- 0:		5.0			0.7		6.7	12		12	- 7.9	- 6	8.5	4.7	2	9.9	٠	
Zinc (Dissolved)	l/6rl	-	75	UK AA EQS	2,000	USEPA	3.1	20	9.4		6.3	-	- 3.7			5.5			1.8		5.6	3.2	,	17	-	- 0.	2.2	23	9.9	9.4	٠	
Chromium (Hexavalent)	l/Brl	20	٠				<20	<20	<20	_	<20	H	- <20	- 0		<20	·		<20		<20	<20		<20	- <20	- 07	<20) <20	<20	<20		-
Total Organic Carbon	l/6m	2	٠				12	9.4	12		. 6.4	H	- 11	1 6.2	0.9	21	23	8.8	5.1	32	46	-	8.3	12	1.7 7.1	1 4.3	3.8	1 22	77	19	8.4	4.5
Total TPH >C6-C40	l/6rl	10	٠		10	UK (revoked)	<10	<10	<10	1	- 10	_	- <10	- 0	'	<10		٠	<10		<10	<10		<10	- <10	0	<10	0 <10	<10	<10	٠	٠
Total Of 16 PAH's	l/Brl	2	·			NN	<2.0	<2.0	<2.0	Ť	<2.0	H	- <2.0	- 0:	'	<2.0	Ŀ		<2.0		<2.0	<2.0		<2.0		-2.0	<2.0	0 <2.0	<2.0	<2.0	•	

Notes

EGS - Rivoromental Loads / Standard

- DWS - Driving Water Standard

-- Cols a for Phenol applied

-- Cuts afor Phenol applied

-- Cuts afor Phenol applied

-- Arrana Avan applied

An - Arrana Avan applied

-- Arrana Avan

Sample Location		Γ		Assos smont Critor is	ris	F										l	84118	18											ī	89119-1	Ē	89119.2	89119-3	H	89119.4	86419-6	-	BH19-8
Screened Geology		Ī		-		L										â	Bodrock (Groundwallsr)	and and tax	,											Mudstone	H	Mudsbare	Mudstone	H	Mudstone	Mudsbone	H	Mudstone
Determinand	Uve	š	(10fewdeorit)	eoutog gb3	DM2 SOUCE	\$105-guA-11	T NOS-YEMP P.S.	7105-guA-81	T1:05-vois-55	1105-30G-E1	STOS-MAL-OF	\$1.02-99#9Z	8105-mM-72	8102-AW-62	81-02-mst-92	8105-101-81	B105-guA-E1	8105-qe8-85	8162-130-92	8105-4016-00	0107-207-11	#102-may-	6105-WW-92	8102-1d4-00	gsoz-Anw-ez	6102-unc-92	6102-81Y-90	GLGE-NON-12	0202-99.6G	0205-14M-81	0202-Anth-12	0202-A##-12	0202-JFW-91	0202-A##-12	0202-MM-01	0202-#W-01	0202-A##-12	0202-JW-01
H		192	.6.9	UK DWS 6.6	0HM 98-1	8.4	8.3	8.2	7.2	82	8.4	8.2	7.3	7.0 7.4	8.4	8.3	8.4	8.1	7.0	8.2 7	.6 8.	8.0 7.1	62 1	8.4	8.4	8.3	8.1	8.1	8.1	8.6	8.5	8.4	8.8	8.3	8.4	8.4	98	8.3
Electrical Conductivity	nastru	-	1000	UK DWS 2	2500 UK	630	0.09	630	069			630	ŀ	. 880	ŀ		610	ŀ	ŀ	210	Ľ	Ė	630		089	٠	000	900	900	710	670 66	900 900	750	97.0	009	620	000	610
Suspended Solids	(Gu	9				Ŀ	ŀ	٠					Ė		ŀ		1100			470	Ė	Ľ	730		1700		1500	84	1000	130	140 45	6.0 6700	0.00	220	9.0	<6.0 7	0000	<6.0
Albalinity (Total)	rrgCaOOJ1	10				230	230	270	330			220	Ė	- 240			240		Ė	240	Ė		220		280	٠	280	230	240	210	200 21	210 210	410	140	069	380	140	470
Chloride	rgn	-	250 UK	UK (Non Statutory) 2	250 UK	31	98	82	8			35		- 30			36			88		Ľ	28		98	-	35	31	31	8	8	41 41	8	8	32	35	36	30
Arreno niscui Ná trog en	rgn	0.01	9.0	UK AAROS 0	0.05	0.35	\$ 0.014	92.00	59'0	023	0.20	0.85	0 22	0.33 0.093	1.0	0.24	0.24	1.3	1.2	2.6	2	2	0.093	0 22	177	0.8	0.13	*0.050	0.000	215	40.050 0.1	0.05 +0.050	88	×0.050	0.00	80'0	-0.050	0.09
Nitrite	(Giii	0.02			0.6 UK	40,020	920 020	0 <0.020	0.056	020 O>	+0.020 A	40.020 0	0.27 0.0	3,022 40,020	28 0 0 0 32	0.42	220.0	> 0000 tb	40,020 0	0083	0.056 0.0	0.067 0.060	30 0.022	2 0.033	0.2000 > 6	07000>	0.039	6600	- 000.0>	> 0.000:	<0.020 40.1	40,020 40,020	0.022	0.081	-0000 OP	> 00000	40.020	<0.020
Narote	fgm	970			30 OK	3.7	2.7	2.7	2.5	4.5	3.4	2.8	3.7 6.	5.0 2.0	4.4	9.0	4.5	6.8	. 19	4.5	3.4 3.1	3.5 2.9	21	27	3.7	3.7	979	3.1	4.3	11.0	7.3 11	11.0 13.0	979	2.0	6.9	12	090>	16.0
Suphala	rgn	-	400 UK A	UK Al (Non Batutory) 2	250 UK	25	8	10	100	9.6	89	15	20	68 52	8	69	19	240	2.20	92	88	99	45	130	89	8	99	19	25	11	69 61	47	27	19	1.1	2.9	83	81
Caldium	rgn	10				61	8	90	ă			23	ŀ	. 67			8			83		Ľ	69		8	٠	19	7.5	22	11	80	51	9.6	10	83	35	99	8
Potessium	rgi	90				2.7	2.8	4.5	5.8			8.9	Ė	- 41			2.0			7.3		Ľ	6.5		2.6		1.8	8.5	6.3	3.1	3.2 1.	1.4 2.1	1.6	6.4	7.6	4.3	4.9	40.50
Magnesium.	(Giii	970				31	82	8	24			30		- 26			88			12		Ė	13		29	٠	88	13	22	17	21 2	23 23	3.6		2.0	22	92	23
Sodum	(6m	970			300 UK	21	18	92	90			34	Ė	- 21	٠		18			18	Ė	Ė	4.7		21	٠	19	18	80	33	37 28	20 21	8'2	99	38	35	22	2.4
Hardwas	rgn .	22				200	280	350	330			240	Ė	270			250		Ė	300		Ė	230		270		230	240	230	380	280 22	220 220	8	8	330	230	230	330
Assento (Dissolved)	p Brit	-	90	UK AA EGS	10 UK	1.2	× 10	41.0	1.7			410		- 41.0			41.0			41.0	Ė		41.0		410		41.0	1.3	41.0	2.3	41.0 41	41.0 41.0	1.7	1.2	9.5	41.0	1.0	41.0
Boron (Dissolved)	p Det	30	3000	UK AAEGS 11	1000 UK	1100	97	1350	11000			1000		- 20			77			72			33		370	٠	38	1350	35	940	<20 60	500 24	079	98	089	6.40	57	900
Cadmium (Dissolved)	LGH.	90'0	20	UK M EQS	10 UK	40.080	0.800 0> 0.000	08000> 0	0.22			-0.00.0×		- 40.090	. 0		08 0'0 >			40.080	Ė		40.080	. 06	<0.080		40.080	40.080	-0.000 th	> 0800>	< 0.00 00 40.1	40.090 40.090	40.080	-0.00.0×	-0000p	> 0800>	40.080	<0.000 >
Chromium (Dissolved)	LGH.	-	4.7	UK AAEGS (30 UK	1.1	2.2	< 1.0	<1.0			2.1	Ė	- 6.8	٠		6.4			4.6	Ė	Ė	<1.0		1.6	٠	16	7.6	<1.0	1.2	4.5 1.	12 28	1.0	6.0	41.0	<1.0	2	1.3
Copper (Dissolved)	p Brit	-	10	UK AAEGS 2:	2,000 UK	2.2	2.1	41.0	41.0			1.2	Ė	- 10			41.0		ŀ	3.6	Ė	Ė	12		0.1 >-		41.0	32	41.0	4.8	1.5 5.	5.4 1.1	4.2	2.6	6.5	1.5	1.6	2.0
fron (Dissolved)	(Cri	92	1000	UK AAEGS 2	200 UK		378		280	280	120	260 3	1000	170 120	180	160	110	280	430	280	150 61	61	<30 3.60	0.11	110	1.40	140	689	120	380	32	320 260	380	160	820	220	982	410
Nexusy (Dissolved)	LGH.	970	0.05	UK M EGS	1:0 UK	<0.50	90 40.50	90.50	40.50			40.50	Ė	- <0.50			90.00			40.50		Ė	<0.50	. 00	40.50	٠	<0.50	<0.50	40.50	40.50	40.50	<0.50 <0.50	40.50	0.84	<0.50	+0 50 o+	020>	40.50
Manganese (Dissolved)	101	-	30	UK AA EGS	NO OK	6.9	98 6	29	20077	1.5	2.7	9.9	8.6 7.	7.9 27	15	2.2	285	11	3.4	2 69	2.3 62	41.0	02 0	2.0	=	2.6	5.7	3.7	14	90	3.1 8	4.8	220	43	88	1100	000	23
Nobel (Dissolved)	LGH.	-	20	UK AAEGS	30 OK	41.0	1.2	41.0	2.7			410	ŀ	- 41.0			41.0			01.0		Ľ	41.0		41.0	٠	1.0	41.0	410	1.5	41.0 1.	1.7 <1.0	8.8	2.1	2.3	2.8	7.4	2.3
Lead (Dissolved)	p Det	-	7.2	UK AA EGS	10 UK	0.15	0.1>	<1.0	<1.0			<1.0	ŀ	- <1.0			<1.0		Ė	0.10	Ė	Ė	<1.0		<1.0	٠	<1.0	<1.0	<1.0	3.2	<1.0 2	2.9 <1.0	<1.0	41.0	1.9	<1.0	41.0	<1.0
Seleni um (Dissolved)	101	-			10 UK	2.0	1.2	<1.0	6.4	٠		171	ŀ	- <1.0			-			1.6	ľ		<1.0		<1.0		1.3	2.6	<1.0	1.6	<1.0 1.	1.5 1.4	1.6	1.4	2.1	2	0.15	4
Zin o (Diesol ved.)	101	-	7.6	UK AAEGS 6.	5,000 USEPA	14.0	0 21	2.9	<1.0			3.3		. 33			<1.0			1.6			<1.0		<1.0	٠	1.1	7.2	1.2	16	9 076	50 4.6	98	13	11	61	6.2	10
Chromam (Houselett)	p Brit	93				420	420	420	CC>			4.20		- 000			00			420			420		420		930	~20	4.20	4.20	8	<20 <20	420	8	+30	930	900	430
Total Organic Carbon	rgi	2				8.7	1.0	2.3	12	3.3	3.4	9.6	22 4.	4.1 3.6	7.0	82	09	7.0	3.6	17 4	4.5	11 99	11 7.3	8.8	3.5	28	4.4	16	42.0	3.1	20 2	<2.0 <2.0	42.0	4.4	420	42.0	3.9	42.0
Total TPH+OS-C40	p Det	10			10 UK (revolued)	00Q) 340	01>	<10	<10			< 10	ŀ	- <10	٠		<10		ŀ	< 10	Ė	Ė	<10		< 10	٠	<10	<10	< 10	< 10	<10 <1	<10 <10	<10	988	< 10	<10	<10	<10
Total Of 16 PAHrs	101	2			Yn .	42.0	0 <2.0	<2.0	<2.0			<20	-	. 420			920		Ť	<20	Ė	Ľ	<20		42.0		<2.0	<20	<2.0	42.0	20	<2.0 <2.0	<2.0	<2.0	<20	9.0	9.0	<2.0

Address:
The produced based on oldary probled by QCE. Hopton has not been provided with original abona by certified. When a contaminent or on enterior ideby a social site indicated management or treat, and this is secured by the

Where a contaminant con oriention slightly axes
URL - Lib orienty Reporting Limit
EGS - Environment II Quality Standard
"- UNIS - Driving Water Samalari
"- Cottants for Phenol applied

