

9 December 2025  
Ref. E26870.E14.001\_Rev1

LFD Concord Pty Ltd  
Level 1, 51 Walker Street  
**Sydney NSW 2060**

EI Australia  
Suite 6.01, 55 Miller Street  
PYRMONT, NSW, 2009

ABN 42 909 129 957

E [service@eiaustralia.com.au](mailto:service@eiaustralia.com.au)  
W [www.eiaustralia.com.au](http://www.eiaustralia.com.au)  
T 02 9516 0722

## **Re: Letter on Acid Sulfate Soils Assessment for 1-7 Burton Street, 3B-11 Loftus Street and 10-12 Gipps Street, Concord NSW**

EI Australia (EI) have been engaged by LFD Concord Pty Ltd ('the client') to prepare this letter presenting our findings of an Acid Sulfate Soil (ASS) assessment for the property at 1-7 Burton Street, 3B-11 Loftus Street and 10-12 Gipps Street, Concord NSW ('the site').

The purpose of this assessment is to evaluate the potential for Actual or Potential Acid Sulfate Soils (AASS/PASS) to be present at the site, and to comment on whether any further investigation, management, or mitigation measures are required to support the proposed redevelopment of the site.

This letter will accompany the Development Application (DA) for the proposed redevelopment, which is to involve the demolition of existing houses at the site for the construction of three residential apartment buildings; Tower A of 30 Levels, Tower B of 30 levels, and Tower C of 13 levels. Towers B and C in the northern half of site will have a common 4 level basement car park requiring excavations of 13m to 17m deep. Tower A in the southern half of the site will not have a basement car park.

The site is located approximately nine kilometres west of the Sydney central business district (CBD), within the local government area (LGA) of City of Canada Bay Council (**Figure 1, Appendix A**). It covers a total area of approximately 9,189m<sup>2</sup> (**Figure 2, Appendix A**), being comprised of Lot 1 in DP167854, Lots A to C in DP335952, Lots 1 and 2 in DP67122 and Lots 1 to 8 in DP14112. At this time of this assessment, the land was occupied by residential properties.

This assessment is based on the architectural drawings provided by the client, a desktop review of ASS risk maps and from previous EI investigation of the site as follows:

- DA Concept Architectural drawings prepared by Rothelowman – Project No. 223181, revision 7, dated 12 November 2025;
- Site survey plan prepared by LTS Surveyors – Referenced 52169 001DT, Sheet 1 to 13 of 13, dated 5 December 2023. The datum in the survey plan is in Australian Height Datum (AHD), hence all Reduced Levels (RL) mentioned in this report are henceforth in AHD.
- EI (2025), Geotechnical Investigation, Report Ref. E26870.G03\_Rev1, dated 9 December 2025.

Based on a review of publicly available ASS risk maps, the following is noted:

- With reference to the 1:25 000 scale *Prospect/Parramatta River Acid Sulfate Soil Risk Map* (Murphy CL, 1997), the subject land lies within an area with no known occurrence of ASS risk.
- The *Canada Bay Local Environmental Plan 2013* - ASS risk maps indicate that the site is situated within a Class 5 ASS risk area, meaning it represents land where ASS are unlikely at the surface, but may be present at depth and can be disturbed by deeper excavation or groundwater changes. The nearby Concord Oval (approx. 130m east) is mapped within a Class 2 ASS risk area,

indicating PASS or AASS may be found within 1 metre of the natural ground surface, and disturbance of these soils can potentially create environmental or structural risks.

The geotechnical investigation completed for the site (EI, 2025) describes the general site lithology as comprising sandy clay/silty clay filling (to approximately of 2.1 metres below ground level [mBGL]), overlying residual silty clays, followed by siltstone and sandstone bedrock to the maximum depth of investigation of 25.13 mBGL (please refer to borehole logs in **Appendix B**).

Observations made during the site inspection and geotechnical investigation, together with a review of aerial photography and topographic maps, were assessed against various geomorphic or site criteria consistent with those described by Ahern et al. (1998)<sup>1</sup> to evaluate the potential for ASS to occur at the site. These geomorphic or site criteria that are potential indicators of ASS are presented below in **Table 1**.

