



Photograph taken 28 November 2019 showing the grassed and landscaped area immediately to the south east of the Alex Grimson Building.



Photograph taken 27 November 2019 showing the north section of the site and the sampling location MW1.



Photograph taken 28
November 2019 showing the central/east section of the site and the sampling location MW2. Asbestos related controls were implemented due to the previous detection of friable asbestos at the nearby sampling location JKE137.





Photograph taken 27 November 2019 showing the south west section of the site and the sampling location MW3.



Groundwater Field Sheets



Johnstaff	Projects Pr	y Ltd	OLINGA T		Job No.:	E328	37BD		
Proposed	Main Worl	ks Building		******	Well No.:	I	w/ 1		
NSW	Street, Ivra	n campus, Liverpoor	Hospital, LIVE	RPOUL,	Depth (m):	<u>-</u>	117		
ver		Stand	pipe			Other (desc	ribe)		
LS:	1 1	1. A. v.							
	P	estellic				5.25			
						10:25			
		and a company of the second	**************		*************	29			
O MEASUR		6204		PID (ppm):	60			
1				no.					
	VOI (L)	Notes		(mg/L)		pH	Eh (mV)		
						6.96	839		
	2	***********************	21.8			7.07	57.0		
			21.9	0.5	10804	6.71	459		
	*******			0.4	10908	6 68	42.7		
6.32				0.4	10744	6.75	44.6		
6.66		*********************	217	0-3	11397	662	419		
			218	0.3	12 284	6.58	36.5		
705	8		21.7	0.3	12545	6.55	138.0		
個721	9		21.7	6.1	13032	654	39.4		
7:38	10		218	0.4	13544	653	39.8		
7.52	11		21.8	04	13973	6.52	401		
7.60	12		2/8	0.4	14 335	650	404		
771	13		2/-8	0.4			40.6		
7.81	14		219	0.4			40 6		
789	15		2/.9	0.2	17662		376		
774	16		220	6.3	18529		388		
787	17	***************************************	21.9	0.2	18959	6.46	346		
	18		219	0.2		647	33.6		
The state of the s	19		219				35.8		
100000000000000000000000000000000000000	20		221				40.0		
8.27	21		22.1	06			44.2		
8-31		********************	222				44.6		
	23			8.5			29.0		
8.44	24		221	0.7	15330	6.70	F5.4		
	**********		22.2	0.6	12288	6.59	6 2.6		
8.50	25			U.E	111200	12/37	(5 /.1.		
	NSW ver ILS: IG MEASUR SWIL (m) 5 45 5 57 5 84 6 04 6 35 6 66 6 86 7 05 M721 7:38 7:38 7:52 7:60 7:71 7:81 7:87 8 0.2 8 14 8 20 8 27 8 31 8 36	Ver ILS:							



	1			Targar Ann					
Client:	Johnstaff						Job No.:	E328	37BD
Project:	Proposed	Main Wor	ks Buildi in Came	ng Instituemani	Hospital, Livel	ורוכוכ	Well No.:		WZ
Location:	NSW		Odinj	oo, Errorpoor	1103pital, ETVE	W OOL,	Depth (m):		12
WELL FINISH			-	- 1-					
➤ Gatic C				Stand	dpipe			Other (desci	ribe)
Method:	AILS:		0. 11.			SWL - Be	fa.m.	7.50	
Date:			Pershalic						
Undertaken By:			1 12 17			Time – Be		2 22	
Pump Program No:				***************************************			Removed:	10	
PURGING / SAMPLI		//	4			PID (ppm)):	122	
Time (min)	SWL (m)	Vol (L)		Notes	Temp (°C)	DO (mg/L)	EC (µS/cm)	pH	Eh (mV)
2:25	7.56		2		22.1	18	7/8/	7.67	-26.0
2:28	8 24	2		***************************************	24.0	0.4	14 078	687	-190
2:31	8.48	3	***************************************		23.9	0.3	12602	6.95	-1.3
2:34	8.63	4	**********	***************	28.8	0.3	12/00	6.97	77
2:37	8.83	5	********	**************	23.9	0.2	1/932	6.97	0.7
2:40	8.97	6		***********	23.9	0.4	11949	6.97	-16.7
2.43	9.08	7	*********	*************	240	0.4	12418	6.94	-26.7
2:47	218	8	********		24.3	0.5	12977	6.93	-366
Storted	Sounds	***********			9A A		12///	6.73	000
GUOLTSA	200019101	3		************		********	***************************************		
			********		*****************		*************		
**************************************				***********			***********		
		***********			***************************************			*************	
					~~~~		***************************************		
	••••••								<b></b>
*************		*********	*******						
		***************************************	********						
								***************************************	
***************************************									
*******************									
							***********		
************************		*********							
0	(VEQ / (To)	1145-15						-	I 1
					x HNO3 plasti				plastic
YSI used: 3	tohall		In						
Fested By: Alistair Mi			Remark	k <u>s:</u> ly state condi	itions				
	2.19				H less than 0.2	units, diffe	erence in cond	uctivity less t	han 10%
	MD		10% a	nd SWL stabl	le/not in drawdo	wn			
Date:	14/02/19								