		6102-vole-12 6262-de3-61 0265-yaM-12	8.1 7.8 8.1	740 560 660	100 T 78	240 330 410	30 34 30	4.72 +0.050 +0.050	OD 0+ 0000+ 0000+	5.9 T.S 2.T	89 85 68	270 130 97	15 10 6	21 16 13	31 223 19	760 360 300	22 2.4 3.0	610 110 91	-0.060 -0.060 -0.060	<10 <10 TS	2.4	285 239 389	÷	1.9 2.1 3.1	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	1.6 1.0 1.0	6.5 6.7 6.0	400 400	15 4.2 2.9	410 410 410	420 420
			1.6	1,50	- 0%	200	76	030	33 40	3.3	19	99	7.4	16	22	300	Н		-0.060 A	Н	-	_	-	14	3.4	* 01>	. 91	12	8	6.9	*10	- 075
		eres-nuc-as	8.1					0.78	020.03	2.6	19											233	-	2.1						2.8		
		6105-yaM-82	8.3	1/80	2	980	31	1.60	02000+	2.3	99	11	1.6	13	8.1	33	1.7	600	-00.080 -00.080	2.0	410	180	*0.50	1.6	<1.0	<1.0	1.2	410	8	3.9	410	42.0
		6105-1qA-00	8.4					6736	0.31	5.7	53											160		545						6.1		
		6105-14M-35	8.1	710	30	670	50	090'0>	02000+	4.1	99	20	0.2	1.6	21	230	1.7	99	40,080	410	2	595	*0.50	6.3	<1.0	<1.0	1.0	2.0	88	0'6	410	42.0
		6102-092-82	7.7					1.80	02000>	6.5	- 68											26		979						=		
		6105-nat-85	8.2					2.4	020.0>	5.4	1.1											100		<1.0						970		
		8162-360-91	7.4					4.70	920	10	96											280		2 2						62		
		8102-voin-80	8.1	000	99	310	20	2.65	0.059	7.4	99	110	10	1.6	23	300	2.9	00	<0.060	4.9	9.5	380	40.50	100	<1.0	<1.0	2.0	0.0	8	10	<10	420
	UNNEL	8102-120-52	7.1					0.23	020.0>	3.7	2.0											323		2.8						3.9		
883 WS	Mater Flowing Beneath Culvert	81-82-d#9-92	8.0					120	02000>	4.1	8											250		2.1						16		
183	Rowing B		8.0	098	0.85	360	09	0.42	020.0>	4.2	100	120	7.7	16	19	sro	1.9	110	<0.080	7.0	2	220	*0.50	2.2	<1.0	<1.0	1.6	7.6	000	29	~10	<2.0
	Weter	8182-97-81	8.1					412	02000>	8.8	18											423		1.5						98		
		8165-mc-85	8.2	-				490	1700'0	3.8	2.6											280		4.8						7.8		
		01-02-Ann-62	7.4	008	-	380	×	0.72	02000>	2.5	99	120	910	16	52	sro	2.8	100	0900b	8.1	20	289	40.50	2.4	410	<10	1.6	2.0	8	16	410	075
		8105-1qA-85	7.1		-		٠	0.633	015	979	88				٠	٠	٠		-			233	٠	13	-		٠	٠	٠	975	٠	٠
		8166-14M-72	7.4	-				1.0	9200	9'9	1.1											220	٠	5.7						17		
		8166-467-85	7.3	099		240	30	999	02000>	28	22	8	0.2	13	19	270	20	1.1	40,080	10	+	210	1.6	2	<1.0	<10	2.1	4.6	8	2	410	<2.0
		01-05-nel-01	8.1					919	02000>	6.9	98			٠	٠		٠				-	140	-	1.1					٠	6.8		
		T145-36G-E1	8.1					4.42	02000>	8.8	06			٠	٠		٠				-	430	-	1.7					٠	92		
		T105-40M-EE	7.0	780	٠	920	30	600	9900	4.7	R	140	9.1	8	92	420	Н	099	40.080	Н	+	-	*	16	<1.0	4.0	4.0	4.0	8	22	410	42.0
			8.1	099		370	30	0.75	000.05	3.0	20	130	6.9	10	22	400	Н	Н	40.080	·	-	\dashv	-	2.0	4.0	<10	1.6	10	89	37	~10	42.0
П		7105-mt-90	7.9	98		160	8	8	20 024	08	22	96	69	0.1	Н	270	Н	Н	09070> 06	Н	+	\rightarrow	_		012	0.15	410	=	8	7.4	01>	0.00
П		ZSGE-ANN-PE	8.0	089		OE	31	0.025	02010× 0.	2.9	11	130	9.0	10	21	400	Н	Н	40,080	-	-	-	*	91	<10	410	1.6	12	8	9 2	410	420
Ц	Ц		18	098 0	ŀ	380	×	0.23	02000 or	31	E	140	0'0	30	Н	430	Н		00	Н	20	-		_	0 <10	0 <10		12	8	5	410	0.20
П		0505-YaM-15	8.4	380	8	150	92	979	090'0 or	7	8	19	62	7.2	18	130	Н		090 °C 00	Н	-	\dashv	-	_	0.15	0.5	4.0	pt	8	42	410	0.00
		0202-093-61	7.8	0 330	0 62	99 0	92	0.09	000 to 00		91	66	5.9	Н	Н	130	-		90 40.000	Н	\dashv	-	_	3.5	0 <1.0	0.15	41.0	13	000	0.9	01 +10	0 42.0
		6105-V0M-TS	8.1	0 300	0 <50	110	200	0.003	00 0.150	876 09	10	33	1.2	Н	Н	0 120	Н		090'0> 09	Н	-	_	-	6.2	410	0 <1.0	1.7	92	0	6.2	0 410	0.20
		*********	7.9	300	930	03	- 27	1.1 0.64	0.140	09'0> 0'	21	88	- 9.1	Н	- 17	- 110	1.7	. 81	- 40,060	- 13	+	\dashv	-	330	. 21	<10	<1.0	- 2.4	89	12	410	<2.0
		erec-mr-sc	9'8 (L		_	, V	6000 00	05.0>	90		L		Н	_	Ė			Н	+	110	-	3.74	_	. 0		_		6.9		- 070
		erec-vam-ec	09 4	009	¥	140	92	27	0.062 0.120	13	44	33	3.7	6.6	18	120	1.1	940	40.080	ě.	+	-	-	1.5	<1.0	4.0	41.0	- 41.0	80	7.4 4.8	410	4
		8105-104-00	8	. 0		130		, V	-	1.0	11		. 0			120		. 0	. 09	. 0	+	8	\dashv	1.1	. 0	. 0	. 0	- 01>	- 00		- 01>	- 0.2>
		E105-14M-95	839 839	340	2	13	22	629	37 0.035	2 5.1	20 18	8	5.0	6.3	16	12	1.1	00>	40,080	-	+	-200	-	41.0 1.3	<1.0	<1.0	410		Q	9.3 8.2	41	0
		E105-de3-85	82 &		-		Ė	2 2	0.110 0.009	13.0 6.2	19 39	_									-	27 2	-	1.1 41		_		Ė	i.	7.6 9.7	_	
	r of 8 ke	8145-26241	7.8 8.					9	0280	23 12	1 9				Ė		Ė				-	2 2	-	1.					Ĺ	7.4 7.		
MESAY2	est Come	BIAZ-ADN-DE	8.5 T.	. 002	8	8	92	2 Ψ	0.110 0.2	14.0 2	22 3	31	. 25	6.3	. 91	100	10	. 92	-0000	41.0	2.6	-	-	7.0 5.	<1.0	<1.0	- 01>	22	. 8	16 J.	-10	<2.0
M	Aced in North West Comer of 8 ke	8102-120-52	97					9	0.097 0.	6.9	24 2				Ė		Ė		θ.		+	140		. 22						9.0		
	Pondi	g1.02-d09-92	8.1					52	0.330	9.6	22										-	110		3.6						19		
			8.0	990	16	8	25	3.40	0.420 0.	99	22	30	6.3	3.9	6.9	8	2.3	19	0000	878	-	-	-	6.7	c1.0	<1.0	et0	410	8	22	-40	420
		8105-171-81	8.5					0.87	0 00000	050>	16								Α.		-	931	\dashv	6.4						22		
		8165-mc-85	839					999	2× 0.00 0×	> 050>	19										-	110	-	7.6						916		
		DI-DE-ANN-BE	8.2	360		150	22	933	9900	09.05	17	98	5.2	0.1	17	130	2.1	99	-0.080 -0.080	6.7	1.3	8	40.50	32	<1.0	41.0	1.0	41.0	8	9.9	410	970
		8165-467-85	7.4	380		8	45	0.64	02000+	4.9	17	8	6.9	2 2	22	110	1.6	Н		2.3	3.7	\rightarrow	_		<1.0	41.0	41.0	8	8	13	410	970
		T105-408-EE	7.4	360		8	10	979	_	0'6	53	22	4.1	5.5	=	00	41.0	30	090	410	9.9	840	_	_	_	41.0	410	<10	8	120	410	020
			8.5	960		140	22	975	0.23	5.4	21	4.7	6.3	11	17	160	41.0	710	40,060 40	41.0	41.0	1.1	*0.50	2.0	<1.0	<1.0	41.0	2.0	8	4.1	410	0.25
		Tree-yam-se	8.3	360		120	34	0.01	90.0	7.3	21	59	4.1	6.3	11	8	2.0	09	<0.080	41.0	2.7	160	×0.50	5.6	<1.0	<1.0	1.0	17	93	976	~10	<2.0
			8.3	009		130	530	93	09210	5.5	22	09	7.0	0.3	19	130	3.7	1000	<0.080	2.1	3.5		<0.50	3.1	2.3	<10	1.9	4.1	000	12	180	<2.0
		0202-Ann-12	8.3	370	0000	170	22	70	0.00	6.3	22	37	979	7.6	16	120	<1.0		<0.080	410	410	170	*050	3.1	<1.0	<10	<1.0	1.5	83	-	~10	<2.0
		19-166-2020	7.3	340	8100	110	92	11	9270	91	1.9	77	7.4	7.6	21	140	41.0	92	<0.000	0119	410	110	×0.50	3830	<10	01>	<10	ere	000	13	410	02>
		6102-408-22	8.1	300	=	98	22	0.078	\$100	91	19	77	99	7.3	21	140	_	099	<0.060	41.0	-	100	_	976	<1.0	<1.0	13	<1.0	89	4.8	01>	<2.0
			0.8	380	8100	92	62	97	02000>	979	92	98	52.1	6.7	18	130	41.0	99	0900b	7.2	3.6	8	90.00	133	18	<1.0	1.2	2.7	8	99	410	<2.0
П		esec-unc-sc	8.4		ŀ	Ŀ	ŀ	1.5	0.002	8.0	53						Ŀ	٠			\dashv	08	٠	69			L	ŀ	Ŀ	3.0	٠	٠
		6165-yaM-85	8.1	099	8300	130	82	1/3	02000>	7.2	53	99	979	14.0	10	200	41.0	310	40,060	410	-	-	og 0>	3.7	<10	<1.0	410	410	8	4.8	410	<2.0
П		6102-MY-00	92		ŀ	ŀ	ŀ	20	0.12	8.8	92	ŀ		ŀ	ŀ		ŀ	٠			+	110		=		ŀ	L	ŀ	ŀ	6.1	٠	ŀ
		6105-14M-25	8.2	340	340	130	52	40.050	020.0> 1		30	98	979	7.0	14	130	41.0	30	40.080	41.0	\dashv	-	40.50	1.6	<1.0	<1.0	41.0	41.0	8	=	410	23
П		E105-201-82	7.5		Ŀ	Ŀ		3.0	7000 G	=	98	-	Ŀ	Ц	L	_	L	Ŀ	-		+	8	٠	12	-	-	Ц		Ŀ	9.0		ŀ
	th of Sto	6102-mat-82	8.3		ŀ.	ŀ.	ľ	22	620.0	91	19		Ľ		٠	4	Ц	Н	4		+	8	-	410	4		Ц	ľ	ļ.	=		Ŀ
w	out sured 24 arm Located No rhi of Site	8142-300-91	2 7.8		. 0		. 02	4 6.1	43 0.18	7 23	1 37			. 0	13				. 09.	. 0	-	00	-	12		. 0.	Ц	. 0.		r 82	. 0	
M83 W4	on was 45	**********	7.4 8.2	280	- 240	26	. 30	7 24	8000 9000	11	29 31	59	979 -	- 6.0	- 18	- 97	- 410	. 8	- 40000	- <10	-	190 110	\dashv	4.5 5.9	- <10	- <10	1	- <10	8	6.5 17	- 410	- 40
П	Um amed:	and-120-st	82 7.4			Ė	Ė	13 13	2010 02010>	11 91	55 29	Ė	Ė			-	Н	Н			+	99 180	\dashv	26 4.5		Ė	Н		ŀ.	6.3 6.5	Ė	ľ
		1010-05-31	8.1 8	340	2200	120	. 62	0.2	0.049 +0.0	18	27 28	. 26	4.0	6.4	. 21	110	- 015	. 02	-0000	2.6	+	-	\dashv	30	<1.0	- 01>	- 01>	- 01>	8	24 6	- 04>	- 070
		nanana.	8.3 8.		2	4	- 5	1.85	0.067 0.0	+0.50	24 2		9 -	. 6		-	- 41		9	- 2	\dashv	210	- 0	380		- <	-	-	۷.	22		
		BIOCHT'S	7.9 8.					0.68	00 0200>	42 40.	20 5						Ė				-	310 21		77 30						7.1		
		guez-daw-ez	7.6	009		160	92	0.63	0.000 «O	3.4	21	42	7.2	6.9	17	140	4.2	130	40.080	1.1	-	-	og:0>	2000	2.1	<1.0	3.9	979	8	6.3	410	42.0
		8166-467-85	υx	340		230	30	3.4	0.0000>	09.0>	16	09	4.7	9.0	13	100	<1.0		<0.080 <€	410	_	-	_	4.0	<1.0	+ (/t>	41.0	3.5	8	10	*10	4.00
П		T105-40M-EE	7.5	330		150	20	040	0.048 40	21	92	67	0.5	9.7	. 91	160	Н	00>	40,080 40	×10 ×	+		-	27	1.2	<101>	× 01>	410 3	8	2	· 04>	> 07>
П			8.6	980	ŀ	140	23	0.28	0 0000	13.0	53	35	2.6	15 5	. 91	200	Н	× 00x	0.062 <0	×10 ×	+		050°	28	1.9	<10 <	×10 ×	51	8	2.0	*10 *	> 07>
П		7705-gaM-45	8.4	370	ŀ	120	92	6100	00000+	94.0	22	09	20	0.2	15	130	Н	100	40,080 0	<1.0	\dashv	-	× 050×	11	1.4	<10	410	09	000	6.0	~10	- 070
П			8.2	410		140	88	629	0.110	7.6	31	42	6.0	10	18	150	_		40.080	12	10	-	- 050	99	<1.0	<1.0	2.4	1.3	8	12	686	42.0
П	ľ	ecunog gav.co	0444	Y.	T	Ī.	3	EU	5	ž	3			H	N.		×	. An	3	3	3	1		š	š	3	3	USBN	Ī.		UK(revoked)	NO.
Ш	L				L	Ĺ						L	Ĺ	Ц	Ц	4	Ш			Ц		_	_				Ц		Ĺ	Ė		_
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Assessment Criteria		ecunos sita	UKDWS	UKDWS			UK (Non Sectory)	UK AN BOS			UK AN (Non Sakutoly)						UK AN BOS	UK AN 808	UK AN BOS	UK AN BOS	UK AN BOS	UK AN DOS	UK AN BOS	UK AN BOS	UK AN BOS	UK AN BOS	ı	UK AN BOS	١.			
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	Ĺ	(hotewriteon?)	JG-9	1000	Ĺ	ŀ	220	910			009					_	99	2000	8	4.7	_			98	90	7.2	Ĺ	7.5				
		5	NYA	-	9	01 1/02	-	10.01	20.02	4 0.5	-	9	90 1	1 0.5	4 0.5	10	-	20	90'0	-			90	-	-	-	H	-	8	2	10	2
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П		Decertity and		Bechical Conductivity	uspended Solids	Maderly (Total)	Noride	emoniscel Nitrogen	altro	Profe	Apreso	targe.	tomarr	hgresure	lodium	irdness	rsenio (Dissolved)	ocon (Dissolved)	Codh kry (Dissolved)	Promism (Dissolved)	obber (Dissolved)	n (Dissolved)	rcuy (Dissolved)	riginase (Dissolved)	iclef (Dissolved)	and (Dissolved)	lectury (Dissolved)	ino (Dissolvad)	Promise (feasivales)	otal Organic Carton	ON THE CO.C40	out Of 16 PAN-5s