**Table 1 Geomorphic or Site Criteria that are Potential Indicators of Acid Sulfate Soils**

<b>Geomorphic and Site Features</b>	<b>Site Presence of Features</b>
Holocene Sediments	Not present
Soil horizons less than 5 mAHD	Not present
Marine / estuarine sediments or tidal lakes	Not present
Coastal wetlands; backwater swamps; waterlogged or scaled areas; inter-dune swales or coastal sand dunes	Not present
Dominant vegetation is mangroves, reeds, rushes and other swamp or marine tolerant species	Not present
Geologies containing sulphide bearing material	Not present
Deep (>10 m) older (Pleistocene or Holocene) estuarine sediments	Not present

Based on the above lines of evidence, the potential presence of ASS at the site is considered unlikely and further ASS related investigation or assessment is considered unwarranted.

Although the site is not considered to be affected by ASS, it is recommended that all excavation and construction activities at the site are monitored to ensure that any ASS are not encountered during construction. Signs that may indicate the presence of ASS may include (not limited to):

- Noticeable sulphur dioxide or hydrogen sulphide odours;
- Soils change colour into a greyish and/or greenish tone;
- Oxidised ASS will often contain yellow and orange mottling;
- Presence of jarosite, pyrite, estuarine sediments;
- Black or dark grey sulfidic horizons.

Should any of the above indicators be present during construction or other signs of potential ASS are observed, excavation work on the site is to stop and an environmental consultant should be contacted to determine what actions are required to be taken before work may recommence.

<sup>1</sup> Ahern C R, Stone, Y, and Blunden B (1998) *Acid Sulfate Soils Assessment Guidelines*. In *Acid Sulfate Soils Manual*, Acid Sulfate Soil Management Advisory Committee (ASSMAC), Wollongbar, NSW, Australia, 28 August 1998.

Should you have any queries regarding this letter, please contact the undersigned on (02) 9516-0722.