Client:	Johnstaff	Projects Pty	/ Ltd			Job No.:	E3283	7BD		
Project:		Main Work		*************		Well No.:		V3		
Location:	Gouldam	Street, Wall	TCampus; Liverpoor H	ospitar, LTVE	RPUUC,	Depth (m):		6.3		
WELL FINISH	INSW							. 3		
Gatic C	over		Standp	ipe		1	Other (descri	be)		
WELL PURGE DETA	AILS:					*		-		
Method:			Perisfaltic .	010000000	SWL - Be	fore:	4.0	1		
Date:			1.12-19	***************************************	Time - Be	fore:	8:27			
Undertaken By:	***********	**************	AM		Total Vol	Removed:				
Pump Program No:	************	********	106204		PID (ppm)		18:2			
PURGING / SAMPLI	NG MEASUR			0						
Time (min)	SWL (m)	Vol (L)	Notes	Temp (°C)	DO (mg/L)	EC (µS/cm)	_B pH	Eh (mV)		
<i>5</i> :30	4.05		-10	20.1	17	3705	6.78	24.9		
8:33	4 🖤	2	************	20.3	14	8099	7.23	-98-6		
8:37	4.38	3	***********************	20 4	1.2	8445	7.21	-100.1		
8:41	4.83	4	*************************	20.4	1.7	95/8	7:01	-69.1		
8:45	5:18	5	***************************************	20.4	2.3	9674	6.95	-64.7		
8:57.	4.41	6	***************************************	20.5	3.6	9309	7.12 -	-56.6		
71		tal	**************		1 0	7307		201		
	4							0.		
	4									
***************************************			***************************************							
Sampling Cont 'SI used: 2 Tested By: Alistair M	Ozovic ainers Used		Remarks: - Steady state condition of the pH 10% and SWL stable	x HNO3 plast	units, diffe	O4 plastic, I x	unpreserved p	12		



	1								
Client:		Projects F	Andrew Committee of the			Job No.:	E32	837BD	
Project:	Proposed	Main Wor	rks Building			Well No.:	]	135	
Location:	NSW	Olicet, Ma	ain Campus, Liverpoor	Hospitar, LIVE	RPOUL,	Depth (m):		95	
WELL FINISH								7.3	
→ Gatic C			Stand	pipe			Other (des	cribe)	
WELL PURGE DET	AILS:		1.1.						
Method:			knlalliz		SWL - Be	fore:	8.06		
Date:			12.17		Time - Be	fore:	12:55		
Undertaken By:		/	M		Total Vol	Removed:	9		
Pump Program No:		10	6204		PID (ppm)	:	0		
PURGING / SAMPLI	ING MEASUR	EMENTS							
Time (mln)	SWL (m)	Vol (L)	Notes	Temp (°C)	DO (mg/L)	EC (µS/cm)	ρН	Eh (mV)	
12.59	842			23.6	1.5	14990	7.11	123.6	
1:03	8.53	2		23	15	15/2	687	123.4	
107	8.78	3		22.5	0.5	15 66 3	6.83		
1:11	897	4		224	0.0	14979	682	79.7	
15	9.08	5		22.6	6.6			72.6	
1:19	9.17	6		22.5	0.6	15009	6.83	66.9	
Started	Sam	1		2-0	0.6	15092	6.83	46.3	
ARGGO	- OUNM	20.00					***************************************		
***************									
					7				
								***********	
						***************************************			
***************************************		**********	***************************************						
		***************************************					,		
*****************									
***********									
*********									
							************		
							***************************************		
omments: Odours	(YES / NO)	NAPL/PS	SH (YES / NO) Sheen (Y	ES / (NO) Stea	dy State A	chieved (YES	(NO)		
		low	XII load				0	-71	
Slused: 3	010 03004	∨ Aiges gi	nber& x BTEX vials, 2	HNO3 plastic, <i>PuPI</i> /2	()x H2SO4	plastic, /x un	preserved pl	astic	
ested By: Alistair Mil	tchell		Remarks:	F4/ 10 C					
	2.19	***********	- Steady state condition	ns					
			- difference in the pH le	ess than 0.2 un	its, differe	nce in conduct	livity less the	an 10%	
	4/12/19	······	10% and SWL stable/n	ot in drawdow	n		,	1070	
ale.	41166/17								