Horizon

		*********	8.8	009	09-	140	02	971	1900	a	8	69	0.2	0'9	11	091	97	19	40.08	6.3	61	æ	09'0>	œ	0'₽	4.0	13	26	00>	12	410
		7105-Int-65	9.6	0.07		120	01	979	09910	9.5	92	8	2.6	0'9	44	011	1.1	88	00.0b	20	610	130	11.0	11	7.1	<1.0	0'9	68	00>	11	410
		02:02-AnM-12	978	009	£	200	60	090'0>	02000+	5.7	8	99	0.8	0	97	091	871	66	090'0>	6.7	9.2	692	0910+	989	01>	<10	1.0	91	00>	9.2	410
		19-12-2020	8.2	009	9	210	63	0.13	0.008	8.3	8	86	9.0	10	92	270	1.0	z	090'0>	410	970	100	40.50	480	<10	<10	1.3	92	89	3.2	*40
		6102-408-22	6.3	360	7	150	23	44.0	90'0	4.4	13	85	4.1	0.0	16	240	1.6	730	090'0>	410	1.5	160	12	98	<10	<1.0	1.0	88	000	=	<10
			0'8	099	0%	230	93	9739	480	979	25	99	6.5	0'1	12	091	0.1>	99	090 (b	18	1.7	692	09'0>	999	68	<1.0	0.1>	0'9	00>	69	410
		eres-nut-ss	8.2					0.03	0.0076	4.5	28											140		60E'4						979	
		eres-yam-es	8.0	130	98	25	6	2.60	0.16	95'0	6.3	99	3.0	0.8	527	130	1.8	099	090'0>	410	410	110	99.0>	=	0,15	410	0.15	110	000	7.6	410
		e105-1qA-00	9.8				٠	2.20	02000+	3.2	8			٠	٠	٠	٠		-		٠	210	٠	2.4				٠	٠	8.8	٠
		6165-14M-25	8.8	009	6	250	253	973	0.18	12	22	99	6.0	10	92	210	1.3	90	090'0>	410	1.5	819	09'0>	6830	0.1>	<10	0.15	0.15	000	8.8	410
		6166-667-85	7.6					2.70	0.52	4.2	8	-		٠					-		٠	285		999		-		٠		21	
		81-05-mat-82	98			٠	٠	1.80	970	3.6	÷	-		٠	٠	٠	٠		-	٠	٠	22	٠	2.7		-		٠	٠	6.2	٠
		8145-360-91	8.1	٠	٠		٠	4190	0.63	2	2	-	٠	٠	٠	٠	٠	٠			٠	180	٠	829	٠	-	٠	٠	٠	6.7	٠
	۰	8105-voin-80	8.2	009	25	230	42	2.70	0.15	=	99	88	979	12	10	270	1.6	43	090'0>	410	23	385	40.50	999	<10	410	1.5	22	00	13	*10
	Culvert Outfall (Downgrad ent of Ste)	8102-120-52	7.7			٠	٠	0.63	0.13	57	z			٠	٠	٠	٠		-	٠	٠	210	٠	640	٠			٠	٠	6.5	٠
MS WE	on ngrad	6F85-qe8-85	82		٠	٠	٠	0.83	40.020	40.50	18			٠	٠	٠	٠		-	٠	٠	170	٠	200	٠			٠	٠	7.5	٠
-	Outlat (0		8.6	610	≪00	180	99	923	0.11	12	27	22	972	7.7	10	230	1.3	99	090'0>	4.3	12	26	40.50	140	<1.0	<1.0	1.0	4.1	80	æ	~10
	Culvert	8185-101-81	8.2	٠	٠	٠	٠	0.72	0.5	5.6	82	-	٠	٠	٠	٠	٠	٠	٠	٠	٠	260	٠	333	٠	-	٠	٠	٠	31	٠
		8165-mut-95	8.5	٠	٠	٠	٠	0.75	0.16	8 2	98	-	٠	٠	٠	٠	٠	٠		٠	٠	003	٠	440	٠	-	٠	٠	٠	7.2	٠
		DI-DS-VAM-RS	1.8	099		230	3	9.17	0.26	979	8	£	6.3	10	22	230	410	50	090'0>	7.2	1.9	265	05.0>	870	<10	<10	410	972	000	6.9	~10
		0105-rgA-85	7.7			٠		97	0.14	6.9	8								٠	٠		383		330						919	
		81-05-14M-72	7.7			٠		1.8	00000	8.8	8	-	٠							٠		233		270		-	٠			10	
		8165-667-85	7.7	099		180	52	0.33	0.040	4.0	98	8	20	7.5	92	150	1.5	98	090'0>	1.9	1.6	180	1.0	873	<1.0	<1.0	1.2	13	000	21	~10
		Bros-net-or	8.3					0.37	0.002	7.7	33								-			150		433						4.5	
		T105-20/G-E1	8.3					999	62000 0	8.4	50								. 06			480		640			- 0			4.7	
		T105-vois-22	7.9	009 (340	43	4 0.47	0.30	6.1	88	88	19 .	11	20	270	41.0	1233	090 '0> 06	0.15	<1.0	433	09'0> 0	92	0 2.9	0.15	41.0	14	000	976 1	<10
		***********	82	099 (280	42	975	800	61	88	8	12	12	98	052 0	61 1	069 (090'0> 06	410	1.1	160	09.0> 0	920	0.1>	0.1>	10	3.6	000	3.3	<10
		Tres-luc-es	47	670		180	90	40	1 0.22	8.6	23	8	4.4	8.5	92	150	3.6	470	090'0> 09	3.9	3.0	223	09'0> 0'	180	9.1	0 <10	1.3	10 07	000	16	0 <10
		Tres-yaM-as	82	910		230	02 1	97	0.11	09	8	75 63	7.1	11	8	280	2.5	99 (090'0> 09	410	1.7	380	09'0> 0	01'10	0 <10	0 <10	0.1>	7.6	000	11 01	410
L	L	***********	8.6	009		230	99	0.088	0.170	8.8	24	E	929	=	12	230	1.9	026	090'0>	1.7	12		05.0×	1,80	<10	<10	20	09 1	000	10	(Da
		ecunos swa	04W	š		٠	Ν	8	š	š	3	-	٠		š	٠	ž	š	3	35	Ν	Ν	ž	ž	35	ž	35	USEDA	٠	٠	UK (evoled)
iteria		swo	98-59	0092			oz	90'0	970	99	380				002		01	1000	10	92	2,000	oz	0.1	09	08	10	0.1	0005			10
Assessment Criteria			84	84			(Coopute	801			States						108	801	503	501	501	501	108	108	801	801		501			
Ass		ecunos siba	swa xn	OKDWB			UK (Non Batulon)	UKANEOS			UK AN (Non Bakkory)		ľ				UKANEGS	UKANEGS	UKANEGS	UKANEOS	UKANEOS	UKANEOS	UKANEGS	UKANEGS	UKANEGS	UKANEGS	ľ	UKANEOS			
	H	(Josephaleou)) SDB	6-9	1000	H		1 032	910		-	40 009	-					99	2000	99	4.7	10	0001	90'0	98	20	7.5		7.5			Н
H	۲	3	NA 6	Ė	9	0	Ė	100	20.0	9.0	-	9	9.0	0.5	9.0	91	-	20 2	90'0	-	-	20 1	910	-	-	-	-	-	90	2	01
		a po	F	18km	10m	NO CINCO A	ıtılı	l four	l four	ıdıı	ıdu	uðu	ıtın	ıtılı	ıGu	ıGu	LD1	101	101	161	LDH.	101	LD1	LD1	101	101	LDH.	LDH.	LDH.	ıGu	[Eri
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4		97-Nov-2019	562* 550	938	75% 197%	14% 22%	87: 871	18% 152%	68% 171%	42% -149%	0% 17%	17% 7%	27% 23%	20% 11%	19% 21%	15% 7%	71% NC	21% 20%	NC NC	NC NC	40% -96%	26% 19%	11% NC	58% 200%	NC NC	NC NC	27% NC	189% -119%	NC NC	25% 74%	NC NC	NC NC
E		e102-guA-80	15%	938	184% 7		7.8	120%	150%	173% 4	17% (1 19	56%	14% 2	- 559	9% 1	-	-15% -2	NC	67%	82% -4	129%	NC T	2.62	15%	NC	18% -2	12% -1	NC	-73% -2	NC	NC
rizo		6105-nul-82	960	S	S	S	NC	31% -	999	180%	14%	S	NC	NC	2	S	2	NC	NC	NC	õ	-32%	õ	155%	NC	NC	NC	NC	NC	-23%	NC	S
운		610S-Y6M-62	15%	-13%	198%	.75	*4%	7.8%	-143%	139%	3000	39%	17%	75%	%	-	ŀ.	-64%	S	NC	2	500 5	2	%98 9	S	NC	S	NC	S	900 9	S	S
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		14-Dec-2018	960	S	2	S	NC	-15%	43%	%6	%9	S	NC	NC	2	S	2	NC	NC	NC	2	39%	2	-124%	NC	NC	NC	NC	NC	10%	NC	S
	RPD	81-02-12O-92	095495	NC -4%	NC 1499	NC -7%	NC 7%	34% 67%	118% -88%	46% 19%	19% 34%	NC -7%	NC -14%	NC -5%	NC -14%	NC -3%		NC 21%	NC NC	NC NC	NC -54%	30% -9%	NC NC	73% -17%	NC NC	NC NC	NC 10%	NC -75%	NC NC	17% 6%	NC NC	NC NC
		8102-de5-92	15%		NC	NC	NC	34% 3	1: 8223	96% 4	13% 1	NC	NC	NC I	N N			NC	NC	NC I	S S	.34% 3	S S	.25%	NC	NC	NC	NC	NC	-6% 1	NC I	NC NC
		8105-guA-61	158	27%		26%	19%	-80%	158% -1	%69	560	46%	-10%	49%	37%		-79%	-2%	NC	-29%	92.29	388	2	136%	NC	NC	NC	NC	NC	%6	NC	SC
		8105-lut-81	5 -2%		2		NC	104%	108%	S S	40%	S	NC	NC	8	2	-	NC	NC	NC	õ	33%	õ	4 193%	NC	NC	_	NC	_	989 9	NC	S
		8102-YaM-82 8102-nut-82	-8% -12%	11% NC	NC NC	6% NC	-8% NC	71% 21%	22% NC	149% 157%	21% 42%	7% NC	32% NC	9% NC	009 NC	7% NC	-	81% NC	NC NC	144% NC	-26% NC	27% 95%	NC NC	194% 161%	71% NC	NC NC	74% NC	26% NC	NC NC	19% 30%	NC NC	NC NC
		26-Feb-2018	- 939	-11% 4	NC		40% a	137% 7:	NC 22	163% 14	13% 21	53% 7	.4% 32	44% 9	51% 0			-27% 81	NC N	-79%	2 3311	43% 27	NC NC	-60% 19	NC 7	NC N	NC 74	149% 12	NC N	11% 18	NC	NC
		Tros-von-ss	- 52	38	9	4155	-109%	-32%	-34%	43%	. 558	988	34%	922%	48%	560%	N N	NC .	NC	NC .	-126% -1	-103%	9	- 909	-113%	N N	NC	NC -	NC	16	NC	2
		7102-guA-91	-1%	558	NC	%	45%	95%	-168%	83%	%6	14%	-15%	31%	939	22%	S	-188	5.2	NC	38.2	19%	S	178%	%29	NC	NC	%89	NC	34%	NC	NC
		710S-Y6M-PS	944 9	. 6%	S.	950	%6	%Z9 %	9.75	63%	938 9	328	8 20%	43%	34%			900%	NC	S NC	.12%	.25%	S 	% 65%	33%	NC	900 9	% 95X	NC .	93%	NC NC	NC.
	\vdash	05:05-do-3-et	7.8 -1%	330 25%	NC NC	27.	90 82	0.19 -16%	<0.020 -87%	11 32%	16 34%	30 82%	6.9 -29%	6.6 19%	-388	130 14%	<1.0 -115%	23 0%	40.080 NC	<1.0 -55%	2.8 -111%	91 NC	0.50 NC	3.5 179%	<1.0 -79%	<1.0 NC	<1.0 23%	13 -104%	<20 NC	6.0 0%	<10 -25%	42.0 NC
		6105-vov-72	8.1	300	050		200	0.093 0	0.150 <0	80 05	_	37	7.2	9 09	- 41	120	21 <	670	0.080 40	<10	15	130	18	5.2	<10	<1.0	1.7	36	÷	62 (<10 <	<2.0
		6102-guA-90	67	360	330	93	27	0.64	0.140	97:00	21	8	9.1	5.8	- 11	110	1.7	19	-00000	13	41.0	420	99.99	300	2.1	<1.0	<1.0	2.4	88	12	<10	<2.0
		610S-YaM-62	8.0 8.4	. 009	46 .	140	. 92	1.4 1.1	0.120 0.039	1.3 <0.50	17 20	37	3.7	6.4	- 12	. 021	- 11	540 .	- 080'0	- 0.1>	- 015	011	-0.50	1.5 7.4	- 0.1>	- 0.1>	- 0.1>	- 0.1>	- 02>	4.8 4.9	- 00 >	- 070
		6105-1qA-05	8.7					1.5	0.082 0.	. 1.9	- 41						,	9 -	Φ.		•	06		. 171						7 1/2		
		610S-16M-8S	8.8	340		130	27	0.29	500.0 78	1.9	18	88	6.8	6.3	15			000	40.080	<1.0	1.5	200	40.50	0 1.3	<1.0	<1.0	<1.0	_	_	8.2	<10	<2.0
		e10S-nat-e5	8.2 8.9					4.0 2.5	0.110 0.037	13.0 6.2	19 20											27 <20		1.1 <1.0						7.6 9.3		
		14-Dec-2018	7.8					6.9	0.280	2	98								- 00			98		5.1			- 0			7.4		
	MSVZ	81-02-12O-22	7.4 8.5	. 280	. 98	8	. 38	12 1.2	0.110 760.0	69 14.0	24 22	. 34	. 52	. 63	. 2	. 10	. 10	. 26	- <0.080	- <1.0	. 26	120	- 40.50	62 7.0	- <10	- <10	- <1.0	. 22	. <20	5.5 16	- <10	. <2.0
		8102-da9-92	8.1					6.0	0.330	9.9	22											110		3.6						6.7		
		8102-lut-81 8102-guA-61	0.8	. 260	16	. 85	24	7 0.42	20 0.420	40.50 8.8	16 27	. 8	6.3	3.9	. 8.9	8	2.3	41	· <0.080	. 4.8	- 18	150 38	- 40.50	1.9 \$	- <1.0	- <1.0	- <1.0	- <1.0	. <20	22 22	- <10	<20
		8105-nut-82	8.9 8.5					0.55 0.57	40.020 40.020	40.50	19 1										-	110 15	-	7.6 6.4						9.6 2		
		810S-YsM-62	8.2	360		95	22	00.30	> 990'0	40.50	- 41	39	2.3	8.1	- 44	130	2.1	99	080.0>	6.7	1.3	96	90.50	325	0.1>	0.1>	1.8	0.1>	00>	4.4	<10	<2.0
		S6-Feb-2018	7.4	380		8	48	0.64	40.020	4.9	- 11	18	4.9	5.5	8	110	1.5	18	080.0> 0	2.3	3.7	130	9.9	9.1	<1.0	0.1>	0.1>	24	8	- 11	<10	<2.0
		7102-guA-81 7102-vov-25	8.5 7.4	360		MO 98	22 81	0.24 0.55	0.23 0.081	5.4 9.0	21 23	47 27	6.3 4.1	11 5.5	11 11	950 90	c1.0 <1.0	710 <20	0.080 <0.080	<10 <1.0	<10 4.4	71 840	0.50 0.50	20 45	<1.0 4.3	<1.0 <1.0	<1.0 <1.0	2.8 <1.0	<20 <20	4.1 13	<10 <10	<20 <20
		7102-YsM-42	8.3	98		120	24	0.01	0.05	7.3	21	83	4.1	5.3	11	8	2.0 <	. 09	40.080 40	<1.0	2.7	180	40.50 △	9'9	< 10 <	< 10 <	1.0	17	· 00>	9.4	<10 <	<20
		9102-guA-11	8.3	400		130	53	0.3	0.280	979	22	40	8.7	8.3	19	130	3.7	1000	40.080	2.1	3.5		40.50	3.1	2.3	0.1>	1.9	4.1	Ø	12	180	<2.0
		19-E0P-5050	7.3	340	8100	110	200	1.4	0.26	1.6	19	42	7.4	7.4	21	140	<1.0	28	080.0>	<1.0	41.0	110	90.50	3600	<1.0	<1.0	<1.0	3.3	8	13	<10	<2.0
		6102-guA-80 6102-voV-72	8.0 8.1	300	8100 11	150 86	22 62	0.2 0.078	<0.020 0.074	6.8 15	19	35 44	1 5.5	7 7.3	18 14	120 140	<10 <1.0	44 460	40.080 40.080	7.2 <1.0	24 <1.0	90 100	40.50 2.0	130 9.4	1.8 <1.0	<1.0 <1.0	12 1.3	27 <1.0	025	5.6 4.8	<10 <10	<20 <20
		6105-nut-2019	8.4 8					1.5 0.	0.022 <0	9.3 6	23 2		. 5.1	- 6.7			v .		9	- 2		80 08	8	1 69	- 4		- 4	. 2		3.9 5		
		6102-YsM-62	8.1	440	8300	130	22	1.5	<0.020 0	7.2	23	8	4.4	14.0	19	200	0.1>	310	-0.080	<1.0	0.15	99	40.50	3.7	<1.0	<1.0	<1.0	<1.0	0Z>	4.8	<10	<2.0
		610S-1qA-05	9.2					2.0	0.12	4.8	22											110		11						6.1		
		610S-16M-8S	8.2	340	340	130	23	<0.050	020.020	1	20	39	4.8	0.7	14	130	41.0	20	40.080	<1.0	1.5	160	40.50	1.6	<1.0	<1.0	<1.0	<1.0	0Z>	11	<10	2.3
		28-Feb-2019	8.3 7.5		•			22 3.0	0.029 0.024	14 11	19 36											<20 <20		<1.0 1.2						11 9.4		H
		14-Dec-2018	7.8 8.					5.1 2	0.18 0.0	23	37 1										<u> </u>	9	<u> </u>	1.2 <1						8.2 1		d
	ų	81-02-VOV-05	8.2	280	240	8	28	2.4	0.043	11	31	8	4.5	0.0	13	26	0.1>	32	-0.080	<1.0	1.5	110	40.50	6.9	<1.0	<1.0	1.1	<1.0	0Z>	- 11	<10	<2.0
	MSM	81-02-120-92	7.4					1.7	920.0	11	53											180		4.5						6.5		
		8102-qe8-82	8.2					1.1	40.020	16	52			٠								98	•	2.6						6.3	٠	
ZW2		8102-guA-E1	3 81	340	2200	. 420	. 39	180 02	67 0.049	80 88	12 1	. 32	- 48	6.4	t	. 110	- <1.0	. 40	- <0.080	. 26	× 10	25 0	40.80	0E 0	- <10	<10	- <10	. <10		1 34	<10	<20
W1 and M		810S-nut-85	7.9 8.3					0.68 1.8	290'0 020'0>	4.2 <0.50	29 24											310 210		71 380						7.1 21		d
amples M3		8102-YeM-62	97	400		160	52	0.63	0.070	3.4	21	42	7.2	8.9	17	140	4.2	130	40.080	1.1	0.15	130	40.50	2000	2.1	0.1>	3.9	4.4	8	6.3	<10	<2.0
o Water S		26-Feb-2018	0'2	340		230	90	3.4	020.0>	40.50	15	8	4.7	9.8	13	180	<1.0	42	080'0>	<1.0	0.15	978	40.50	6.5	0.1>	0.1>	0.1>	3.5	00>	61	<10	<2.0
een Surfac		T105-von-25	2.5	370		150	24	0.40	810'0	14	22	49	5.8	2.6	92	160	<10	OZ>	40.080	<1.0	41.0	230	9.50	27	12	<1.0	<1.0	<1.0	0Z>	14	<10	<2.0
en ce betw		7105-guA-81	1 8.4	0 300	٠	0 140	3 23	19 0.26	02000- 02	0 13.0	23	25	5.4	2 12	2	0 200	0.1>	002 0	80 0.082	0 <10	1.3	98 0	50 40.50	38	4 1.9	0.1> 0.	0.1>	5.1	00> 0	9 2.9	0 <10	0 <20
rage Differ		9102-guA-11 7102-yaM-42	8.2 8.4	410 370		140 120	29 26	0.29 0.019	110 <0.020	7.6 14.0	31 22	42 40	5.8 5.0	10 8.2	18 15	150 130	<1.0 <1.0	1000	<0.080 <0.080	1.2 <1.0	1.0 2.4	- 140	50 4050	11	<1.0 1.4	0.1> 0.1	2.4 <1.0	1.3 48	00>	12 9.9	140 <10	20 20
n of Percer	۲	3105-01-01	N/A 8.	+	10	10	1 2	100	0.110	0.5	1 3	4	9 970	0.5	11 970	15 16	-	20 10	900	1 1	-	- 02	0.5 40.50	-	-	1 <1.0	1 2	1 1	00	2 1:	10 14	2 <
Comparisor		Units		mayari	lgm	mg CaCO ₃ A	цбш	mg1	цбш	m91	lgm	I/Su	цбш	mg1	lg m	1,6m	lou.	leu	leu leu	lou lou	log d	leu	log d	leu	1,64	leu	leu leu	leu	leu leu	lgm	lou lou	leu
Take Dis Entering Exten Farm Landils - Comparition of Percentings Officence thereto Water Sumples MSWT and MSWE	Sample Type	Determinand	-	Section Conductivity	uspended Sdids	Wealinity (Total) mg	Chloride	Ammoniacal Nitrogen	Nitrite	Mitrate	Sulphate	Saldum	Potassium	Magnesium	Sodium	lardness	Arsentic (Dissolved)	loron (Dissolved)	admium (Dissolved)	Chronium (Dissdved)	Copper (Dissolved)	ran (Dissolved)	Marcury (Dissolved)	Manganese (Dissolved)	Wickel (Dissdwed)	ead (Dissolved)	elenium (Dissolved)	Zinc (Dissolved)	(tranium (Hexavalent)	dal Organic Carbon	dal TPH >OS-C40	rdal Of 16 PAH's
	. 69		۵,	. ω	- 40	. <	U	. <		. 2	40	. 0	a.	~	. 00	, £	Α.	. 80	ں.	υ.	0	-	<	<	2	_	- 00	N	υ.	+	-	_