For and on behalf of

**EI Australia**

*Lance Chen*

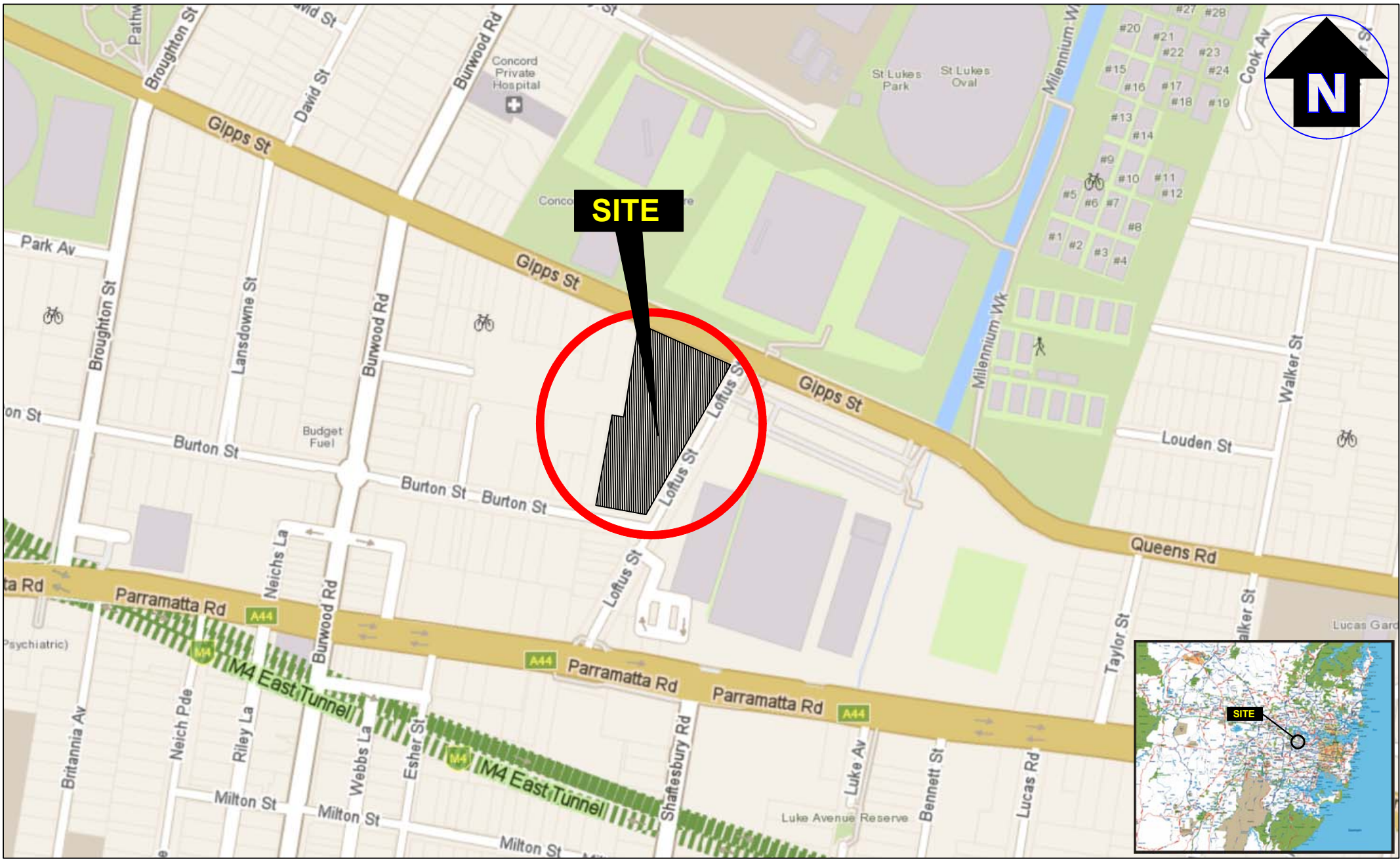
**Lance Chen**  
Environmental Engineer



**Alex Syriatowicz**  
Principal Environmental Scientist

## **Appendix A**

### **Figures**



Drawn:	J.F.
Approved:	T.W.
Date:	01-09-25
Scale:	Not To Scale

**LFD Concord Pty Ptd**  
 Letter on Acid Sulfate Soils  
 Cnr Loftus and Gipps Street, Concord NSW  
 Site Locality Plan



Map Source: Survey Plan

**LEGEND (All Locations are Approximate)**

- - - Site boundary
- - - Basement boundary
- Borehole/monitoring well location
- ⊕ Borehole location

  
**eiaustralia**  
 Practical Solutions for Built Environments  
 Suite 6.01, 55 Miller Street, PYRMONT 2009  
 Ph (02) 9516 0722 Fax (02) 9518 5088

Drawn:	J.F.
Approved:	S.T.P.
Date:	03-12-25

**LFD Concord Pty Ltd**  
 Letter on Acid Sulfate Soils  
 Cnr Loftus and Gipps Street, Concord, NSW  
 Sampling Location Plan

Figure:  
2  
 Project: E26870.E14.001

## **Appendix B**

### **Bore logs**



# BOREHOLE LOG

BH ID: BH1M

**Location** Burton, Loftus and Gipps St, Concord, NSW  
**Client** LFD Concord Pty Ltd  
**Job No.** E26870.G03  
**Sheets** 1 of 3

**Started** 25 August 2025  
**Completed** 25 August 2025  
**Logged By** JF **Date** 25 August 2025  
**Review By** STP **Date** 15 October 2025

**Drilling Contractor** Geosense Drilling Engineers **Surface RL** ≈9.00 m (AHD) **Northing** 6250871.6 (MGA 2020 Zone 56)  
**Plant** Comacchio Geo 205 **Inclination** 90° **Easting** 325013.1 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH1M_0.50-0.95 SPT 0.50-0.95 3,5,5 N=10  BH1M_1.50-1.80 SPT 1.50-1.80 5,20/150 mm HB N=R	█	0.00	[Pattern]	9.00	FILL: Silty CLAY: medium plasticity, dark grey brown, trace of root fibres and brick fragments	M > PL	-	FILL
			█	0.30	[Pattern]	8.70	From 0.30m, medium plasticity, grey brown			
			█	0.60	[Pattern]	8.40	Silty CLAY: high plasticity, light grey mottled red brown, trace of root fibres	M > PL	St	RESIDUAL SOIL
			█	1.30	[Pattern]	7.70	Silty CLAY: medium plasticity, light grey mottled red brown, with fine to medium grained ironstone gravel	M < PL	H	
			█	1.80	[Pattern]	7.20	SILTSTONE: dark grey, with iron indurated bands, inferred low strength	-	-	WEATHERED ROCK
				2.08	[Pattern]	6.92	<i>Log continued on next page.</i>			
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.