Client:	Johnstaff Projects F	Pty Ltd				Job No.:			E32837BD
	Proposed Main Wo			•••••		Well No.			hwi
		ain Campus, Liverpoo	l Hospital, Ll'	VERPOOL	, NSW	Depth (n	1):		11.7
VELL FINIS	H DETAILS								
1	Gatic (	Cover 🗹	Standplp	. 🗆			Other (de	scribe)	
	LOPMENT DETAIL						,,,,,,		
Wethod:			<u>-p</u>	SWL - Be				0.4	**************
Date:	Par	36/11/19	************	Time - Bo				14:	*********
Jndertaken Fotal Vol. Re		13		SWL - Af Time - Af	*********			Da	(m)
ID Reading		11.6	***********						
Comments:									
	ENT MEASUREME	NTS					,		1
Volui	me Removed (L)	Temp (°C)		O g/L)		EC S/m)	р	Н	Eh (mV)
		29.1	4		C	191	9.1	Lis	191
	٠٠٠٠)	29.0	3,		6	88	8	16	1136
		26.4	hat	)	71	2	9.0	Q	72.6
	<u> </u>	26.1	0.0		//		70	10	55 7
	<u>-</u>	26.2	0.5	*********	171	5		े ह	39.00
	<u> </u>	26 4	The second second second	. P 	2	2 <u>C)</u>	7.7		29 -2
	~~	26.5	0.4			755		<u> </u>	<u> </u>
	G1 26.56		0.0		ne	2	7.5		ار ارد
	70	269	06	********	7	5 -5	70	7	338
	11	21.0	3.	5	7	763 7		36	च्ये त
	1,5	27.2	3.	3	7	65		27	<u> </u>
	125	273	0.9			77	7	20)	-(0, 0,
	14	22.3	0.0	>	7	-27	7	126	<u> </u>
	<u> </u>	1774	1.0		65	267	7	***********	-10,0
	<u> </u>	27.2		6		23	7	75	-14.3
		7 ( )	-62	6	.65	************		22	25.1
	49	755		<u> </u>		12		14 86	230
	<u>50</u>	070		~	7/2	18	7.0	**********	138
	9.3	0520	40	**********		2	7.0		11.8
*************	77	26.6	1/. 8		941	***********	6.0	**********	10.1
*************	23	26	1.9	************		Ci	6.0		101
omments:C	Odours (YES / NO	Name NAT	NO) She	en (YES	The second second second		Achieved	(YES / N	
SI Used: -	2								
	***								
ested By:	MM	Remar	ks:						
		Stone	ly state condi						
ate Tested:	261	- Differ	ence in the pi VL stable/not			s, differenc	e in the con	ductiveity l	less than 10%
					,	med usts	see wall aver	and contil to	is effectively dry
hecked By: ate:	*****************	2/19 - Minim	.am o mondo	#FCII #C	acines pt	agou, unie	aa wen half	jou until It	is encouvery dry
	24	269	1.00		B	12	5	576	801
	V =>	26. %	23		3	90		596	
	2.6	26.7	2.4		V	90		a (क इ.१५	, , ,
	0		-		C	17 19 19 19 19 19 19 19 19 19 19 19 19 19	- (		* *.
	26	26 6	(2 4		1-	88	ć.	5 11 0	15
		26.4	22		9	90	6	93	75
	2.0	25.2	1.9		_	,	~	93	11