produced based on disapprovisionity QCE, Hoston has not been provided with object information by regarding the produced based on the second produced by the pr



Sample Type			L			-	MSW4 - Downstream Culvert	ownstream	m Culvert				H				MSW5		Upstream Culver	Į.									RPD				
Deterninand	Units	LRL	810S-guA-£1	8102-qe8-92	810S-voN-08	14-Dec-2018	6102-nsL-62	28-Feb-2019	29-May-2019	6102-nut-32	610S-guA-80	6102-voN-72	19-Feb-2020	810S-guA-£1	8102-gep-2018	810S-VON-08	14-Dec-2018 29-Jan-2019	28-Feb-2019	29-May-2019	6102-nuL-32	610S-guA-90	610S-voN-72	19-Feb-2020	8102-guA-£1	8102-qe2-92	8102-voN-08	14-Dec-2018	6102-nsL-62	28-Feb-2019	29-May-2019 6102-nut-32	610S-guA-90	610S-VON-7S	19-Feb-2020
н.		N/A	8.4	8.2	8.2	8.1	8.5	7.6	8.0	8.2	8.0	8.3	8.2	8.3	8.0 7	7.5 7.	7.9 8.4	1.5	8.2	8.4	8.2	8.2	8.0	41%	2%	%6	. 5%	. %1	-5	.2% -2	-2%	1%	2%
Electrical Conductivity	µS/cm	1	510		200				130		920	350	009	430	- 4	- 480			400	٠	320	320	420	41%	NC	4%	NC	NC	NC -10	02% NC	C 44%	%6	35%
Suspended Solids	l/Bu	2	<5.0		24				25		<5.0	7		<5.0	-	- 5		Ľ	520	·	6	<5.0	41	S	NC NC	-19%	NC NC	NC	NC -14	NC NC	C -57%	33%	-1573
Alkalinity (Total)	mg CaCO ₃ /I	10	190		230				22		230	150	210	140	-	- 091	-		130	·	130	120	110	30%	NC	45%	NC	NC	NC -7	-78% NC	C 26%	22%	63%
Chloride	l/6m	-	45		42				6		55	23	43	48	ļ.	- 47		_	32		36	31	43	%9-	NC NC	-11%	NC	NC	NC -11	19% NC	C 42%	-30%	%0
Ammoniacal Nitrogen	l/Bu	0.01	0.23	0.93	2.70	4.90	1.60	2.70	2.60	0.93	0.26	0.17	0.13	0.41	.20 2.	30	4.40 1.40	0 4.40	1.20	0.78	0.44	0.58	<0.050	-26%	-25%	16%	11% 1	13% -4	-48% 74	74% 18	-51%	-109%	88%
Vitrite	l/Bu	0.02	0.11	<0.020	0.15	0.63	0.4	0.52	0.16	920.0	0.57	0.08	0.024 0	0.061 <0	<0.020 0.0	0.053 0.074	174 0.36	6 0.38	8.0	0.024	0.87	0.082	<0.020	21%	NC S	1 %96	158%	11% 3	31% -13	-133% 10	104% -42%	-5%	18%
Vitrate	l/gm	0.5	12	<0.50	11	15	3.6	4.2	96:0	4.5	4.6	4.4	8.3	12 1	1.3	7 8.	8.6 6.2	2.6	3.4	4.7	6.1	3.6	<0.50	%0	7 %68-	44% €	- 64%	-53% 4	47% -11	-111% -4%	% -28%	20%	177%
Sulphate	l/Bu	-	27	25	46	52	17	26	6.3	24	24	17	32	30	26 2	27 3	33 19	16	24	21	19	20	22	-11%	-4%	52% 4	%5%	-11%	48% -11	13%	% 23%	-16%	37%
Calcium	l/Bu	2	78		68				45		09	82	92	49	ř.	. 08		Ľ	43	·	37	43	48	46%	NC	11%	NC NC	NC	NC S	2% NC	C 47%	62%	63%
otassium	l/gm	0.5	4.5		6.4				3.0		4.3	4.1	9.9	2.8	-	7.0			2.5	٠	1.8	1.6	2.4	47%	NC	%6-	NC	NC	NC 18	18% NC	C 82%	88%	93%
Magnesium	l/gm	0.5	7.7		12				5.0		7.8	8.0	10	4.8	-	10		'	4.7		4.3	2.8	6.3	46%	SC	46%	NC NC	NC	NC O	9% NC	C 28%	%96	45%
Sodium	l/gm	0.5	19		25				23		27	15	28	17	-	- 26	-	<u> </u>	19	Ŀ	17	19	26	11%	NC	-4%	NC	NC	NC 18	19% NC	C 45%	-24%	7%
Hardness	l/Bu	15	230		270				130		180	240	270	140	- 2	240		'	130	٠	110	120	150	49%	NC	12%	NC NC	NC	NC O	0% NC	C 48%	%49	21%
Arsenic (Dissolved)	l/6rl	1	1.3	-	1.6				1.8		<1.0	1.6	1.0	2.6	- 4	4.2		-	1.8		2.6	3.5	1.3	%29-	NC	%06-	NC	NC 1	NC 0	0% NC	C -89%	-75%	-26%
3oron (Dissolved)	l/6rl	20	46	-	43				280		44	730	34	51	- 3	320			470		35	740	260	-10%	NC -1	153%	NC	NC 1	NC 2'	21% NC	C 23%	-1%	-177%
Cadmium (Dissolved)	l/6rl	0.08	<0.080		<0.080				<0.080		<0.080	<0.080	<0.080	<0.080	- 0>	-0.080			<0.080	- (<0.080	<0.080	<0.080	NC	NC	NC	NC	NC 1	NC N	NC NC	C NC	NC	NC
Chromium (Dissolved)	l/6rl	1	4.3		<1.0		٠		<1.0		35	<1.0	<1.0	6.3	- 2	- 2:2	_	_	2.5	٠	38	<1.0	<1.0	-38%	NC -1	138%	NC	NC	NC -8	86% NC	C -11%	NC	NC
Copper (Dissolved)	l/6rl	1	1.2		2.3				<1.0		1.7	1.5	4.0	1.9		- 36	-		<1.0		3.7	1.6	3.7	-45%	NC -1	176%	NC	NC 1	NC N	NC NC	C -74%	-6%	8%
ron (Dissolved)	l/6rl	20	92	170	380	180	27	280	110	140	260	160	190	72 1	130 6	650 10	100 76	<20	86	92	240	180	67	24%	- 27%	-52% €	9- %29	95% 13	173% 12	38%	%8 %	-12%	%96
Mercury (Dissolved)	l/6rl	0.5	<0.50		<0.50	,			<0.50	,	<0.50	1.2	<0.50	<0.50	- 0>	. 50		•	<0.50	•	<0.50	1.3	<0.50	NC	NC	NC	NC	NC 1	NC N	NC NC	C NC	-8%	NC
Manganese (Dissolved)	l/6rl	1	140	700	009	520	2.7	200	11	1300	800	92	480	25	23 1	150 5.	5.3 160	4.7	61	30	18	19	15	139%	187% 1	120%) - %961	183% 18	96% -13	139% 19	191% 191%	133%	188%
Vickel (Dissolved)	l/6rl	-	<1.0		<1.0				<1.0		3.9	<1.0	<1.0	<1.0	- 2	2.4	-		<1.0	٠	4.3	<1.0	<1.0	NC	NC	-82%	NC	NC	NC	NC NC	C -10%	NC	NC
-ead (Dissolved)	l/6rl	1	<1.0		<1.0				0.1>		<1.0	<1.0	- 0.1>	<1.0	,	2.5			<1.0		<1.0	<1.0	<1.0	NC	NC	%98-	NC	NC	NC	NC NC	C	NC	NC
Selenium (Dissolved)	l/6rl	1	1.0	-	1.5				<1.0		<1.0	1.0	1.3	1.2	-	1.3			<1.0		<1.0	<1.0	<1.0	-18%	NC ,	14%	NC	NC 1	NC N	NC NC	C NC	%0	26%
Zinc (Dissolved)	l/6rl	-	4.1		5.5				110		4.8	20	20	9.2	<u> </u>	- 82			1400	٠	170	26	22	%44-	NC -1	174%	NC	NC	NC -17	171% NC	C -1899	-26%	%96-
Chromium (Hexavalent)	l/6rl	20	<20		<20				<20		<20	<20	<20	<20	·	<20			<20		<20	<20	<20	NC	NC	NC	NC	NC	NC	NC NC	C	NC	NC
Total Organic Carbon	l/gm	2	32	7.5	17	6.7	6.2	21	7.5	4.6	5.9	11	3.2	24 8	9.0	16 8.	.5 4.1	19	13	7.4	8.5	6.4	11	29%	-18%	%9	-24% 4	41% 1	2	54% -47%	-36%	23%	-110%
Total TPH >C6-C40	l/6rl	10	<10		<10				<10		<10	<10	<10	<10		-10			<10		<10	<10	<10	NC	NC	NC	NC	NC 1	NC N	NC NC	C NC	NC	NC
Total Of 16 PAH's	l/6rl	2	<2.0		<2.0				<2.0		<2.0	<2.0	<2.0	<2.0	٠	<2.0			<2.0	٠	<2.0	<2.0	<2.0	NC	NC	NC	NC	NC	NC	NC NC	C NC	NC	NC