# BOREHOLE CORE LOG

BH ID: BH1M

<b>Location</b>	Burton, Loftus and Gipps St, Concord, NSW	<b>Started</b>	25 August 2025
<b>Client</b>	LFD Concord Pty Ltd	<b>Completed</b>	25 August 2025
<b>Job No.</b>	E26870.G03	<b>Logged By</b>	JF <b>Date</b> 25 August 2025
<b>Sheets</b>	3 of 3	<b>Review By</b>	STP <b>Date</b> 15 October 2025
<b>Drilling Contractor</b>	Geosense Drilling Engineers	<b>Surface RL</b>	≈9.00 m (AHD)
<b>Plant</b>	Comacchio Geo 205	<b>Inclination</b>	90°
		<b>Northing</b>	6250871.6 (MGA 2020 Zone 56)
		<b>Easting</b>	325013.1 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING			
									VL <sub>0-1</sub>	L <sub>0-3</sub>	M <sub>1</sub>	H <sub>3</sub>	VH <sub>10</sub>	EH		30	100	300	1000
NMLC	90%	100	90	11		-5.05	SILTSTONE: dark grey, distinctly laminated at 0°-5°	FR							7.72: JT 20° PR SM CN				
				12			8.15: BP 5° SM CN		8.75: JT 20° PR SM CN	8.77: JT 50° PR SM CN	8.83: JT 55° SM CN	9.41: BP 10° RO Infilled	9.42: JT 80° PR SM CN	10.61: JT 60° CU SM CN	10.71: BP 5° PR SM CN		10.87: BP 0° PR SM CN	10.95: JT 40° PR SM CN	
				13											11.93: JT 40° PR SM CN				
				14											12.54: JT 45° PR SM CN				
				14.05		-5.05	From 14.05m, As above, but with some light grey laminae								12.60: JT 20° PR SM CN				
				15											12.79: BP 0° PR SM Clay VN				
				16											12.83: BP 0° PR SM CN				
				16		-7.11	Terminated at 16.11m.								12.84: JT 80° PR SM CN				
				17											13.10-13.22: CZ				
				18											13.22: BP 5° PR SM CN				
				19											13.39: BP 0° PR SM Clay VN				
				20											13.41-13.44: CS				
															13.51: JT 60° IR SM CN				
															13.75: JT 60° PR RO CN				
															14.20: BP 0° PR SM OP				
															15.11: JT 20° PR SM CN				
															15.59: BP 0° PR SM CN				
															15.62: BP 5° PR SM CN				
															15.73: BP 0° PR SM CN				
															15.83: BP 0° PR SM CN				

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



# MONITORING WELL LOG

BH ID: BH1M

<b>Location</b> Burton, Loftus and Gipps St, Concord, NSW	<b>Started</b> 25 August 2025
<b>Client</b> LFD Concord Pty Ltd	<b>Completed</b> 25 August 2025
<b>Job No.</b> E26870.G03	<b>Logged By</b> JF <b>Date</b> 25 August 2025
<b>Sheets</b> 1 of 1	<b>Review By</b> STP <b>Date</b> 15 October 2025

<b>Drilling Contractor</b> Geosense Drilling Engineers	<b>Surface RL</b> ≈9.00 m (AHD)	<b>Northing</b> 6250871.6 (MGA 2020 Zone 56)
<b>Plant</b> Comacchio Geo 205	<b>Inclination</b> 90°	<b>Easting</b> 325013.1 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m(AHD))	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
	BH1M_0.50-0.95 SPT 0.50-0.95 3,5,5 N=10	0.00		9.00	FILL: Silty CLAY: medium plasticity, dark grey brown, trace of root fibres and brick fragments	M > PL	Grout 0.10m - 1.30m	Well Stickup = -0.10m (RL 8.90m)
	BH1M_1.50-1.80 SPT 1.50-1.80 5,20/150 mm HB N=R	0.30		8.70	From 0.30m, medium plasticity, grey brown			
		0.60		8.40	Silty CLAY: high plasticity, light grey mottled red brown, trace of root fibres	M < PL		
		1.30		7.70	Silty CLAY: medium plasticity, light grey mottled red brown, with fine to medium grained ironstone gravel		Bentonite 1.30m - 4.50m	
		1.80		7.20	SILTSTONE: dark grey, with iron indurated bands, inferred low strength	-		
		2.08		6.90	SILTSTONE: light grey and red brown, distinctly laminated at 0°- 5°			
		2.55		6.40	SILTSTONE: banded dark grey and brown, laminated at 0°- 5°			
		3.12		5.86	SILTSTONE: dark grey, distinctly laminated at 0°-5°			0.10m - 9.10m PVC casing (50mm Ø)
		5.86		5.86				
		14.05		5.05	From 14.05m, As above, but with some light grey laminae			
		15.05		5.05				9.10m - 15.10m PVC screen (50mm Ø)
		16.11		5.11	Terminated at 16.11m.		Bentonite 15.10m - 15.30m Sand 15.30m - 16.11m	