Client:	Johnstaff Projects F	ty Ltd			Jol	No.:		E10007DD
Project:	Proposed Main Wor	ks Building	***************************************			II No.:		E32837BD
Location:	Goulburn Street, Ma	in Campus, Liverpo	ol Hospital, LI	VERPOO		pth (m):		MV2
WELL FINI	SH DETAILS				2,11011   Del	par (m):		12
1		<b>E</b>		-				
WELL DEV	Gatic C ELOPMENT DETAIL	Cover 🔀	Standpip	еШ		Other (de	scribe)	
Method:	ELOPMENT DETAIL			Jane -				
Date:	*********************	Darch pure	wT.		efore (m):		2.8	12
Undertake	. P	281ilin	***************************************	Time ~ E			2:	50
Total Vol. I		AM/MM F		SWL - A	****************			
		45		Time - A	fter:		3:	20
PID Readir Comments		169						*************
	MENT MEASUREMEN	ITS						
The second second	me Removed		T D	0	EC	-1		
	(L)	Temp (°C)	(mg		(µS/m)	pl	1	Eh (mV)
	4	265	0.1		4536	6.00		-53/
	8	26.2	0-1		4500	6.30		-73 4
	12	-26.2	0.1	**********	4566	6.4	*******	-87.6
- consequences	16	26.2	6-1		457			
	20	26.2	01		457			87.4
	24	26.2	01		4588			-89.5
	28	26.2	0.1		13.08	690		90.9
	32	26.1	0.1		4615	6.8	**********	-96.5
	16	261	0.1	*********	************			-99.0
CTC-10-10 have a grant of	0	261	0.1		4661	6.84		-1017
·	44	26.2	6.2		4769	6.8		-102.4
	45	26.2	0.0		2765		**********	-102.7
			0.4		9559	6.68		-68.5
	pan pan	nel Prz						
	***************************************	***************************************		· · · · · · · · · · · · · · · · · · ·				
*************								
		**********						
		**********			*************			
**********								
	*******************	*****************						
	***************************************							
	****************	***************************************						
					3			
	01-07-0	S	1			4		
omments:( گى :SI Used	Odours (YES 1 NO	- 4 /	(NG), Sheer	(YES	NO), Steady Si	tate Achieved (Y	ES (NO)	) `
ested By:	AMIN							
ate Tested:	28/	IG - Differen	state condition nce in the pH k stable/not in	ess than (	).2 units, differe	nce in the conduc	tiveity less	than 10%
necked By:						niess well purged		W- 11
recited by.	M	range component		, <b>*</b> OIL	oo purgeu, Ul	ು≂ಾ we⊪ purged	unul it is ef	Tectively dry

	KEr Johnstaff Proje	CUS PIVI	td				,			
Project:	Proposed Mair	Works I	Devildin -				Job I	11-		
Location:	Goulburn Stree	t, Main (	amnue Live			***********	Well	Manager 1		E32837BD
WELL FIN	ISH DETAILS		ampus, Liverp	ool Hospital	LIVERPO	OOL, NSW	Depti	Marie 25 Contractor		MUZ
							Depti	(m);		62
WELL DE	Ga ELOPMENT DE	tic Cove	rX	Standp						
Method:	LEOF WENT DE	AILS			ipe 🗀			Other (de	escribe)	7
Date:			Darloper	ent	SWL -	Before (m):			combe) L	
Undertaker	By:		27/11/11		Time -	Before:			0.	65m
Total Vol. R			MMP			After (m):			2:0	0
PID Reading	g (ppm):		18		Time -				_	(A,)
Comments:	Page 1		3.8						2.	30
DEVELOPM	ENT MEASUREN	MENTS					_			
VOILI	ne Removed (L)		Temp (°C)	1	0		-			
J	24	-		(mg		EC	7.3			
	4		1.4	0,0		(µS/m		Hq		Eh (mV)
	12	-	27.5	0.5	2	1612		802		99.8
	16	+-4	74	0.	(	1075		8.00	and the second second	977
	18		269	3.1		100		7.90	3	43.8
P	unped	6	100	0.7	7	150	5	70,	7 1	855
	7	17					2	7.96		77.2
		+				***********				
		+	**********							
		<del> </del>								
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				***************************************		***************************************				
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		*********						***************************************		
		***********		***********						
									4	
nte O		*********		************					-	
ents:Odour	S (YES / (NO))	NAPL/F	SH (YES / NO	N Shoes at						
d: :3	4		SH (YES I NO	, oneen (YE	S / NOP	Steady State	Achie	ved((VFe V	100	
~	High	SA	Gad					1.59	10)	
By:										
f	MMP		Remarks:							
ted:	27/11/1	C4	- Steady state	conditions						
	-///	'	- Difference in and SWL stable - Minimum 3 me	the pH less tha	n 0.2 unit:	s, difference la	th-			
By:	6/11/0		- Minimum 3 m	ALLIOCID QLBMQC	own	OILOG II	1 1116 C	onductiveity is	es than 1	0%
				14-107-0-1-						