Tables produced based on data provided by GCE. Horizon has not been provided with original laboratory certificates for inspection.

Positive value shows an increase in concentration in pond sample compared with upstream sample from stream (conversely negative value shows reduction in concentration in pond water sample)

NC - Not Calculated

Where are concentration is above the intornatory reporting limit (LRL) and concentration is below, the LRL has been used to calculate the percentage difference.

Where both concentrations are below the laboratory reporting limit (LRL) or not reported the percentage difference has not been calculated.

Denotes increase in contaminant concentration in pond sample compared with upstream sample.

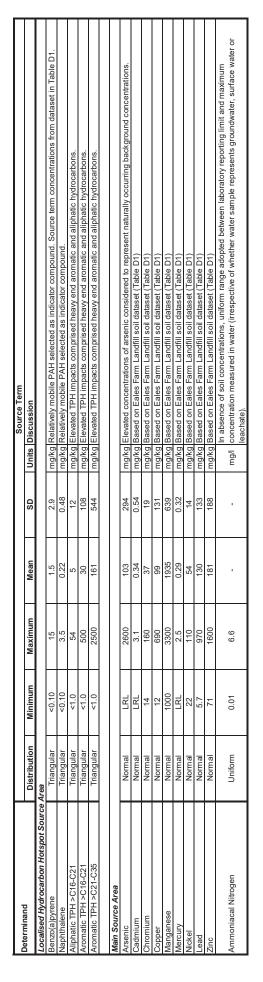
Denotes percentage difference greater than -100%.

Denotes percentage difference greater than 100%.



Existing Eales Farm Landfill - Source Term For Purposes of Hydrogeological Assessment

Horizon



Notes

SD - Standard Distribution

LRL - Laboratory Reporting Limit (Element Laboratory at time of report issue)

EQS - Environmental Quality Standard

DWS - Drinking Water Standard

W C = Dillinillig Water Ot

UK - United Kingdom AA - Annual Average

MRV - Environment Agency Minimum Reporting Value

Table D7 Proposed Eales Farm Landfill Extension - Source Term For Purposes of Hydrogeological Assessment



						S	Source Term			Adopted EAL	EAL
Determinand	Indicator COPC	Hazardous Pollutant?	MRV (mg/l)	Distribution	Minimum	Maximum	Units Rationale	9	Concentration	Units	Rationale
Sum of BTEX (Benzene)	Not considered as part of the assessment. BTEX compounds not detected above the LRL in any soil samples within the existing Eales Farm Waste Mass.	Hazardous substance	0.001								
PAH Sum of 17 (Benzo(a)pyrene)	Modelled as berzo(a)pyrene, assuming 50% of the PAHs comprise berzo(a)pyrene and 50% naphthalene. Note that the maximum construction of berzo(a)pyrene detected in the Eales Farm Waste Mass is 12 mg/kg.	Hazardous substance		Uniform	0.04	20	ng/kg Range b	mg/kg Range between LRL (Element Laboratory) and inert WAC Li	0.00005	l/gm	UK AA EQS
PAH Sum of 17 (Naphthalene)	Modelled as naphthalene, assuming 50% of the PAHs comprise beraci(a)pyrene and 50% taphthalene. Note that the raximum concentration of naphthalene detected in the Fales Farm Waste Mass is 2 morko.	Non-hazardous pollutant		Uniform	0.04	20	ng/kg Range b	mg/kg Range between LRL (Element Laboratory) and inert WAC Li	0.0024	l/bu	JK AA EQS
Mineral Oil (TPH Aliphatic C5-C6)	Modelled as TPH Aliphatic C5-C6.	Hazardous substance (Mineral Oil)		Uniform	0.1	200	ng/kg Range b	mg/kg Range between LRL (Element Laboratory) and inert WAC Li	15.00	mg/l	WHO DWS
		•				•		•			
Arsenic		Hazardous substance		Uniform	0.0025	0.05	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.05	mg/l	UK AA EQS
Barium		-		Uniform	0.003	2	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.003	mg/l	-RL (Element Laboratory)
Cadmium		Non-hazardous pollutant	0.0001	Uniform	0.0005	0.004	mg/I Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.005	mg/l	UK AA EQS
Chromium		Hazardous substance (Chromium VI)		Uniform	0.0015	0.05	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.0047	mg/l	JK AA EQS for Chromium III
Copper		Non-hazardous pollutant		Uniform	0.007	0.2	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.01	l/gm	JK AA EQS
Mercury		Hazardous substance	0.00001	Uniform	0.001	0.001	mg/l Set at ine	Set at inert WAC Limit (consistent with LRL).	0.00005	mg/l	UK AA EQS
Molybdenum		Non-hazardous pollutant (Moybdate Ion)		Uniform	0.002	0.05	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.002	l/gm	.RL (Element Laboratory)
Nickel		Non-hazardous pollutant (Nickel III)		Uniform	0.002	0.04	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.02	l/gm	UK AA EQS
Lead		Hazardous substance		Uniform	0.005	0.05	mg/l Range b	mg/l Range between LRL (Element Laboratory) and inert WAC Li	0.0072	l/gm	UK AA EQS
Antimony		Non-hazardous pollutant		Uniform	0.002	900'0	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.002	l/bu	.RL (Element Laboratory)
Selenium		Non-hazardous pollutant		Uniform	0.003	0.01	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.003	l/bu	.RL (Element Laboratory)
Zinc		Non-hazardous pollutant		Uniform	0.003	0.4	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.075	l/gm	UK AA EQS
Chloride		Non-hazardous pollutant (Chlorine)		Uniform	0.3	80	mg/I Range b	Range between LRL (Element Laboratory) and inert WAC Li	250	l/gm	UK AA EQS
Fluoride		-		Uniform	0.3	1	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.3	mg/l	-RL (Element Laboratory)
Sulphate as SO₄		-		Uniform	9.0	100	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	400	l/bu	UK AA EQS
Phenol		Non-hazardous pollutant		Uniform	0.01	0.1	mg/l Range b	Range between LRL (Element Laboratory) and inert WAC Li	0.03	l/bu	UK AA EQS
Manganese				Uniform	See Table D6		mg/kg Landfill model	Source concentrations assumed consistent with Eales Farm Landfill model.	0.03	l/gm	UK AA EQS
Armoniacal Nitrogen				Uniform	0.01	6.6	In absen between mg/l concentr water sa	In absence of soil concentrations, uniform range adopted wheen laboratory reporting limit and maximum concentration measured in water (frrespective of whether water sample represents groundwater, surface water or	9:0	l/gm	UK AA EQS
Notes							leachate)				

Notes
COPC - Contaminant of Potential Concern
COPC - Contaminant of Potential Concern
LRL - Laboratory Reporting Unit (Element Laboratory at time of report issue)
EOS - Environmental Quality Standard
DWS - Drinking Water Standard
UK - United Kingdom
AA - Amusal Average
MRV - Environment Agercy Minimum Reporting Value



Table DBa Bristing Eales R

-		SD Rationale	Assumed no decay of contaminant.	Assumed no decay of contaminant.	Assumed no decay of contaminant.	Assumed to decay of confaminant.	Assumed no decay of contaminant.	Assumed no decay of contaminant.	Assumed no decay of contaminant.	Assumed no decay of contaminant.	Assumed to decay of contaminant.	poweroup ou pour resty
100	(86)	Max SD (Years)										
	Half Life (Days)	Single Value / Most Like by (Years)	9.90E+11	9.90E+11	9.90E+11	9.90E+11	9.90E+11	9.90E+11	9.90E+11	9.90E+11	9.90E+11	
		Min (Years)										
		uoi tu din di di	9f0ug	Single	aguis	ajõug.	Single	afőug	afõus	afõug	ajõug.	
		Rationale	CONSIM	CONSIM	CONSIM	MSNOO	CONSIM	Value adopted for Mercury Choride, assumed to be the most soluble and likely of mercury compounds	CONSIM	Value adopted for Load Sulphate, assumed to be the most soluble and likely of lead compounds.	MSNOO	
	bility	SD	44100	65100	16700	28000	88	657	17300	0.00443	00909	
	faximum Solubility	, Max (ml/g)										
	Ma	Single Value Most Likely (ml/d)	4.41E+05	6.51E+05	167E+05	293E+05	088	55.7	173E+05	0.0443	806E+05	
		n Min (m1/g)										
		Distribution	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	
		SD Rationale										
	stant	Max (unitiess)										
	Henrys Law Constant	Single Value / Most Likely (ur (unifiess)										
		Min Si (unitless)										
		Distribution										
	(30)	SD Rationale B										
	oefficient (P	Max (ml/g)										
	Soil Water Partition Coefficient (Koc)	Single Value / Most Likely (ml/d)										
	Solly	on (ml/g)	٠							٠		
		Distribution	·			٠					٠	
	Soil Water Partition Coefficient (Kd)	Rationale	CONSIM	CONSTIL Maximum value for loam of unspecified pH.	CONSTAL Maximum value per loam of unspecified pH.	CONSIM. High values of Kd from unspedited material with FOC=11% not considered sufficiently conservative hence excluded.	CONSM. Mrimum, expected and maximum for a sand with unspiricitied pH	CONSIM. High values of Kd from glacial III unspedition material not considered auficiently conservative hence excluded.	CONSTAL High maximum values not considered sufficiently conservative.	CONSIM. Given extreme range of values normal distribution cores ervatively adopted around most likely experimental value.	CONSM. High values of Kd from unspedited material with FOC=11% not considered sufficiently conservative hence excluded.	CONSIM Miriman and maximum for a loam with
	Partition Co	SD		247				348	3025	8		
	Soil Water	sine / Max cely (ml/g)	249.6	086		286	810	1500	8100		420	
		Single Value / Most Likely (mi/d)	117	340	38	121	49	450	90	435	98	
		tion (m l/g)	br 29	0.0 len		lar 40	Bar 3	mal 0.1	6:0 lan		1.1	
	L	rm Dis tribution	Triangular	Logrormal	Single	Triangular	Triangular	Logrormal	Logrormal	Normal	Triangular	
		Chemical Form	horganic	horganic	horganic	horganic	horganic	horganic	horganic	horganio	horganic	
		De te rminan d	Ansenio	Qudmium	Oromium	Opper	Marganese	Mecury	Noticel	Lead	Zno	

Note s: SD - Sandard Deviation

Max - Maximum Carloson Max - Maximum Value Mn - Mrimum Value

CDNSM-Parameter value obtained from CDNSM-detabate.
CLARE: Parameter value obtained from CLARE (2017) Petroleum Hydrocarbora in Grounds alter: Guisterce on Assessing Petroleum Hydrocarbora Risk Assessment Methodologie

nta Working Group (1998) - Parameter obtained from Boal Petroleann Hydrocarbon Calteria Working Group (1996) Series. Demonstrate unds challeder from the and all (1901) Beauthoode of Eugenemental Percentation Dates.