18/09/2025

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



# BOREHOLE LOG

BH ID: BH2

<b>Location</b> Burton, Loftus and Gipps St, Concord, NSW	<b>Started</b> 26 August 2025
<b>Client</b> LFD Concord Pty Ltd	<b>Completed</b> 26 August 2025
<b>Job No.</b> E26870.G03	<b>Logged By</b> JF <b>Date</b> 26 August 2025
<b>Sheets</b> 1 of 3	<b>Review By</b> STP <b>Date</b> 15 October 2025

<b>Drilling Contractor</b> Geosense Drilling Engineers	<b>Surface RL</b> ≈7.60 m (AHD)	<b>Northing</b> 6250889.2 (MGA 2020 Zone 56)
<b>Plant</b> Comacchio Geo 205	<b>Inclination</b> 90°	<b>Easting</b> 325031.8 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m(AHD))	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
ADT		BH2_0.10-0.30	█	0.00	[Pattern]	7.60	FILL: Sandy CLAY: low plasticity, dark grey brown, fine to coarse grained sand, trace of steel, concrete and brick fragments			FILL
		BH2_0.50-0.95 SPT 0.50-0.95 2.2,3 N=5	█	0.80	[Pattern]	6.80	FILL: Silty CLAY: medium plasticity, grey and dark grey, with fine to medium grained sand and ironstone gravels, petrol odour	M > PL	-	
		BH2_1.50-1.95 SPT 1.50-1.95 0,0,2 N=2	█	1	[Pattern]					
		BH2_2.10-2.30	█	2	[Pattern]	5.50	Silty CLAY: medium plasticity, light grey mottled red brown, with thin ironstone bands	M = PL	St	RESIDUAL SOIL
		BH2_3.00-3.20 SPT 3.00-3.20 17,9/50 mm HB N=R	█	2.60	[Pattern]	5.00	Silty CLAY: medium plasticity, light grey, with iron indurated bands			
		BH2_4.50-4.85 SPT 4.50-4.85 5,11,11/50 mm HB N=R	█	3	[Pattern]			M < PL	H	
				5.10	[Pattern]	2.50	SILTSTONE: dark grey, inferred very low strength			WEATHERED ROCK
				6	[Pattern]	1.53	<i>Log continued on next page.</i>			
				6.07	[Pattern]					
				7	[Pattern]					
				8	[Pattern]					
				9	[Pattern]					
				10	[Pattern]					

This log should be read in conjunction with EI Australia's accompanying explanatory notes.





# BOREHOLE CORE LOG

BH ID: BH2

<b>Location</b> Burton, Loftus and Gipps St, Concord, NSW	<b>Started</b> 26 August 2025
<b>Client</b> LFD Concord Pty Ltd	<b>Completed</b> 26 August 2025
<b>Job No.</b> E26870.G03	<b>Logged By</b> JF <b>Date</b> 26 August 2025
<b>Sheets</b> 3 of 3	<b>Review By</b> STP <b>Date</b> 15 October 2025

<b>Drilling Contractor</b> Geosense Drilling Engineers	<b>Surface RL</b> ≈7.60 m (AHD)	<b>Northing</b> 6250889.2 (MGA 2020 Zone 56)
<b>Plant</b> Comacchio Geo 205	<b>Inclination</b> 90°	<b>Easting</b> 325031.8 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING			
									VL <sub>0-1</sub>	L <sub>0-3</sub>	M <sub>1</sub>	H <sub>3</sub>	VH <sub>10</sub>	EH		30	100	300	1000
NMLC	85%	100	99	11		-5.65	SANDSTONE: fine grained, light grey, with grey and dark grey laminae, and some thin siltstone bands, indistinctly cross bedded at 0°-15°	FR							10.06-10.08: CS				
		100	100	13		-6.95	SANDSTONE: fine to medium grained light grey, with bands of distinct cross bedding at 0°- 20°		12.37: BP 0° PR SM Clay VN	13.40: BP 0° PR SM CN	14.28: BP 0° PR SM Clay VN	14.62: BP 0° PR SM Clay VN							
		100	100	15		-7.59	From 14.55m, 100mm thick band of carbonaceous laminae		Terminated at 15.19m.										