**Calibration Documentation** 



### **PID FIELD CALIBRATION FORM**

Client: Johnstaff Projects Ptu	Ud
Project: Proposed Min Wa	the Building
Location: Coulburn Street, Main	· Campus, Liverpool Hospital, Liverpool, NSW
Job Number: E 328378D	
	PID
	Date of last factory
Make: MiniPace Model: 2000	Unit: Erren   calibration: 17/7/19
Date of calibration: 25/11/19	Name of Calibrator: AUB
Calibration gas: Iso-butylene	Calibration Gas Concentration: 100.0 ppm
Measured reading: 100 ppm	Error in measured reading: ± ppm
Measured reading Acceptable (Yes/No):	
	PID
	Date of last factory
Make: Minitae Model: 2000	Unit: Green calibration: 17/7/19
Date of calibration: 2/12/19	Name of Calibrator: MMP
Calibration gas: Iso-butylene	Calibration Gas Concentration: 100.0 ppm
Measured reading: /6つ ppm	Error in measured reading: ± ppm
Measured reading Acceptable (Yes/No):	
	PID
	Date of last factory
Make: Minipae Model: 2000	Unit: Green calibration: 17/7/19
Date of calibration: 10/12/19	Name of Calibrator: KT
Calibration gas: Iso-butylene	Calibration Gas Concentration: 100.0 ppm
Measured reading: /oo ppm	Error in measured reading: ± ppm
Measured reading Acceptable (Yes/No):	
	PID
	Date of last factory
Make: Model:	Unit: calibration:
Date of calibration:	Name of Calibrator:
Calibration gas: Iso-butylene	Calibration Gas Concentration: 100.0 ppm
Measured reading: ppm	Error in measured reading: ± ppm
Measured reading Acceptable (Yes/No):	
	PID
	Date of last factory
Make: Model:	Unit: calibration:
Date of calibration:	Name of Calibrator:
Calibration gas: Iso-butylene	Calibration Gas Concentration: 100.0 ppm
Measured reading: ppm	Error in measured reading: ± ppm
Measured reading Acceptable (Yes/No):	



#### **WATER QUALITY METER CALIBRATION FORM**

Client: John Staff Projects Au	(td							
Project: Proposed Main Works	Berleline							
Location: Goullann Street Main	Campus, Corpool Hapital, Licepool NSW							
Job Number: £3283780								
	DISSOLVED OXYGEN							
Make:	Model: Agua DY							
Date of calibration: 28/11/19	Name of Calibrator: AM /MMP							
Span value: 70% to 130%								
Measured value: 122								
Measured reading Acceptable (Yes/No):								
	рН							
Make: Orion	Model: Fow Ar							
Date of calibration: 28/4/61	Name of Calibrator: AM/MMP							
Buffer 1: Theoretical pH = 7.01± 0.01	Expiry date: 8/20 Lot No: 332 234							
Buffer 2: Theoretical pH = 4.01± 0.01	Expiry date: $\frac{2}{2}$ Lot No: $3254/8$							
Measured reading of Buffer 1: 6-92								
Measured reading of Buffer 2: 3.93								
Slope:	Measured reading Acceptable (Yes/No):							
	EC							
Make: Orion	Model: Four Star							
Date: 28/11/19 Name of Calib	orator: /m /mm? Temperature: 32. °C							
Calibration solution: Cordneticity Standard	Expiry date: 5/26 Lot No: 32 9753							
Theoretical conductivity at temperature (see solu								
Measured conductivity: /ζςτ μS/cm	Measured reading Acceptable (Yes/No):							
	REDOX							
Make: Orion	Model: Four Star							
Date of calibration: 28/11/19	Name of Calibrator: AM /MMP							
Calibration solution: ORP Fest School	Expiry date: 1/24 Lot No: 382.2							
Theoretical redox value: 240n								
Measured redox reading: 322 mV	Measured reading Acceptable (Yes/No):							