Г		г	Г			
	Rationale	Howard et al, 1991	- CONSIM	Assumed no decay of contaminant.	Assumed no decay of contaminant.	Assumed no decay of contaminant.
	SD	0.3				
Days)	Max (Years)		2.74	٠	٠	٠
Half Life (Days)	Single Value / Most Likely (Years)	2.9		9.9E+11	9.9E+11	9.9E+11
	Min (Years)		0.55			
	Distribution	Normal	Uniform	Single	Single	Single
	Rationale	SR7		0.0000003 CL:AIRE	CL:AIRE	0.00066 CL:AIRE
bility	SD	3.80E-04	3.29	0.0000003	0.065	0.00066
Maximum Solubility	Max (mVg)					
Max	Single Value / Most Likely (mVg)	3.80E-03	32.9	3.00E-06	6.50E-01	6.60E-03
	Min (mVg)			٠	٠	
	Distribution	Normal	Normal	Normal	Normal	Normal
	Rationale	CONSIM	CONSIM			
	SD	3.43E-06 C	4.90E-03 CONSIM	4.90E+02	1.30E-03	6.70E-05
Law Constant	(ssaµun) Wax					
Henrys Law	Single Value / Most Likely (unitless)	3.43E-05	4.90E-02	4.90E+03	1.30E-02	6.70E-04
	Min (unitless)					
	Distribution	Normal	Normal	Normal	Normal	Normal
	Rationale	CONSIM	CONSIM	CL:AIRE	CL:AIRE	CL:AIRE
(Koc)	SD	9.16E-06 CONSIM	1.29E+02 CONSIM	6.30E+07	1.60E+03 CL:AIRE	1.30E+04
1 Coefficient	/ Max (mVg)					
Soil Water Partition Coefficient (Koc)	Single Value / Most Likely (ml/g)	9.16E-05	1.29E+03	6.30E+08 - 6.30E+07 CL:AIRE	1.60E+04	1,30E+05 - 1,30E+04 CL:AIRE
S	n (mVg)					
	Distribution	Normal	Normal	Normal	Normal	Normal
	Chemical Form	Organic	Organic	Organic	Organic	Organic
	Determinand	Benzo(a)pyrene	Naphthalene	Aliphatic TPH >C16-C21	Aromatic TPH >C16-C21	Aromatic TPH >C21-C35

Notes:

By Standard Deviation

Note: Allowance Notes

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iles Farm Landfill	Il Extension - Mo.	namer Loo Proposed Eales Farm Landfill Extension - Model Assumptions (Source Term Chemistry)	(Source Terr	m Chemistry)	_																				Horizon
				Soil	Water Partit	Soil Water Partition Coefficient (Kd)	Soil	Soil Water Partition Coefficient (Koc)	efficient (Koc.			Henrys L	Henrys Law Constant					Maxin	Maximum Solubility				Haff	Half Life (Days)	
	Chemical Form	Distribution	Min Sing (mVg) Mo	Single Value / Most Likely (Max (m1/g)	SD Rationale	Distribution (mVg)	Single Value / Most Likely	Max S (mVg)	SD Rationale	uoitngrasiQ	Min Single Value Most Likely (unitless)	Max y (unitiess)	OS (Rationale	Distribution	Min Sir (ml/g) M	Single Value / Most Likely	Max (ml/g)	SD Rationale	Distribution	on (Years)	Single Value / Most Likely (Years)	oely Max (Years)	SD Rationale
	Organic		ļ.				Normal -	9.16F.05	. 9 16F.C	6F-08 CONSM	Normal	3.43F-05	-	3.43F.06	MISNO	Normal		3 80 F-03	3	3 A0F-04 SR7	Normal		5.6	ŀ	0.3 Howard et al 1991
	Organic						Normal	1.29E+03	- 1.29E+C	20	Normal	- 4.90E-02		4.90E-03		Normal		32.9		1	Uniform	0.55		2.74	CONSIM
PH Alphatic C5-C6	Organic				H		Normal	7.90E+02	- 7.90E-	DE+01 CL:AIRE	Normal	. 33		33		Normal	H	98		3.6 CL:AIRE	Normal		120		12 TPH Criteria Working Group 1996
	Inorganic	Triangular	29	117	249.6	- CONSIM							٠			Normal		4.41E+05		44100 CONSIM	Single		9.90E+11		- Assumed no decay of contaminant.
	Inorganic	Lognormal	9.0	4.1	17	4.1 CONSIM															Single		9.90E+11		- Assumed no decay of contaminant
	Inorganic	Lognormal	6.0	240	990 2	247.3 CONSIM. Maximum value for loam of unspecified pH.										Normal		6.51E+05		65100 CONSIM	Single		9.90E+11		- Assumed no decay of contaminant.
	Inorganic	Single		32		- CONSIM. Maximum value per loam of unspecified p.H.										Normal		1.67E+05		16700 CONSIM	Single		9.90E+11		- Assumed no decay of contaminant.
	Inorganic	Triangular	40	127	295	CONSIM. High values of Kd from unspecified material with FOC=11% not considered sufficiently conservative hence excluded.										Normal		2.93E+05	- 2	29300 CONSIM	Single		9.90E+11		- Assumed no decay of contaminant.
	Inorganic	Triangular	9	49	8.10E+02	CONSIM. Minimum, expected and maximum for a sand with unspecified pH.										Normal		930		93 CONSIM	Single		9.90E+11		- Assumed no decay of contaminant.
	horganic	Lognormal	1:0	450	1500	CONSIM. High values of Kd from glacial till unspediled material not considered sufficiently conservative hence excluded.										Normal		65.7		Value adopted for Mercury Chloride, assumed to be the most soluble and likely of mercury compounds	nr Mercury ad to be the Single I likely of nds		9.90E+11		- Assumed no decay of contaminant
	Inorganic	Normal		110		11 CONSIM															Single		9.90E+11		- Assumed no decay of contaminant.
	Inorganic	Lognormal (6.0	8	8100 2	2025 CONSIM. High maximum values not considered sufficiently conservative.										Normal		1.73E+05		17300 CONSIM	Single		9.90E+11		- Assumed no decay of confaminant
	horganic	Normal		435		CONSIM. Given extreme range of values normal distribution conservatively adopted around most likely experimental value.										Normal		0.0443		Value adopted for Lead Sulphate, assumed to be the most soluble and likely of lead compounds.	rrLead ed to be the likely of		9.90E+11		- Assumed no decay of contaminant
	Inorganic	Normal		45		4.5 RAIS (metallic)															Single		9.90E+11		- Assumed no decay of contaminant
	Inorganic	Normal		9.5		0.95 CONSIM. Values from material with FOC=11% innored.															Single		9.90E+11		- Assumed no decay of contaminant
	horganic	Triangular	5	26	420	CONSIM. High values of Kd from unspecified material with FOC=11% not considered sufficiently conservative hence excluded.										Normal		6.06E+05		60600 CONSIM	Single		9.90E+11		- Assumed no decay of contaminant
	horganic	Single		0		- CONSIM															Single		9.90E+11		- Assumed no decay of contaminant.
	horganic	Normal		8.0		0.08 CONSIM							٠								Single		9.90E+11		- Assumed no decay of contaminant
	horganic	H		0	ł	No data available. CONSIM Minimum and maximum for a barn with														П	Single		9.90E+11		- No data available.
Ammoniacal Nitrogen	Inorganic	+	9.0		2 5											Normal		9.00E+05	+	89990 CONSIM	Single	+	9.90E+11		-
	Organic	Uniform	0.22		2.2	- CONSIM															Uniform	0.14		0.82	



Determinand	Units	Distribution	Minimum	Mean / Most Likely	Maximum	Standard Deviation	Justification
Effective Rainfall	пттуваг	Normal		404.8		40.5	Calculated from Met Office Annual Rainfall for a nearby weather station (Pymouth, Mountbatten, https://www.metofice.gov.uk/research/climate/maps-and-data/uk-climate-averages/phoritoryin) between 1981 and 2010 (1007 mm/year), contribred with cortibred with ChESS potential evaportanspiration data (SOTmm/year for well waterod grass surface). Factor of 0.8 applied to account for presence of low permeability day layer to be placed over monthly of Eace Sm. Landfill. The proposed Eace Earn Landfill. The ChESS (All the climates) with associated Artificially Enhanced Geological Barrier (AECB) will cover approximately 58% of the existing Eakes Farm Landfill mass (7.82 hectares), therefore this is a conservative allowance.
Insaturated Zone							
Dry Bulk Density	g/cm³	Uniform	1.7		2.0		Range based on typical values for well compacted sand, gravel, silts and clay soils.
Air Filled Porosity	Fraction	Normal		0.2	-	0.02	Not a sensitive parameter (see sensitivity analysis for details). Value adopted based on Horizon professional experience on earthworks projects.
Water Filled Porosity	Fraction	Normal		0.1		0.01	Not a sensitive parameter (see sensitivity analysis for details). Value adopted based on Horizon professional experience on earthworks projects.
Fraction of Organic Carbon (FOC)	Fraction	Triangular	0.002	0.013	0.052	0.012	Based on site specific TOC data obtained for waste material (Eales Farm Landfill, see Table D1)
Unsaturated Zone Thickness	ε	Single		7	-		Range of fill thickness recorded from around 1m to greater than 16.4m. Typically fill thickness increases towards the west of the Site. Value adopted to reflect typical waste thickness across Site.
Unsaturated Zone Pathway							
Water Filled Porosity	Fraction	Normal		0.1		0.01	Not a sensitive parameter (see sensitivity analysis for details). Value adopted based on Horizon professional experience on earthworks projects.
Unsaturated Zone Pathway Thickness	ε	Uniform	0		3		Depth to water below base of waste increases towards the west of the Site. To account for groundwater levels operatingly does not at the base of the waste mass towards the east of the Site (i.e. at base of old historic valley, where water historically flowed in steam and is now assumed to flow around cutevit) misstanded zone reduced for the Nove extra the nor however in general a thickness of around 3mis more typical (see data in Table 0D), increasing to around 7m in wells located towards the north and south of the Site.
Hydraulic Conductivity	m/s	Triangular	5.00E-09	4.45E-06	8.78E-06		Maximum and most likely based on site spedific data for the bedrock (falling head tests conduction in boreholds BHZB and BH11B, see ESSD for reference), minimum based on BGS data to take account more regional hydraulic conductivity as opposed to localised permeability in botenbies.
Vertical Dispersivity	ε	Uniform	0		0.3		Assumed 10% of unsaturated zone thickness.
Dry Bulk Density	g/cm³	Uniform	1.8		2.4		Range for minimum and maximum adopted from weathered and unweathered mudstone respectively (CONSIM).
Aquifer Properties							
Tiickness	Ε	Single		30			Thickness of aquifer estimated based on difference in groundwater elevation at eastern edge of Site and sea water elevation. Not a sensitive parameter, therefore a single (low) value has been adopted. BGS records suggest the aquifer thickness may be between 100m and 200m.
Mixing Zone Thickness	ε			Calculated			Calculated within CONSIM.
Hydraulic Conductivity	m/s	Triangular	5.00E-09	4.45E-06	8.78E-06		Maximum and most likely based on site specific data, minimum based on BGS data to take account more regional hydraulic conductivity as opposed to localised permeability in boreholes.
Hydraulic Gradient		Uniform	0.12		0.14		Hydraulic gradient based on groundwater difference in groundwater elevations between BH1 and BH19-5.
Dry Bulk Density	g/cm ³	Uniform	1.8		2.4		Range for minimum and maximum adopted from weathered and unweathered meditione respectively (CONSIM).
Effective Porosity	Fraction	Uniform	0.21		0.41		Value for siltstone adopted from CONSIM
Longitudinal Dispersion	ε	Triangular	0	0.1	-		Maximum pathway assumed to be 1m for purpose of model (i.e. compliance point is immediately adjacent to Site). Mean assumed to be 10% of pathway.
Lateral Dispersion	Е	Triangular	0	0.03	0.3		30% of longitudinal dispersion.
Fraction of Organic Carbon		Normal	0.001	0.002	0.003		Three samples of bedrock analysed for TOC. All concentrations below LRL. Range adopted to take into account limited dataset.
Flow Direction	Degrees	Single		45			Groundwater flow in a north-easterly direction.





Determinand	Units	Distribution	Minimum	Mean / Most Likely	Maximum	Standard Deviation	Justification
Effective Rainfall	mm/year	Nomal		253		25.3	Calculated from Met Office Annual Rainfall for a nearby weather station (Plymouth, Mountbatten, https://www.metoffice.gov.uk/research/climate/maps-and-data/uk-climate-averages/gbv/nan/min) between 1980 and 2010 (1007 mm/yean), combined with combined with CHESS potential evapotranspiration data (501mm/year for well watered grass surface). Factor of 0.5 applied to account for presence of low permeability clay layer to be placed over entire hydrocarbon hotspot area.
Unsaturated Zone							
Dry Bulk Density	g/cm ³	Uniform	1.7		2.0		Range based on typical values for well compacted sand, gravel, silts and clay soils.
Air Filled Porosity	Fraction	Normal		0.2		0.02	Nof a sensitive parameter. Value adopted based on Horizon professional experience on earthworks projects.
Water Filled Porosity	Fraction	Normal	,	0.1		0.01	Not a sensitive parameter. Value adopted based on Horizon professional experience on earthworks projects.
Fraction of Organic Carbon (FOC)	Fraction	Triangular	0.002	0.013	0.052	0.012	Based on site specific TOC data obtained for waste material (Eales Farm Landfill, see Table D1)
Unsaturated Zone Thickness	٤	Triangular	1	3	9		Based on review of soil descriptions in borehole logs and chemical testing data, particularly BH10 where greatest impacts identified.
Unsaturated Zone Pathway							
Water Filled Porosity	Fraction	Normal		0.1		0.01	Not a sensitive parameter. Value adopted based on Horizon professional experience on earthworks projects.
Unsaturated Zone Pathway Thickness	٤	Uniform	0	ı	е	-	Depth to water below base of waste increases towards the west of the Site.
Hydraulic Conductivity	s/ш	Triangular	5.00E-09	4.45E-06	8.78E-06		Maximum and most likely based on site specific data, minimum based on BGS data to take account more regional hydraulic conductivity as opposed to localised permeability in boreholes.
Vertical Dispersivity	ш	Uniform	0	-	0.3	-	Assumed 10% of unsaturated zone thickness.
Dry Bulk Density	g/cm³	Uniform	1.8		2.4		Range for minimum and maximum adopted from weathered and unweathered mercia mudstone respectively (CONSIM).
Aquifer Properties							
Thickness	Е	Single	,	30		1	Thickness of aquifer estimated based on difference in groundwater elevation at eastern edge of Site and sea water elevation.
Mixing Zone Thickness	Ε			Calculated			Calculated within CONSIM.
Hydraulic Conductivity	s/ш	Triangular	5.00E-09	4.45E-06	8.78E-06		Maximum and most likely based on site specific data, minimum based on BGS data to take account more regional hydraulic conductivity as opposed to localised permeability in boreholes.
Hydraulic Gradient		Normal	0.12		0.14		Hydraulic gradient based on groundwater difference in groundwater elevations between BH1 and BH19-5.
Dry Bulk Density	g/cm ³	Uniform	1.8		2.4		Range for minimum and maximum adopted from weathered and unweathered mercia mudstone respectively (CONSIM).
Effective Porosity	Fraction	Uniform	0.21		0.41		Value for siltstone adopted from CONSIM
Longitudinal Dispersion	Ε	Triangular	0	0.1	-		Maximum pathway assumed to be 1m for purpose of model (i.e. compliance point is immediately adjacent to Site). Mean assumed to be 10% of pathway.
Lateral Dispersion	٤	Triangular	0	0.03	0.3		30% of longitudinal dispersion.
Fraction of Organic Carbon	1	Normal	0.001	0.002	0.003		Three samples of bedrock analysed for TOC. All concentrations below LRL. Range adopted to take into account limited dataset.
Flow Direction	Degrees	Single		45			Groundwater flow in a north-easterly direction.