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



# BOREHOLE LOG

BH ID: BH3

**Location** Burton, Loftus and Gipps St, Concord, NSW  
**Client** LFD Concord Pty Ltd  
**Job No.** E26870.G03  
**Sheets** 1 of 4

**Started** 26 August 2025  
**Completed** 27 August 2025  
**Logged By** JF **Date** 27 August 2025  
**Review By** STP **Date** 15 October 2025

**Drilling Contractor** Geosense Drilling Engineers **Surface RL** ≈9.00 m (AHD) **Northing** 6250918.8 (MGA 2020 Zone 56)  
**Plant** Comacchio Geo 205 **Inclination** 90° **Easting** 325014.7 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH3_0.10-0.30	█	0.00	[Pattern]	9.00	FILL: Silty CLAY: medium to high plasticity, dark grey brown, trace of rootlets and fine to medium grained sand and igneous gravel	M > PL	-	FILL
		BH3_0.50-0.95 SPT 0.50-0.95 2.2,3 N=5	█	0.80	[Pattern]	8.20	Silty CLAY: high plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel	M > PL	F	RESIDUAL SOIL
		BH3_1.50-1.85 SPT 1.50-1.85 8,13,5/50 mm HB N=R	█	1.90	[Pattern]	7.10	SILTSTONE: grey, with iron indurated bands, inferred low strength	M < PL	H	
					3.17		5.83			
				3						
				3.71			<i>Log continued on next page.</i>			
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.







# BOREHOLE CORE LOG

BH ID: BH3

<b>Location</b> Burton, Loftus and Gipps St, Concord, NSW	<b>Started</b> 26 August 2025
<b>Client</b> LFD Concord Pty Ltd	<b>Completed</b> 27 August 2025
<b>Job No.</b> E26870.G03	<b>Logged By</b> JF <b>Date</b> 27 August 2025
<b>Sheets</b> 4 of 4	<b>Review By</b> STP <b>Date</b> 15 October 2025

<b>Drilling Contractor</b> Geosense Drilling Engineers	<b>Surface RL</b> ≈9.00 m (AHD)	<b>Northing</b> 6250918.8 (MGA 2020 Zone 56)
<b>Plant</b> Comacchio Geo 205	<b>Inclination</b> 90°	<b>Easting</b> 325014.7 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING				
									VL <sub>0-1</sub>	L <sub>0-3</sub>	M <sub>1</sub>	H <sub>3</sub>	VH <sub>10</sub>	EH		30	100	300	1000	3000
NMLC	95%	100	100	20.29		-11.2 9	SANDSTONE: fine to medium grained, light grey, with grey and dark grey laminae, indistinctly becoming distinctly cross bedded at 0°-5°	FR	VL <sub>0-1</sub>	L <sub>0-3</sub>	M <sub>1</sub>	H <sub>3</sub>	VH <sub>10</sub>	EH	20.29: BP 5° PR RO Clay VN  20.72: BP 0° PR SM CN   22.13: BP 0° PR SM CN					
		100	100	25.13		-16.1 3			Terminated at 25.13m.											

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



# BOREHOLE LOG

BH ID: BH4M

**Location** Burton, Loftus and Gipps St, Concord, NSW  
**Client** LFD Concord Pty Ltd  
**Job No.** E26870.G03  
**Sheets** 1 of 3

**Started** 28 August 2025  
**Completed** 28 August 2025  
**Logged By** JF **Date** 28 August 2025  
**Review By** STP **Date** 15 October 2025

**Drilling Contractor** Geosense Drilling Engineers **Surface RL** ≈7.20 m (AHD) **Northing** 6250974.1 (MGA 2020 Zone 56)  
**Plant** Comacchio Geo 205 **Inclination** 90° **Easting** 325088.6 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH4M_0.10-0.30		0.00		7.20	FILL: Silty CLAY: medium plasticity, dark brown, trace of rootlets	M > PL	-	FILL
		BH4M_0.50-0.80 SPT 0.50-0.95 3,5,5 N=10		0.80		6.40	Silty CLAY: high plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel	M > PL	St	RESIDUAL SOIL
		BH4M_0.80-0.95 BH4M_1.00-1.20		1.20		6.00	Silty CLAY: medium plasticity, light grey and red brown, with fine to medium grained ironstone gravel	M < PL	H	
		BH4M_1.50-1.85 SPT 1.50-1.85 9,18,8/50 mm HB N=R		1.90		5.30	SILTSTONE: dark grey, with iron indurated and extremely weathered bands, inferred very low strength	-	-	WEATHERED ROCK
		BH4M_3.00-3.25 SPT 3.00-3.25 19,14/100 mm HB N=R		3.32		3.88				
				4			<i>Log continued on next page.</i>			
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.





# BOREHOLE CORE LOG

BH ID: BH4M

<b>Location</b>	Burton, Loftus and Gipps St, Concord, NSW	<b>Started</b>	28 August 2025
<b>Client</b>	LFD Concord Pty Ltd	<b>Completed</b>	28 August 2025
<b>Job No.</b>	E26870.G03	<b>Logged By</b>	JF <b>Date</b> 28 August 2025
<b>Sheets</b>	3 of 3	<b>Review By</b>	STP <b>Date</b> 15 October 2025
<b>Drilling Contractor</b>	Geosense Drilling Engineers	<b>Surface RL</b>	≈7.20 m (AHD)
<b>Plant</b>	Comacchio Geo 205	<b>Inclination</b>	90°
		<b>Northing</b>	6250974.1 (MGA 2020 Zone 56)
		<b>Easting</b>	325088.6 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING			
									VL <sub>0-1</sub>	L <sub>0-3</sub>	M <sub>1</sub>	H <sub>3</sub>	VH <sub>10</sub>	EH		30	100	300	1000
NMLC	70%	100	98	10.21		-3.01	SANDSTONE: Interbedded sandstone, fine grained, light grey and siltstone, dark grey, laminated at 0°-10° SANDSTONE: fine to medium grained, light grey, with grey and dark grey laminae, with some thin bands of siltstone distinctly cross bedded at 0°-30°	FR	VL <sub>0-1</sub>	L <sub>0-3</sub>	M <sub>1</sub>	H <sub>3</sub>	VH <sub>10</sub>	EH	10.04: JT 40° PR SM CN 10.16-10.18: XWS 10.23: JT 70° PR RO CN				
		12	13	13.80		-6.60	SANDSTONE: medium to coarse grained, light grey, with grey and dark grey laminae, indistinctly cross bedded at 0°-10°		12.15: JT 20° PR SM CN 12.37: BP 5° PR RO Clay VN 13.03: JT 15° PR SM CN 13.79: BP 0° PR RO Clay VN										
		100	100	15.41		-8.21	Terminated at 15.41m.												

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



# MONITORING WELL LOG

BH ID: BH4M

**Location** Burton, Loftus and Gipps St, Concord, NSW  
**Client** LFD Concord Pty Ltd  
**Job No.** E26870.G03  
**Sheets** 1 of 1

**Started** 28 August 2025  
**Completed** 28 August 2025  
**Logged By** JF **Date** 28 August 2025  
**Review By** STP **Date** 15 October 2025

**Drilling Contractor** Geosense Drilling Engineers **Surface RL** ≈7.20 m (AHD) **Northing** 6250974.1 (MGA 2020 Zone 56)  
**Plant** Comacchio Geo 205 **Inclination** 90° **Easting** 325088.6 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
	BH4M_0.10-0.30 BH4M_0.50-0.80 SPT 0.50-0.95 3,5,5 N=10 BH4M_0.80-0.95 BH4M_1.00-1.20 BH4M_1.50-1.85 SPT 1.50-1.85 9,18,8/50 mm HB N=R	0.00 0.80 1.20 1.96		7.2 6.4 6.0 5.3	FILL: Silty CLAY: medium plasticity, dark brown, trace of rootlets Silty CLAY: high plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel Silty CLAY: medium plasticity, light grey and red brown, with fine to medium grained ironstone gravel SILTSTONE: dark grey, with iron indurated and extremely weathered bands, inferred very low strength	M > PL M < PL	Sand 0.10m - 2.40m	Well Stickup = -0.10m (RL 7.10m)
	BH4M_3.00-3.25 SPT 3.00-3.25 19,14/100 mm HB N=R	3 3.32 4 5 5.54 6 6.67 7 8 8.19 8.96 10 10.21 11 12 13 13.86 14 15 16 17 18 19 20		3.8 3.8 1.6 0.5 -0.99 -1.70 -3.01 -6.60 -8.21	SILTSTONE: dark grey and red brown, indistinctly laminated at 0°-5° NO CORE: 1130mm thick SILTSTONE: dark grey, with grey and light grey laminae, distinctly laminated at 0°-5° SILTSTONE: grey, indistinctly laminated SANDSTONE: Interbedded sandstone, fine grained, light grey and siltstone, dark grey, laminated at 0°-10° SANDSTONE: fine to medium grained, light grey, with grey and dark grey laminae, with some thin bands of siltstone distinctly cross bedded at 0°-30° SANDSTONE: medium to coarse grained, light grey, with grey and dark grey laminae, indistinctly cross bedded at 0°-10° Terminated at 15.41m.	-	Bentonite 2.40m - 7.20m  Sand 7.20m - 15.41m	0.10m - 9.10m PVC casing (50mm Ø)  9.10m - 15.10m PVC screen (50mm Ø)

18/09/2025

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



# BOREHOLE LOG

BH ID: BH5M

**Location** Burton, Loftus and Gipps St, Concord, NSW  
**Client** LFD Concord Pty Ltd  
**Job No.** E26870.G03  
**Sheets** 1 of 3

**Started** 29 August 2025  
**Completed** 29 August 2025  
**Logged By** JF **Date** 29 August 2025  
**Review By** STP **Date** 15 October 2025

**Drilling Contractor** Geosense Drilling Engineers **Surface RL** ≈10.70 m (AHD) **Northing** 6251027.0 (MGA 2020 Zone 56)  
**Plant** Comacchio Geo 205 **Inclination** 90° **Easting** 325001.0 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH5M_0.10-0.30	█	0.00	[Pattern]	10.70	FILL: Silty SAND: fine to medium grained, dark grey, with trace of fine to medium grained igneous gravel and rootlets	M	-	FILL
		BH5M_0.50-0.95 SPT 0.50-0.95 3,5,7 N=12	█	0.30	[Pattern]	10.40	Silty CLAY: high plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel	M > PL	St	RESIDUAL SOIL
		BH5M_1.50-1.70 SPT 1.50-1.70 9,8/50 mm HB N=R	█	1.70	[Pattern]	9.00	SILTSTONE: dark grey, with iron indurated bands, inferred low to medium strength	M < PL	H	
					2.22		8.48	<i>Log continued on next page.</i>		
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.







# MONITORING WELL LOG

BH ID: BH5M

**Location** Burton, Loftus and Gipps St, Concord, NSW **Started** 29 August 2025  
**Client** LFD Concord Pty Ltd **Completed** 29 August 2025  
**Job No.** E26870.G03 **Logged By** JF **Date** 29 August 2025  
**Sheets** 1 of 1 **Review By** STP **Date** 15 October 2025

**Drilling Contractor** Geosense Drilling Engineers **Surface RL** ≈10.70 m (AHD) **Northing** 6251027.0 (MGA 2020 Zone 56)  
**Plant** Comacchio Geo 205 **Inclination** 90° **Easting** 325001.0 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
18/09/2025 ▼	BH5M_0.10-0.30	0.00		10.70	FILL: Silty SAND: fine to medium grained, dark grey, with trace of fine to medium grained igneous gravel and rootlets	M	Bentonite 0.10m - 5.50m	Well Stickup = -0.10m (RL 10.60m)
	BH5M_0.50-0.95 SPT 0.50-0.95 3,5,7 N=12	0.30		10.70	Silty CLAY: high plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel	M > PL		
	BH5M_1.50-1.70 SPT 1.50-1.70 9,8/50 mm HB N=R	1.70		9.00	SILTSTONE: dark grey, with iron indurated bands, inferred low to medium strength	M < PL		
		2.22		8.48	SILTSTONE: dark grey and brown, distinctly laminated at 0°-5°	-		
		4.71		6.99	From 4.71m, As above, but dark grey, with some brown bands			
		7.72		2.98	SILTSTONE: dark grey, with some grey and light grey laminae, laminated at 0°-5°			
		10.46		0.30	SILTSTONE: grey, indistinctly laminated			
		11.05		-0.35	SANDSTONE: Interbedded sandstone, fine grained, light grey and siltstone laminite, dark grey laminated at 0°-10°			
		13.13		-2.43	SANDSTONE: fine to medium grained, light grey, with some siltstone bands, distinctly cross bedded at 0°-10°			
		15.53		-4.83	SANDSTONE: fine to medium grained, light grey with some grey laminae, indistinctly cross bedded at 0°-10°			
				-5.63	Terminated at 16.33m.			
							10.0m - 16.0m PVC screen (50mm Ø)	

This log should be read in conjunction with EI Australia's accompanying explanatory notes.