### **WATER QUALITY METER CALIBRATION FORM**

Client: Johnstaff Projects Pfa	(4)						
David and the state of the stat	Building						
Location: Coulbin Street, Man Garpers	Liverpool Mospital Leverpool, NSW						
Job Number: E328378p							
DI	ISSOLVED OXYGEN						
Make:	Model: Agus DV						
Date of calibration: 1/12 19	Name of Calibrator: AM						
Span value: 70% to 130%							
Measured value: 96%							
Measured reading Acceptable (Yes/No):							
	рН						
Make: Orion	Model: Four Star						
Date of calibration: 11-12-19	Name of Calibrator: Am						
Buffer 1: Theoretical pH = 7.01± 0.01	Expiry date: 8/26 Lot No: 332234						
Buffer 2: Theoretical pH = 4.01± 0.01	Expiry date: 6/26 Lot No: 3254/8						
Measured reading of Buffer 1: 7.14							
Measured reading of Buffer 2: 4.33							
Slope:	Measured reading Acceptable (Yes/No):						
	EC						
Make: Orion	Model: Four State						
Date: // /2 · /9 Name of Calibr	rator: Arı Temperature: 20 °C						
Calibration solution: Conductivity Standard	Expiry date: 5/10 Lot No: 329753						
Theoretical conductivity at temperature (see soluti	ion container): /278 μS/cm						
Measured conductivity: //33 μS/cm	Measured reading Acceptable (Yes)/No):						
	REDOX						
Make: Orion	Model: Fow Star						
Date of calibration: //・/2・/ つ	Name of Calibrator: Am						
	Expiry date: 1/24 Lot No: 3822						
Theoretical redox value: 240m							
Measured redox reading: 212 mV	Measured reading Acceptable (Yes/No):						



Asbestos Air Fibre Monitoring Results (28/11/2019)

### Air Monitoring Certificate



Clearsafe Environmental Solutions Pty Ltd

9 Industrial Road, Unanderra NSW 2526

info@clearsafe.com.au

1300 042 962

**Report Number:** 40-11120-01-AM

**Monitoring Date: Received Date:** 28/11/2019

**Analysis Date:** 29/11/2019 **Report Date:** 29/11/2019

Site Address: Liverpool Hospital, Goulburn Street

28/11/2019

Liverpool NSW 2170 **Client Contact:** James Dang

**Client Name:** Beasy Pty Ltd Sampled By: Ben Stork

**Client Address:** 16 Orchardleigh St **Approved Counter:** Nathan Crouch

> Yennora NSW 2161 Approved Signatory: Luke Heckenberg

**Test Method:** Airborne fibre monitoring in accordance with the Guidance Note on the Membrane Filter

Method for Estimating Airborne Asbestos Fibres [NOHSC:3003(2005)] and Clearsafe method

SOP.AM.01.

Notes: The results contained within this report relate only to the samples tested. This report should not

be copied, presented or reviewed except in full.

Sample Number	Location	Code*	Tir On	ne Off	Airf On	low Off	Fibres	Fields	Conc.**
40-11120/1	South eastern exclusion zone, eastern boundary on light post	5	07:14	15:02	1.02	1.02	0	100	<0.01
40-11120/2	South eastern exclusion zone, northern boundary on parking post	5	07:16	15:04	1.02	1.02	1	100	<0.01
40-11120/3	North eastern exclusion zone, southern boundary on light post	5	17:17	15:05	1.02	1.02	1	100	<0.01
40-11120/4	North western exclusion zone, southern boundary on light post	5	17:19	15:07	1.02	1.02	0	100	<0.01
40-11120/5	Field Blank	6					0	100	N/A

* Sample Codes:

1 - Asbestos removal 5 - Background 6 - Blank Sample 2 - Bag-out 3 - Enclosure dismantling 7 - Fibre Count Only 4 - Clearance 8 - Personal monitoring



#### NATA Accredited Laboratory No. 18542

Accredited for compliance with ISO/IEC 17025 - Testing. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian / national standards.

40-11120-01-AM Page 1 of 1

^{**} Concentration in Fibres/mL of air



**Appendix I: Interim Asbestos Control Information** 



Asbestos Air Fibre Monitoring Results Provided by SWSLHD



93 Beattie Street Balmain NSW 2041 Australia T. 02 9555 9034 | F. 02 9555 9035 info@airsafe.net.au | www.airsafe.net.au ABN 36 609 424 946

#### **TEST REPORT**

September 3, 2019

South Western Sydney Local Health District Locked Bag 7279 LIVERPOOL BC, NSW 1871

Your Reference: Liverpool Hospital - 1-5 Campbell Street, Liverpool

Job Number: 47292

Attention: David Ryan

Dear David

In accordance with your instructions, Airsafe conducted air monitoring for airborne asbestos fibres at the above site.