Determinand	Units	Distribution	Minimum	Mean / Most Likely	Maximum	Standard Deviation Justification	Justification
Effective Rainfall	mm/year	Normal		506.0		50.6	Calculated from Met Office Annual Rainfall for a nearby weather station (Plymouth, Mountbatten, flttps://www.metoffice.gov.uk/research/climate/maps-and-data/uk-climate-averages/gbv/nbxjm/petween 1980 and 2010 (1007 mm/year), combined with combined with CHESS potential evapotranspiration data (501mm/year for well watered grass surface).
Unsaturated Zone							
Dry Bulk Density	g/cm³	Uniform	1.7		2.0		Range based on typical values for well compacted sand, gravel, silts and clay soils.
Air Filled Porosity	Fraction	Normal	,	0.2		0.02	Not a sensitive parameter. Value adopted based on Horizon professional experience on earthworks projects.
Water Filled Porosity	Fraction	Normal	,	0.1		0.01	Not a sensitive parameter. Value adopted based on Horizon professional experience on earthworks projects.
Fraction of Organic Carbon (FOC)	Fraction	Triangular	0.002	0.013	0.052	0.012	Based on site specific TOC data obtained for waste material (Eales Farm Landfill, see Table D1)
Unsaturated Zone Thickness	ш	Single		4.7			Range of fill thickness planned up to a maximum of around 15m. For modelling purposes, average thickness of 3.5m based on area of 7.2Ha and proposed import volume of 250,000m3.
Uncaturated Zone Pathway							
Water Filled Porosity	Fraction	Normal		0.1		0.01	Not a sensitive parameter. Value adopted based on Horizon professional experience on earthworks projects.
Unsaturated Zone Pathway Thickness	٤	Single		1.0	,		Assumed nominal 1.0m thick layer of consolidated clay placed in form of layer prior to import of additional waste.
Hydraulic Conductivity	s/m	Single		1.00E-07			Allowance for low permeability layer installed at base of each phase.
Vertical Dispersivity	Е	Single		0.1			Assumed 10% of unsaturated zone thickness.
Dry Bulk Density	g/cm³	Uniform	1.8		2.4		Kange for minimum and maximum adopted from weathered and unweathered mercia mudstone respectively (CONSIM).
Aquifer Properties							
Thickness	٤	Normal	,	30	,	8	Thickness of aquifer estimated based on difference in groundwater elevation at eastern edge of Site and sea water elevation.
Mixing Zone Thickness	ш	-	•	Calculated	,		Calculated within CONSIM.
Hydraulic Conductivity	s/ш	Triangular	5.00E-09	4.45E-06	8.78E-06		Maximum and most likely based on site specific data, minimum based on BGS data to take account more regional hydraulic conductivity as opposed to localised permeability in boreholes.
Hydraulic Gradient		Uniform	0.12		0.14		Hydraulic gradient based on groundwater difference in groundwater elevations between BH1 and BH19-5.
Dry Bulk Density	g/cm ³	Uniform	1.8	1	2.4		Range for minimum and maximum adopted from weathered and unweathered mercia mudstone respectively (CONSIM).
Effective Porosity	Fraction	Uniform	0.21	,	0.41		Value for siltstone adopted from CONSIM
Longitudinal Dispersion	Ε	Triangular	0	0.1	~		Maximum pathway assumed to be 1m for purpose of model (i.e. compliance point is immediately adjacent to Site). Mean assumed to be 10% of pathway.
Lateral Dispersion	ш	Triangular	0	0.03	0.3		30% of longitudinal dispersion.
Fraction of Organic Carbon	,	Triangular	0.001	0.002	0.003		Three samples of bedrock analysed for TOC. All concentrations below LRL. Range adopted to take into account limited dataset.
Flow Direction	Degrees	Single		45			Groundwater flow in a north-easterly direction.





1000				BH11B Su	Summary Statistics	Future Ba	Future Background Concentrations*	trations*	RPD	٥
Determination						Mean	Maximum	SD	Mean	Maximum
PAH Sum of 17 (Benzo(a)pyrene)	<0.002	NC	<0.002	NC	Sum PAHs not detected above LRL in any samples from BH11B to date.	2.04E-04	7.92E-04	1.22E-04	NC	NC
PAH Sum of 17 (Naphthalene)	<0.002	NC	<0.002	NC	Sum PAHs not detected above LRL in any samples from BH11B to date.	1.60E-01	1.65E+00	2.02E-01	NC	NC
Mineral Oil (TPH Aliphatic C16-C21)	<0.01	NC	0.34	NC	Sum TPH only detected above the LRL in one sample from BH11B to date.	0.00E+00	0.00E+00	0.00E+00	NC	ON
Mineral Oil (TPH Aromatic C16-C21)	<0.01	NC	0.34	NC	Sum TPH only detected above the LRL in one sample from BH11B to date.	5.36E-02	3.60E-01	3.66E-02	NC	NC
Mineral Oil (TPH Aromatic C21-C35)	<0.01	N N	0.34	NC	Sum TPH only detected above the LRL in one sample from BH11B to date.	5.45E-04	4.47E-03	3.81E-04	NC	OZ
Arsenic	<0.001	1.09E-03	1.70E-03	2.06E-04		1.39E-02	1.30E+00	9.20E-02	-171%	-199%
Cadmium	<0.00008	9.08E-05	2.20E-04	3.88E-05		3.01E-05	5.12E-03	2.18E-04	100%	-184%
Chromium	<0.001	3.87E-03	1.50E-02	4.08E-03		8.83E-02	6.55E-01	1.03E-01	-183%	-191%
Copper	<0.001	1.58E-03	3.60E-03	9.13E-04		3.55E-03	3.76E-01	2.63E-02	NC	NC
Mercury	<0.0005	NC	5000.0>	NC		9.19E-07	2.36E-04	1.09E-05	NC	NC
Nickel	<0.001	1.15E-03	2.70E-03	4.70E-04		1.72E+01	3.76E+02	3.90E+01	-200%	-200%
Lead	<0.001	1.00E-03	1.00E-03	0.00E+00		1.02E-05	6.37E-03	2.35E-04	NC	NC
Zinc	<0.001	4.58E-03	2.10E-02	6.16E-03		3.56E-02	7.86E+00	2.94E-01	-154%	-199%
Manganese	<0.001	3.17E-01	7.70E+00	1.51E+00		7.02E-04	2.14E-01	7.68E-03	199%	189%
Ammoniacal Nitrogen	<0.05	7.51E-01	3.00E+00	8.05E-01		6.07E-01	3.67E+00	4.96E-01	21%	-20%

Notes

LRL - Laboratory Reporting Limit (Element Laboratory at time of report issue)

* Output from Existing Eales Farm Landfill Model

EFLM - Existing Eales Farm Landfill Model

Statistics assume contaminant concentrations reported below LRL are at the LRL.

SD - Standard Deviation

NC - Not Calculated

RPD - Relative Percentage Difference between concentrations detected in well BH11B and EFLM output at compliance point. Negative values indicate greater concentrations predicted by model, positive values indicate greater concentrations measured in water samples.

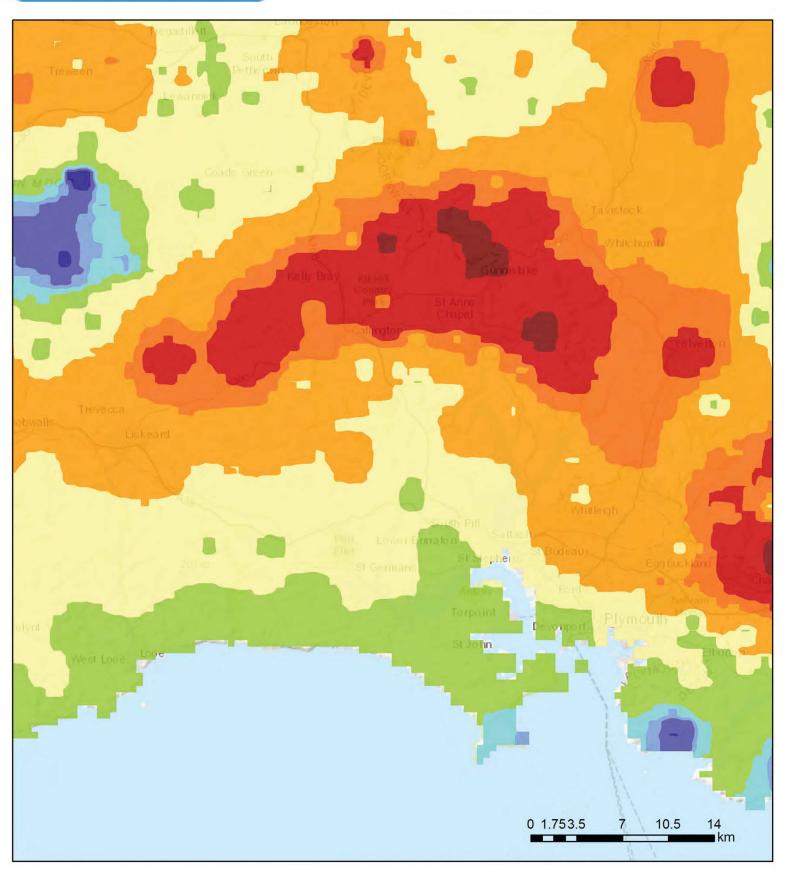
Future Background Concentration Utilised in Model (based on normal distribution).

Tamar View Landfill Appendix E

Appendix E BGS Maps Showing Background Soil Concentrations



UK Soil Observatory



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © UKSO: NERC, James Hutton Institute, Cranfield University NSRI, Agri-Food and Biosciences Institute, Forest Research, Forestry Commission & Natural Resources Wales and Ordnance Survey

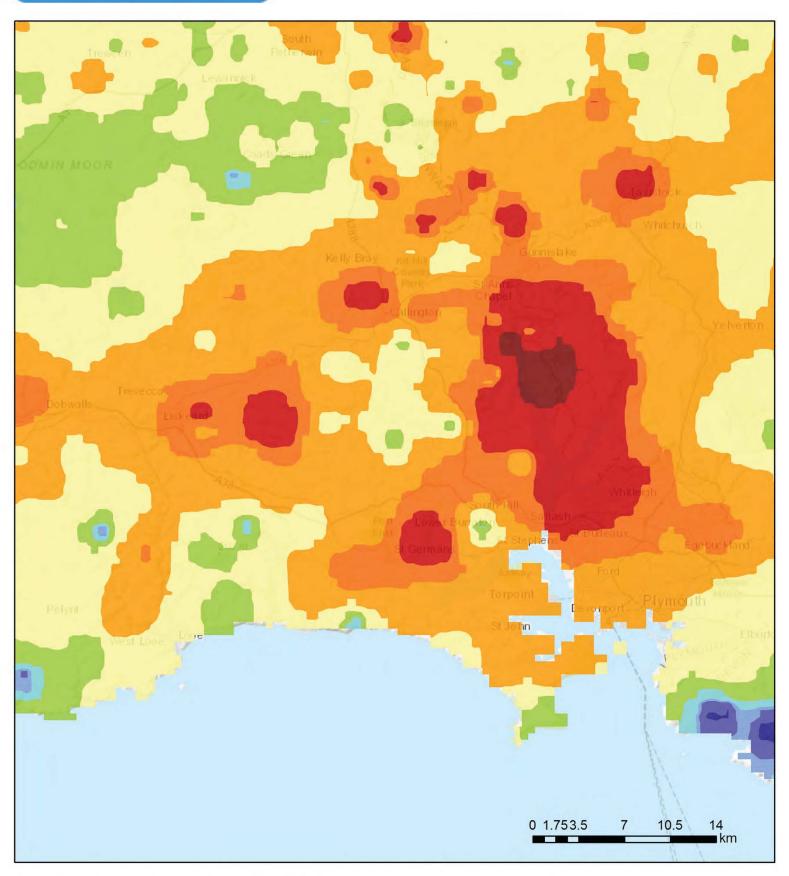
Map Key

Arsenic (As) in soils (SW only)

As mg/kg	percentile
1949	100
448	99
146	95
96	90
42	75
23	50
16.2	25
13.8	15
12.5	10
10.5	5
	The second second



UK Soil Observatory



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © UKSO: NERC, James Hutton Institute, Cranfield University NSRI, Agri-Food and Biosciences Institute, Forest Research, Forestry Commission & Natural Resources Wales and Ordnance Survey

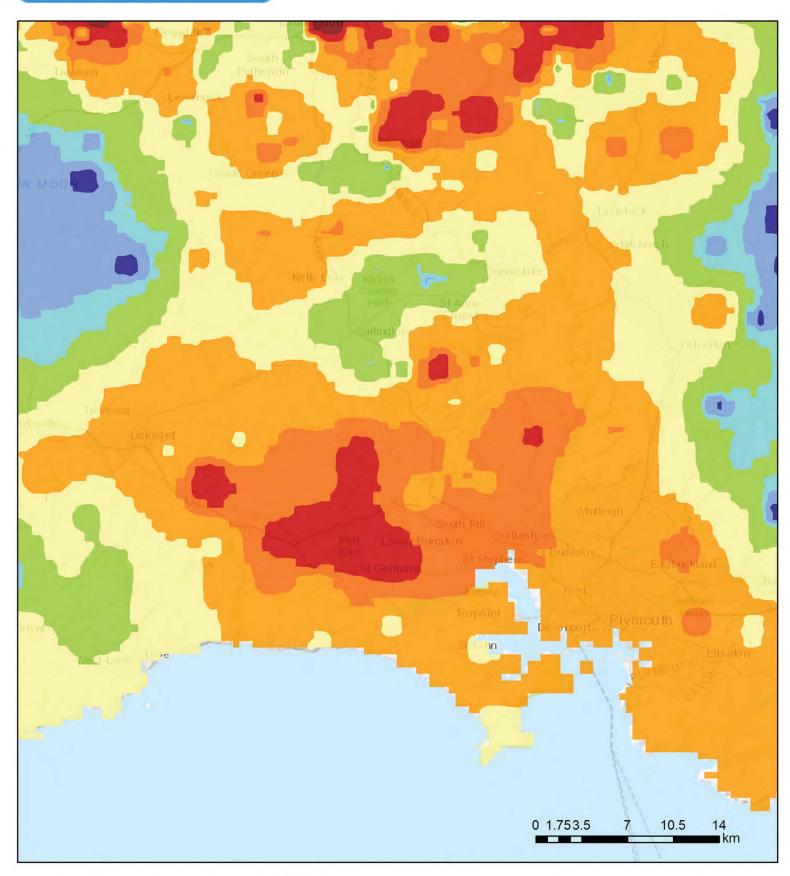
Map Key

Lead (Pb) in soils (SW only)

Pb mg/kg	percentile
532	100
275	99
119	95
89	90
58	75
40	50
31	25
28	15
26	10
24	5
	4



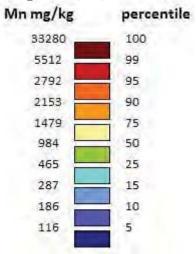
UK Soil Observatory



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © UKSO: NERC, James Hutton Institute, Cranfield University NSRI, Agri-Food and Biosciences Institute, Forest Research, Forestry Commission & Natural Resources Wales and Ordnance Survey

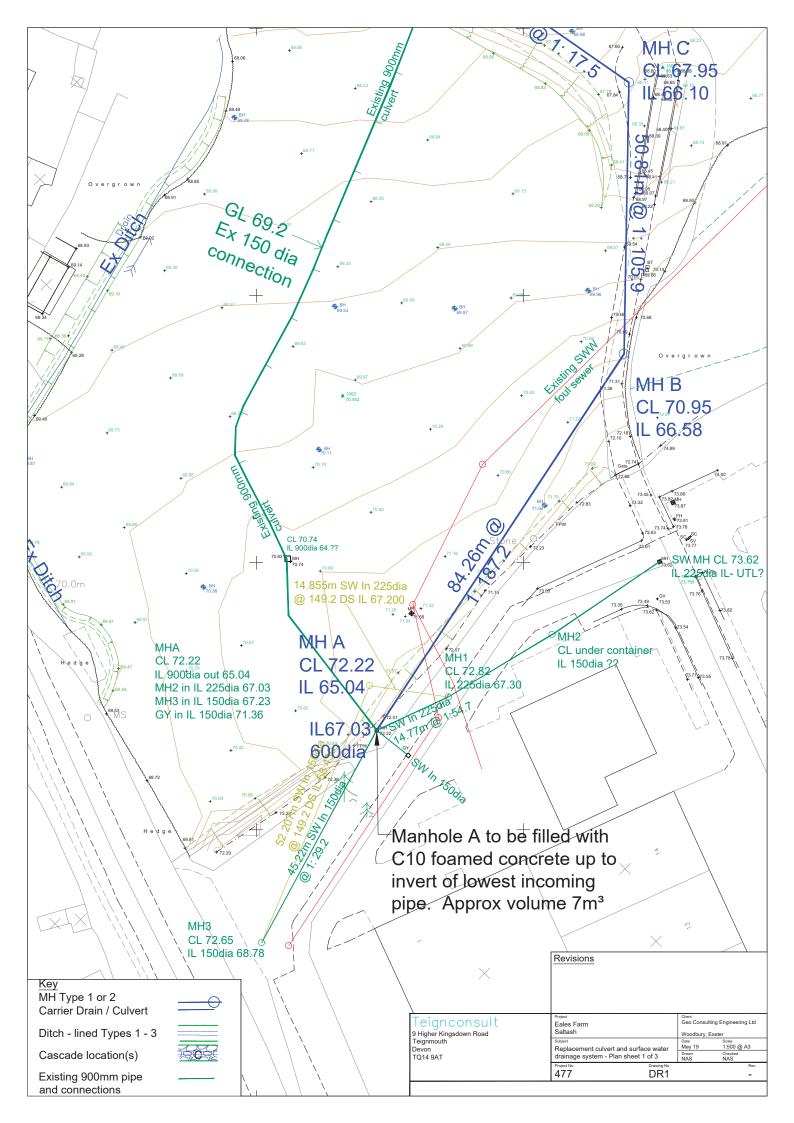
Map Key

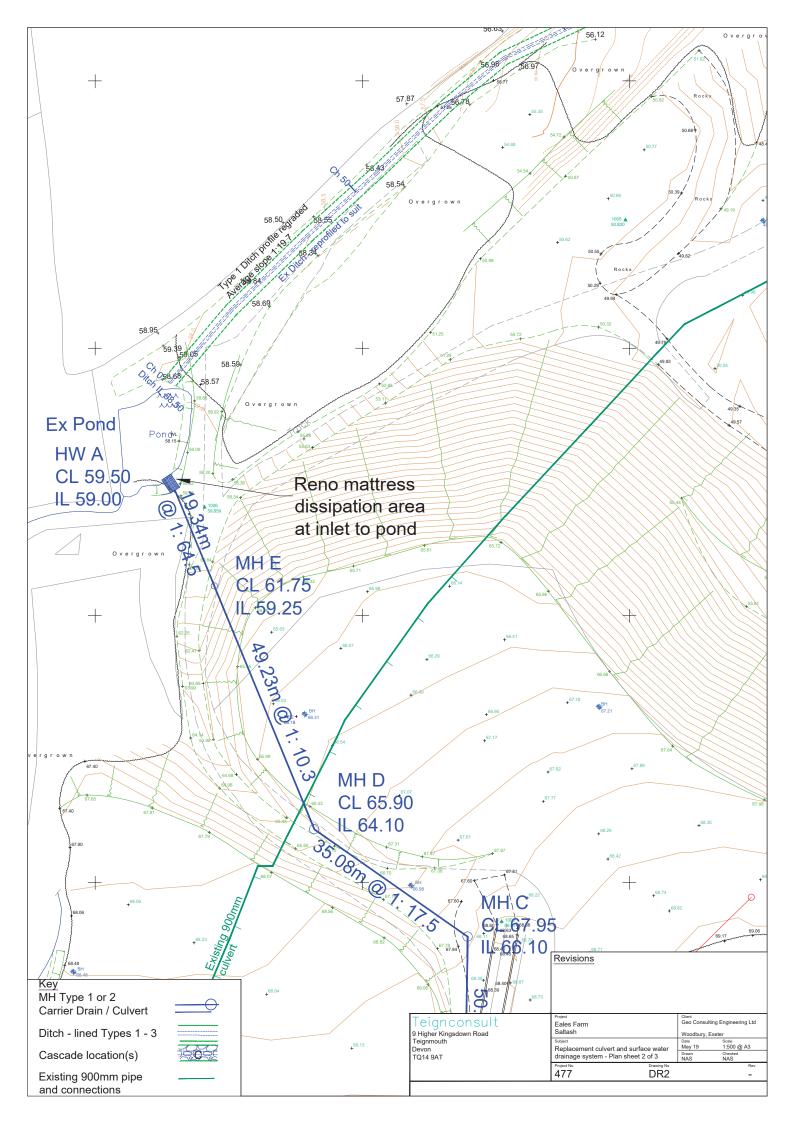
Manganese (Mn) in soils (SW only)

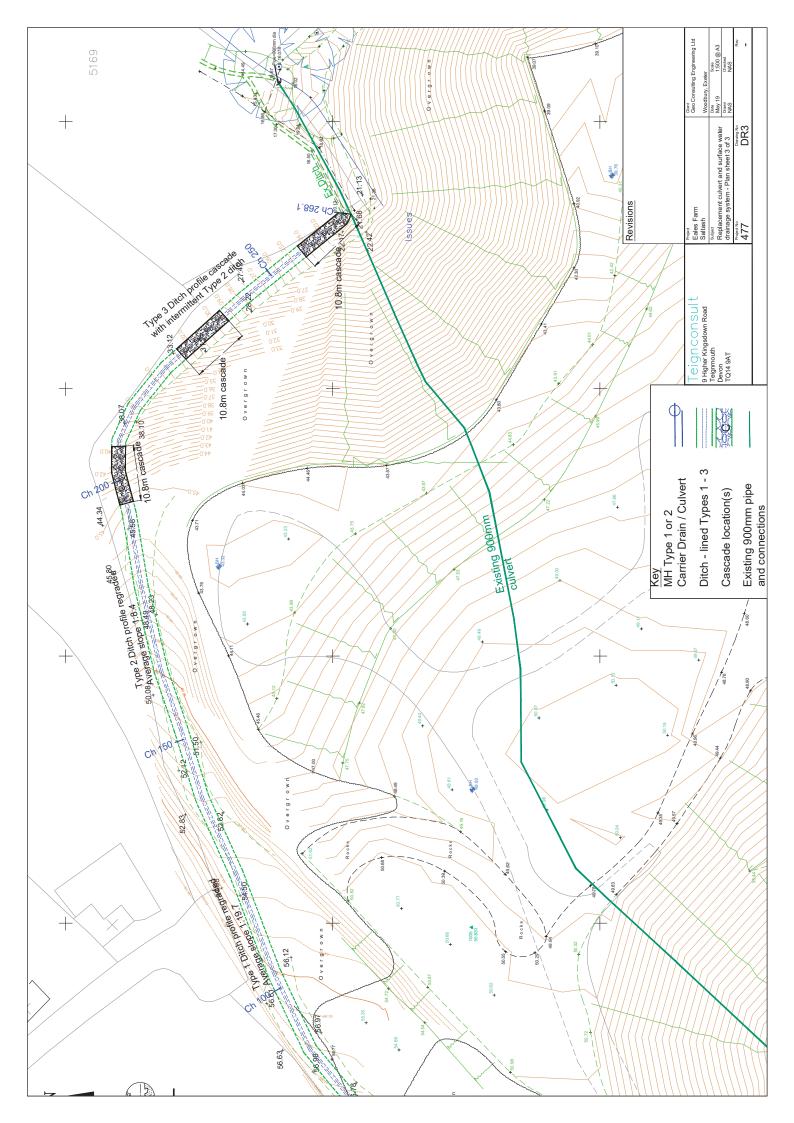


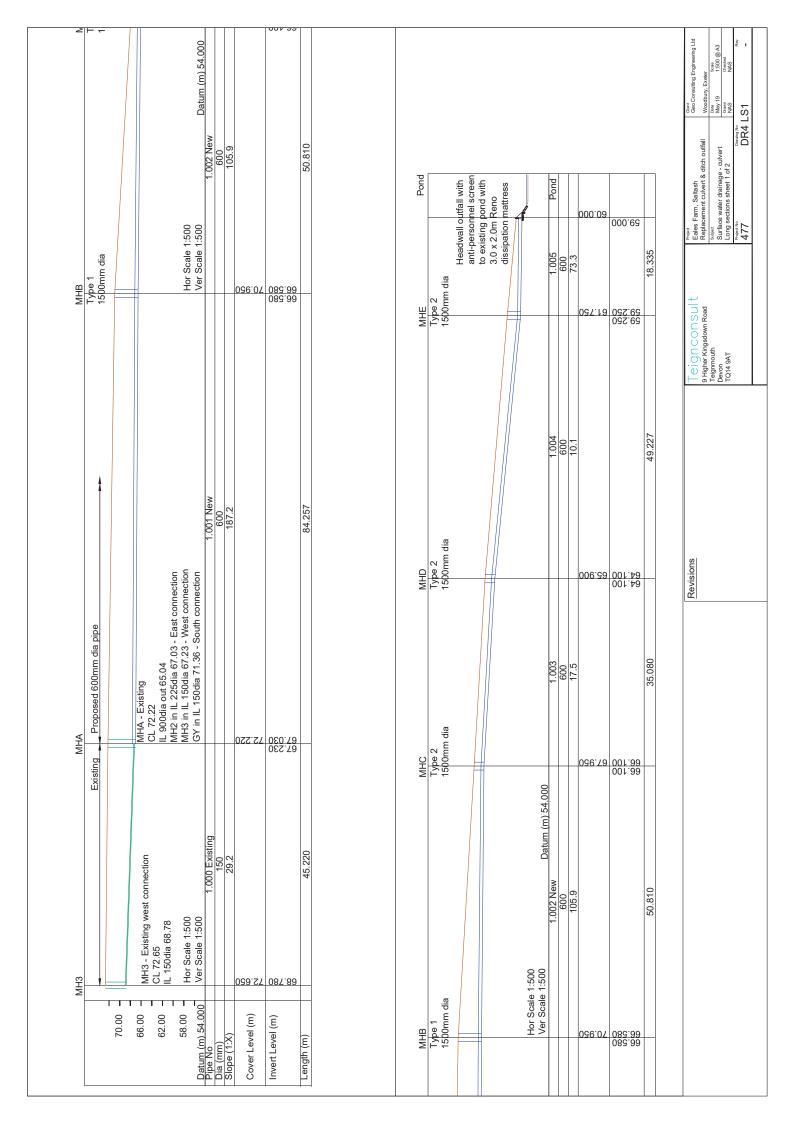
Tamar View Landfill Appendix F

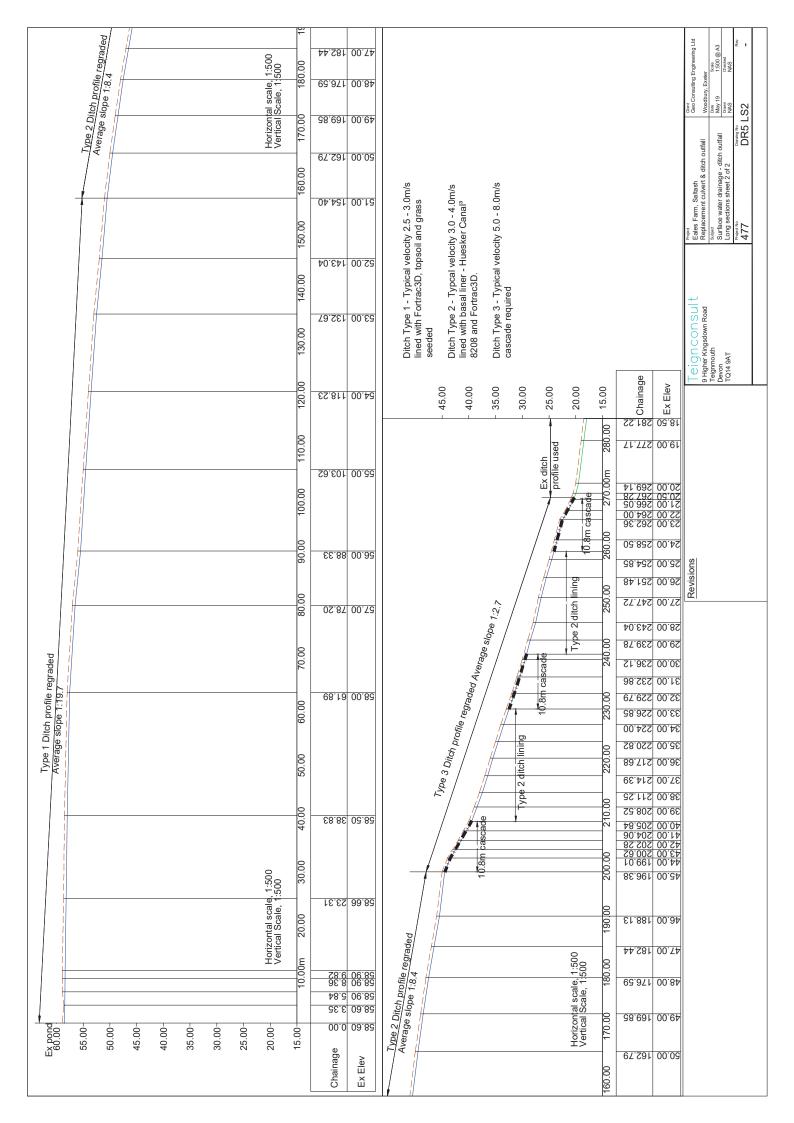
Appendix F Proposed Culvert Design











Tamar View Landfill Appendix G