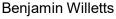
The following samples were processed on the dates indicated.

Samples: 2 Filters
Date of Sampling: 02/09/19
Date of Analysis: 03/09/19
Date of Preliminary Report Sent: Not Issued

The results are contained in the following pages of this report.

Should you have any queries regarding this report please contact the undersigned.

Yours faithfully AIRSAFE OHC PTY LTD



Approved Counter and Signatory





PROJECT: Liverpool Hospital – 1-5 Campbell Street, Liverpool JOB NO: 47292

Sample No	Location/Reference	Time		Total Time	Air Flow	Fields	Fibres	Concentration
	Location/Reference	On	Off	[min]	Average [L/min]	rieius	ribres	(Fibres/mL)
47292-1	Temporary barrier fence – south side	0944	1514	330	2.0	100	0	<0.01
47292-2	Temporary barrier fence – north side	0945	1515	330	2.0	100	0	<0.01

Method: Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos

Fibres [NOHSC: 3003 (2005)] and in-house method AS101 - Membrane Filter

Method for Estimating Airborne Asbestos Fibres.

Sampling: All samples have been taken by Airsafe personnel in accordance with the sampling

plan detailed in method AS101.

**Quality Control:** A field blank is taken and analysed for each batch of samples.

**Note:** Times are provided for customer reference only and do not form part of the facility's

accreditation for volume measurement.

The results relate only to the samples tested. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national

standards.

**Environmental Conditions:** Background air monitoring around sidewalk on south side of parking lot P2.

**Comment:** These calculated concentrations are less than the reporting limit of 0.01 fibres/mL for

control and exposure monitoring as stated in the Guidance Note on the Membrane

Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)].

Disclaimer: N/A





Site Photograph Showing Temporary Capping at JKE136
Provided by SWSLHD





Note: Photograph provided by SWSLHD, showing the barricading and temporary capping of the formerly exposed soils in the area surrounding sampling location JKE136.



**Appendix J: Guidelines and Reference Documents** 



Acid Sulfate Soils Management Advisory Committee (ASSMAC), (1998). Acid Sulfate Soils Manual

Australian and New Zealand Environment Conservation Council (ANZECC), (2000). Australian and New Zealand Guidelines for Fresh and Marine Water Quality

Canadian Council of Ministers of the Environment, (1999). Canadian soil quality guidelines for the protection of environmental and human health: Benzo(a)Pyrene (1997)

CRC Care, (2011). Technical Report No. 10 – Health screening levels for hydrocarbons in soil and groundwater Part 1: Technical development document

Contaminated Land Management Act 1997 (NSW)

Department of Land and Water Conservation, (1997). 1:25,000 Acid Sulfate Soil Risk Map Series

Managing Land Contamination, Planning Guidelines SEPP55 – Remediation of Land (1998)

National Health and Medical Research Council (NHMRC), (2018). National Water Quality Management Strategy, Australian Drinking Water Guidelines 2011

NSW Department of Environment and Conservation, (2007). Guidelines for the Assessment and Management of Groundwater Contamination

NSW EPA, (1995). Contaminated Sites Sampling Design Guidelines

NSW EPA, (2014). Waste Classification Guidelines - Part 1: Classifying Waste

NSW EPA, (2015). Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997

NSW EPA, (2017). Guidelines for the NSW Site Auditor Scheme, 3rd Edition

NSW Office of Environment and Heritage (OEH), (2011). Guidelines for Consultants Reporting on Contaminated Sites

National Environment Protection Council (NEPC), (2013). National Environmental Protection (Assessment of Site Contamination) Measure 1999 as amended (2013)

Olszowy, H., Torr, P., and Imray, P., (1995). Trace Element Concentrations in Soils from Rural and Urban Areas of Australia. Contaminated Sites Monograph Series No. 4. Department of Human Services and Health, Environment Protection Agency, and South Australian Health Commission

Protection of the Environment Operations Act 1997 (NSW)

State Environmental Planning Policy No.55 – Remediation of Land 1998 (NSW)

World Health Organisation (WHO), (2008). Petroleum Products in Drinking-water, Background document for the development of WHO Guidelines for Drinking Water Quality

Western Australia Department of Health, (2009). Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia