

Site investigation – site safety induction, supervision of drilling, collection of soil samples, installation of monitoring wells, development of monitoring wells, site observations.

- Sherwood Arboretum – progress two soil bores and install groundwater monitoring wells, collect representative soil samples and record observations.
- Secret Forest – progress two soil bores and install groundwater monitoring wells, and record observations.
- Both sites – conduct groundwater gauging, recording field parameters (temperature, pH/ORP, conductivity, dissolved oxygen), collection of representative samples, and installation of water level loggers.
- Conduct follow up groundwater gauging and download of loggers at one (July 2023), six (December 2023) and 12 (June 2024) months post installation.

Brief factual letter report (this report) of findings, borehole logs, groundwater parameters, photolog. CLS notes further groundwater level gauging and logger downloads are scheduled after the issue of this factual report.

2. Site details

Both sites are positioned within public open space, in close proximity to a water body. Site details are summarised in Table 1-1 below, with a photolog provided in Attachment D.

Table 1-1: Site details and setting

Description	Information
Sherwood Arboretum	
Site Name/Ref	Sherwood Arboretum (D0305)
Site Address	Jolimont Street, Sherwood, 4075
Cadastral Descriptions	Lot 1 RP841288, Lot 1 RP125701, Lot 74 RP29710
Registered Owner	Brisbane City Council
City Plan Land Classifications	Open Space (district)
Current Site Uses	Parkland, open space, children's playgrounds, Bushcare activities (Friends of Sherwood Arboretum)
Current infrastructure	Toilet block, Playground
Current Leases	No current leases
Surrounding Land Use	North - Residential properties East – Pond, then residential properties South – Residential properties West – Park, then Brisbane River
Acid Sulfate Soils	Portions of the site are mapped as having a low potential for ASS
EMR Status	Lots comprising the park are not listed on the EMR or BCC Coreland
Secret Forest	
Site Name/Ref	Oxley Creek Common – Secret Forest
Site Address	428 Sherwood Road, Rocklea, 4106
Cadastral Descriptions	Lot 4 SP192423
Registered Owner	The State of Queensland
City Plan Land Classifications	Open space (recreation)

Description	Information
Current Site Uses	Southeast Queensland Regional Plan (Shaping SEQ)
Current infrastructure	Amenities block
Current leases	NA
Surrounding land use	North – Residential/open space East – Urban grazing South – Oxley Creek then parkland and residential West – Oxley Creek then school (Corinda State High)
Acid sulfate soils	The site is mapped in low to very high potential for ASS
EMR Status	The site is listed on the EMR for Stock dips and Spray yards (Coreland)

3. Intrusive investigation

Drilling, sampling, and monitoring well installation was undertaken 6 June 2023. A summary of soil field observations is provided in Table 3-1. Environmental soil bore logs are provided in Attachment C and a photograph summary is provided in Attachment D.

Table 3-1 Soil field observation summary

Borehole / Monitoring well ID	Depth (m BGL)	Material description	Groundwater encountered (m BGL)
BH01 / MW01/23 (Sherwood arboretum)	0 – 0.2	Fill: sandy silt, firm to stiff, dry	
	0.2 – 6.2	Natural: silty clay with organic material, very stiff to hard, dry to moist	6.2
	6.2 – 8.1	Natural: silty clay with jarosite, very stiff to hard, wet layer then moist to end of hole.	
BH02 / MW02/23 (Sherwood arboretum)	0 – 0.3	Fill: sandy silt, firm to stiff, dry	
	0.3 – 4.1	Natural: silty clay with organic material, very stiff to hard, moist	4.1
	4.1 – 6.0	Wet between 4.1 – 4.4	
BH03 / MW03/23 (Secret Forest)	0 – 2.2	Natural: silty clay, stiff to very stiff, moist	
	2.2 – 4.0	Natural: silty clay, firm to stiff, becoming firm to soft at depth	3.0
BH04 / MW04/23 (Secret Forest)	0 – 2.2	Natural: silty clay, very stiff to hard, dry	
	2.2 – 4.0	Natural: silty clay, firm to stiff, becoming firm to soft at depth, moist then wet then moist at depth	3.0

3.1 Groundwater

Groundwater monitoring wells were installed and developed during the soil bore drilling works (6 June 2023). Groundwater gauging, monitoring and sampling was undertaken on 12 June 2023. Water level loggers, including a pressure and temperature sensor datalogger were installed at this time. A summary of groundwater parameters and observations are provided in Table 3-2. All monitoring wells were installed flush to ground level.

Table 3-2 Groundwater field parameters and observations

Well ID	Time (sampled)	SWL ¹ (m bTOC)	Total depth (m bTOC ²)	Depth of water column (m)	pH	Conductivity (µS/cm)	Temperature (C°)	Dissolved Oxygen (%Sat)	Oxidation Reduction Potential (mV)*	Observations
MW01	12:30	3.465 / 3.69 (sampled)	7.873	4.408	6.16	28120	19.3	33.8	286.1	Clear then turbid brown, bailed approximately 18 L to dry. Allowed ~1.5 hr for recharge before sampling.
MW02	12:50	1.77 / 1.96 (sampled)	5.935	4.165	6.56	3857	18.2	27.9	271.6	Clear then turbid brown, bailed approximately 20 L to dry. Allowed ~1 hr for recharge before sampling.
MW03	14:30	1.735 / 2.95 (sampled)	3.94	2.205	6.58	17663	18.0	16.9	57.4	Very turbid grey. Bailed approximately 6 L to dry. Allowed ~45 min for recharge before sampling.
MW04	14:45	2.26 / 2.99 (sampled)	3.913	1.653	4.69	21546	18.5	41.7	316.9	Slight turbidity grey. Bailed approximately 5 L to dry. Allowed ~45 min for recharge before sampling.

Notes:

¹ SWL: standing water level² m BTOC: metres below top of casing

*Corrected to standard reference electrode

3.2 Laboratory analysis and quality assurance/quality control (QA/QC)

All soil and groundwater samples were sent to National Association of Testing Authorities (NATA) registered laboratory (ALS Pty Ltd) with appropriate COC and storage. Sample selection and analysis was chosen by the client.

Laboratory QA/QC comprised of chain-of-custody (COC) requirements, sample integrity and holding times, use of acceptable National Association of Testing Authorities (NATA) registered laboratory methods and laboratory QA/QC results. For this project, the Laboratory QA/QC is considered acceptable. Laboratory analysis certificates and QA/QC certificates are provided in Attachment E.

3.3 Soil chemistry

BH01/23 was strongly acid (pH 5.3) in the upper 1 m with subsoil pH increasing to neutral (pH 7.2 to 7.4). Electrical conductivity increased with depth from non-saline (73 $\mu\text{S/cm}$) at 0.3 m BGL to extremely saline (1020 $\mu\text{S/cm}$) at depth (2.3 m BGL).

BH02/23 was of neutral pH (7.2) and slightly saline (154 $\mu\text{S/cm}$) at 0.3 m BGL; however, pH decreased and salinity increased at 0.8 m BGL to medium acid (pH 5.8) and extremely saline (1660 $\mu\text{S/cm}$). pH increased to moderately alkaline (pH 8.1), and salinity decreased to highly saline (678 $\mu\text{S/cm}$) within the sampled 1.8 m BGL, and at 2.8 m BGL pH was mildly alkaline (pH 7.6) and slightly saline (228 $\mu\text{S/cm}$).

No soil chemistry from Secret Forest was analysed during this investigation.

3.4 Water chemistry

At the Sherwood Arboretum, groundwater was variable between the two locations. Field pH values showed slightly acidic conditions (pH 6.16 to 6.56) in both wells; however, the field electrical conductivity at MW02/23 indicated brackish water (3857 $\mu\text{S/cm}$), while the electrical conductivity of MW01/23 indicated highly saline water (28120 $\mu\text{S/cm}$).

Groundwater was slightly acidic (6.58 pH) to very strongly acidic (4.69pH) at Secret Forest, with saline groundwater conditions (17663 $\mu\text{S/cm}$ to 21546 $\mu\text{S/cm}$).

4. Summary

Results from field investigations undertaken are summarised below.

4.1 Sherwood Arboretum

Clay fill material was encountered at both locations and ranged from 0.2 to 0.3 m BGL with no waste observed.

Natural clay material was firm to very hard, with high plasticity, dry becoming moist, then wet where groundwater was encountered at approximately 6.2 and 4.1 m BGL. The clay contained minor fine sand and gravel to approximately 4.1 m BGL. Jarosite was observed from approximately 6 m BGL to the end of the hole at 8.1 m BGL in BH01/23, indicating prior oxidation of reduced inorganic sulfur and actual acid sulfate soil.

Groundwater was encountered at 6.2 and 4.1 m BGL in MW01/23 and MW02/23 respectively; however, water levels recovered to 3.465 m BGL and 1.770 m BGL respectively, indicating a confined (possibly partially confined) aquifer. Soil chemistry was variable, ranging from strongly acid to moderately alkaline, and non-saline to extremely saline. Soil chemistry at BH01/23 appeared to gradually increase in alkalinity and salinity with depth; however, BH02/23 was variable throughout the analysed profile. Groundwater chemistry was variable with elevated electrical conductivity and associated ions in MW01/23 in comparison to MW02/23, although both locations were slightly acidic in pH.

4.2 Secret Forest

Natural clay material was present from surface. The soil was stiff to very stiff, with high to medium plasticity and was moist becoming wet at approximately 3 m BGL.

Groundwater was encountered at 3 m BGL in both wells; however, water levels recovered to 1.735 m BGL and 2.260 m BGL for MW03/23 and MW04/23 respectively, indicating a confined (possibly partially confined) aquifer. Groundwater was slightly acidic (6.58 pH) to very strongly acidic (4.69pH) at Secret Forest, with saline groundwater conditions (17663 $\mu\text{S}/\text{cm}$ to 21546 $\mu\text{S}/\text{cm}$).

4.3 Further programmed works

Water level logger downloads are forecasted for July 2023, December 2023 and June 2024. Each download will result in a graph comparing standing water level to rainfall which will be issued via memo to ■■■■■ or nominated person.

4.4 Recommendations

As part of subsequent gauging works, it is recommended that groundwater permeability testing (slug tests) be undertaken to measure hydraulic conductivity to assess the aquifer recharge. This can be undertaken at the time of logger download to reduce site mobilisations.

It is recommended that an additional logger be installed within the Sherwood Arboretum pond to look at whether the groundwater is hydraulically connected to the pond and the influence of rainfall on both pond and groundwater levels.

5. Limitations

City Projects Office has performed services for this project in accordance with current professional standards; no guarantees are either expressed or implied.

It should be noted that this investigation does not constitute a full contaminated site assessment and therefore this report should not be treated as such. There is no investigation that is thorough enough to preclude the presence of material that presently, or in the future, may be considered hazardous at the site. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under regulatory standards that require investigation/remediation. This report has been prepared based on data from the indicated sources, site inspections and sampling/analysis results. Laboratory analyses at sample points may not be representative of all conditions across the site. Inferences about the nature and continuity of conditions arising from the sample points, where made, cannot be guaranteed.

Opinions and judgements expressed herein, which are based on City Projects Office understanding and interpretation of current regulatory standards, should not be construed as legal opinions. This document and the information contained herein have been prepared solely for the use of the client and regulatory authorities. Any reliance on this report by any other third parties shall be at such party's sole risk.

Information obtained from interviews, site inspections and contained in the documentation reviewed has been assumed to be correct and complete. City Projects Office does not accept any liability for misrepresentation of information or for items not visible, accessible, nor able to be inspected at the sites at the time of the site visits. This report has been prepared for the particular investigation described and for internal use within Brisbane City Council only; no responsibility is accepted for the use of any part of the report in any other context or for any other purpose.

I trust this information is sufficient, should you have any questions or require further information please contact Inge Hirsiger or myself on 07 3178 9932.

Regards,

[Redacted]
[Redacted]
Contaminated Land Services

[Redacted]
[Redacted]
Contaminated Land Services

Attachment List

Attachment A: Monitoring locations

Attachment B: Methodologies

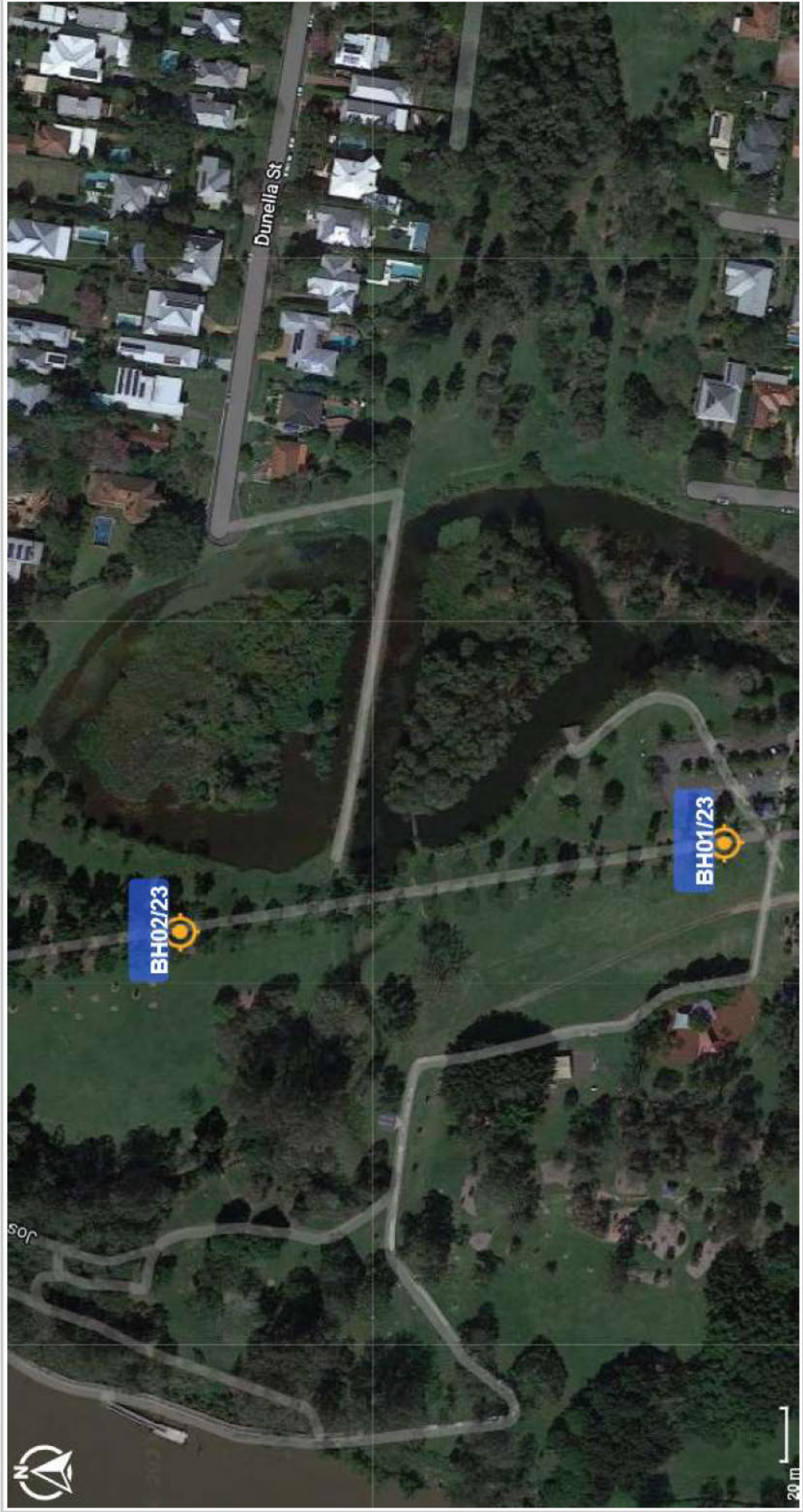
Attachment C: Borehole logs

Attachment D: Site photographs

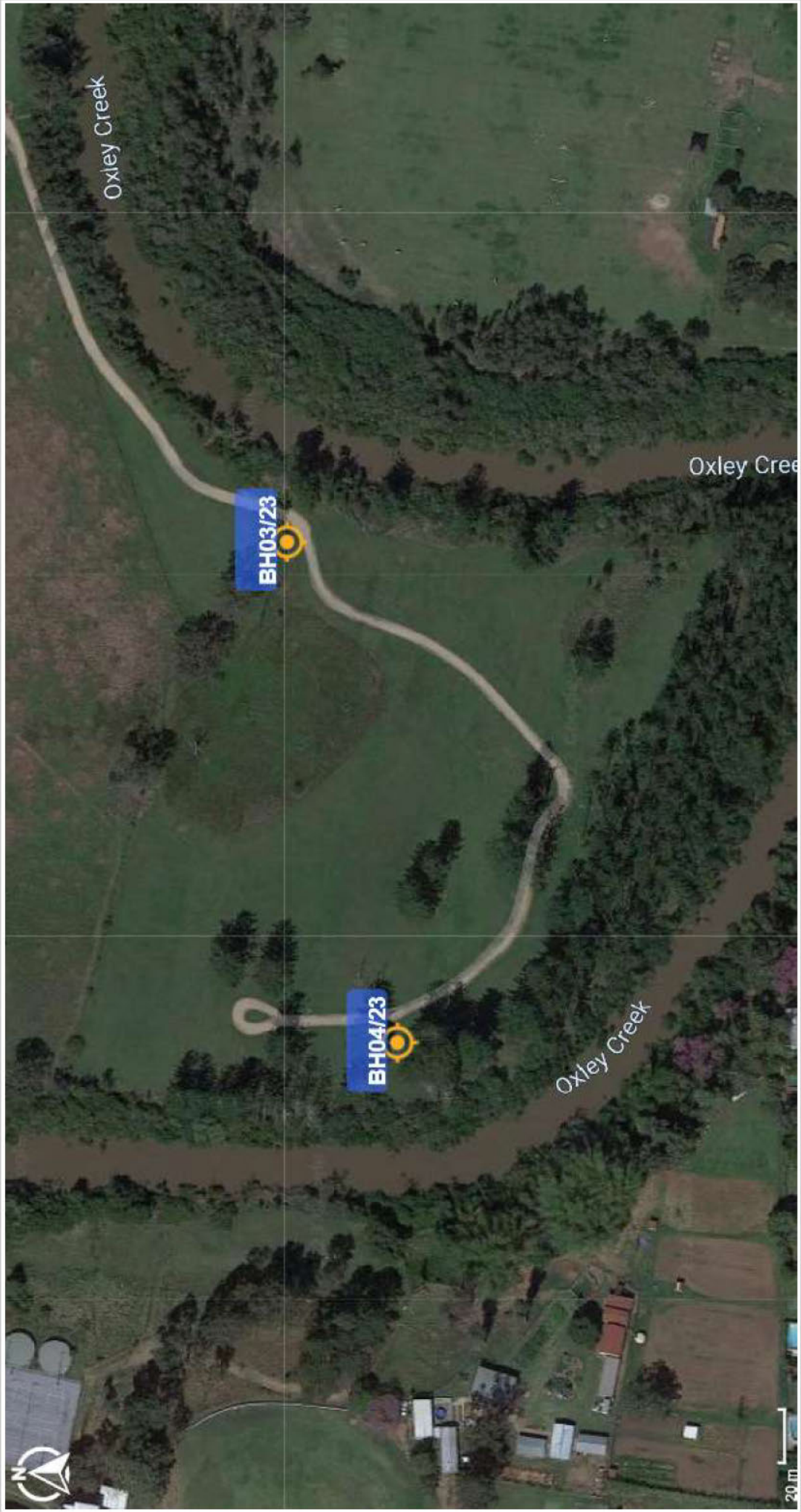
Attachment E: Official laboratory certificates

Attachment A Figures

Figure 1: Investigation area and sample locations



		 +61 734 038 888		 266 George St, Brisbane City QLD 4000, Australia		 info@brisbane.qld.gov.au		Map description		Figure 1 - Sherwood Arboretum - Monitoring Well Installation	
								Site location		Sherwood Arboretum & Secret Forest	
								Client		Brisbane City Council	
								Project name		Sherwood Arboretum and Secret Forest	
								Project No		GK15	
										Scale	
										Not to scale	



 Brisbane City Council  +61 734 038 888  266 George St, Brisbane City QLD 4000, Australia  info@brisbane.qld.gov.au		Map description Figure 2 - Secret Forest - Monitoring Well Installation	
Site location Sherwood Arboretum & Secret Forest		Project name Sherwood Arboretum and Secret Forest	
Client Brisbane City Council		Project No GK15	
		Scale Not to scale	

Attachment B Methodology

This assessment was developed with reference to the following technical documents:

ANZG, 2018. *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia (under revision)

www.waterquality.gov.au/anz-guidelines

ANZECC & ARMCANZ 2000. *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Canberra: Australian and New Zealand Environment and Conservation Council (ANZECC) and Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ).

Australian Government, 2013. *Guidelines for groundwater quality protection in Australia: National Water Quality Management Strategy*, Department of Agriculture and Water Resources, Canberra, March. CC BY 3.0

DES, 2018. *Monitoring and Sampling Manual: Environmental Protection (Water) Policy*. Brisbane: Department of Environment and Science, Queensland Government.

National Environment Protection (Assessment of the Site Contamination) Measure 1999, Amendment Measure 2013, No. 1 (NEPM 2013). National Environmental Protection Council.

National Uniform Drillers Licensing Committee (NUDLC), 2020. *Minimum Construction Requirements for Water Bores in Australia*, 4th edition, National Water Commission

QLD Environmental Protection Act 1994

QLD Work Health and Safety Act 2011

QLD Work Health and Safety Regulation 2011

Standards Australia, 2017. *Geotechnical Site Investigations*, AS 1726:2017, Standards Australia, NSW

In accordance with the scope of works and the above references, the following methodology was adopted.

Table B1 Sampling methodology

Media	Methodology
Groundwater	Prior to sample collection, monitoring wells were gauged, purged and water quality parameters (dissolved oxygen, redox potential, electrical conductivity, temperature and pH) were measured and observations detailing colour and odours or sheens were recorded. All reusable sampling equipment was decontaminated between samples by washing with phosphate-free detergent and rinsing with de-ionised water.
Groundwater and leachate	Water samples were collected manually using disposable polyethylene bailers and disposable, nitrile gloves. Adapter tubes were used to transfer water from the bailers (to minimise potential for turbulence and loss of volatiles) to the laboratory-prepared sample bottles with corresponding preservative.
Surface water	Where possible, water samples were collected directly into an unpreserved laboratory sample bottle prior to decanting into laboratory prepared bottles with appropriate preservatives for required analysis. Where required, samples were collected using a telescopic pole with attached sampling vessel. Samples were decanted into laboratory prepared bottles with appropriate preservatives for required analysis.

Media	Methodology
Standing water level (loggers)	Solinst level loggers were installed and set to record a standing water level (SWL) reading every 30 minutes with data downloads to be completed quarterly. Level loggers were attached to the well cap with string and extended to the base of the well. At each download the loggers were reset and programmed to restart recording later that same day. Dipped SWL and time was also recorded at each download. A barologger was also installed in one well and attached to the well cap; however, on a shorter length of string ensuring it remained above the SWL to appropriately measure barometric pressure within the well. This was also set to record every 30 minutes. Data retrieved from the loggers was completed with the Solinst program. Data was compensated for barometric influence using data gathered from the in situ barologger. This barometrically compensated data was then converted to m AHD using the surveyed well top of casing and in field SWL reading to determine a correction factor for the data.
All samples	For preservation in accordance with NEPM (2013), samples were stored in an ice filled esky and couriered to the laboratory with the signed chain of custody form filled out with the required analysis.

Attachment C Borehole logs



Borehole Record: BH01/23

Project: Sherwood Arboretum and Secret Forest
Location: Sherwood Arboretum & Secret Forest
Loc Comment: Sherwood Arboretum
Job No: GK15

Position: Easting: 497448.6
 Northing: 6954567.2
Elevation: Not Surveyed
Inclination: +90 deg

Date Drilled: 06/06/2023
Drill Rig: IVECO DTS10
Drill Supplier: APOD
Logged/Checked: S. Watson/T. George

Drilling Method	Depth (m)	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Water	Well Diagram	Remarks
								Environmental			Remarks
Solid Auger	0.2	Fill		SM	Fill sandy SILT (SM) : firm to stiff, non-plastic, orange brown, fine grained sand, trace fine sized gravel, inorganic, dry.	D	F-St				Surface cover = grass Flush well cover
	0.5	Natural		CI	Natural silty CLAY (CI) : very stiff to hard, medium plasticity, grey mottled orange brown, trace fine sized gravel, trace fine grained sand, moist to dry.	M-D	VSI-H				Soil moisture content 12.8%
	1.3										Soil moisture content 11.9%
	1.5	Natural		CI	As above, but moist, (with organic material),	M	VSI-H				Soil moisture content 14.3%
	2.0										Soil moisture content 18.8%
	2.5										
	3.0										
	3.5										
	4.0										
	4.5										
Solid Auger	5.0										
	5.5										
	6.0										
	6.2	Natural		CH	As above, but (CH) : high plasticity, wet to moist, (with jarosite),	W-M	VSI-H				Water inflow Water outflow
	6.5										
	7.0										
	7.5										
	8.0										End cap Hole collapse
	8.5										
	9.0										

BH01/23 Terminated at 8.1m



Borehole Record: BH02/23

Project: Sherwood Arboretum and Secret Forest
Location: Sherwood Arboretum & Secret Forest
Loc Comment: Sherwood Arboretum
Job No: GK15

Position: Easting: 497415.7
 Northing: 6954766.7
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/06/2023
Drill Rig: IVECO DTS10
Drill Supplier: APOD
Logged/Checked: S. Watson/T. George

Drilling Method	Depth (m)	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Water	Well Diagram	Remarks
								Environmental			Remarks
Solid Auger	0.3	Fill		ML	Fill sandy SILT (ML) : firm to stiff, non-plastic, brown, fine grained sand, trace fine sized gravel, inorganic, dry.	D	F-St				Surface cover - grass Flush surface cover Soil moisture content 15.5%
	0.5	Natural		CH	Natural silty CLAY (CH) : very stiff, high plasticity, brown, trace fine sized gravel, trace fine grained sand, moist.	M	VSt				Soil moisture content 20.3%
	1.7	Natural		CH	As above, but very stiff to hard, grey mottled orange brown, (with organic material).	M	VSt-H		12/06/23		Soil moisture content 23.4%
	4.1	Natural		CH	Natural sandy CLAY (CH) : firm, high plasticity, grey mottled orange brown, fine grained sand, wet.	W	F				Water inflow
	4.4	Natural		CH	Natural silty CLAY (CH) : very stiff to hard, high plasticity, grey mottled orange brown, with fine grained sand, trace fine sized gravel, moist, (trace quartz inclusions).	M	VSt-H				Water outflow
	6.0				BH02/23 Terminated at 6m						End cap Soil collapse
	6.5										



Borehole Record: BH03/23

Project: Sherwood Arboretum and Secret Forest
Location: Sherwood Arboretum & Secret Forest
Loc Comment: Secret Forest
Job No: GK15

Position: Easting: 499139.2
 Northing: 6953056.3
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/06/2023
Drill Rig: IVECO DTS10
Drill Supplier: APOD
Logged/Checked: S. Watson/T. George

Drilling Method	Depth (m)	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples		Water	Well Diagram	Remarks
								Environmental				Remarks
Solid Auger		Natural		CH	Natural silty CLAY (CH) : stiff to very stiff, high plasticity, brown, with fine grained sand, moist.	M	S-VSt					Surface cover - grass Flush well cover installed
	0.5											
	1											
	1.2	Natural		CH	Natural silty CLAY (CH) : stiff to very stiff, high plasticity, brown mottled pale grey, moist.	M	S-VSt					
	1.5											
	2											
	2.2	Natural		CI	Natural silty CLAY (CI) : firm to stiff, medium plasticity, pale grey with light orange, moist, (with brown and orange organic matter).	M	F-St					
	2.5											
	3	Natural		CI	As above, but soft to firm, wet to moist, (with brown and orange organic matter).	W-M	S-F					
	3.5											
	4											End cap Soil collapse
					BH03/23 Terminated at 4m							
	4.5											
	5											



Borehole Record: BH04/23

Project: Sherwood Arboretum and Secret Forest
Location: Sherwood Arboretum & Secret Forest
Loc Comment: Secret Forest
Job No: GK15

Position: Easting: 498984.1
 Northing: 6952970.1
Elevation: Not Surveyed
Inclination: -90 deg

Date Drilled: 06/06/2023
Drill Rig: IVECO DTS10
Drill Supplier: APOD
Logged/Checked: S. Watson/T. George

Drilling Method	Depth (m)	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Water	Well Diagram	Remarks
								Environmental			Remarks
Solid Auger		Natural		CH	Natural silty CLAY (CH) : very stiff to hard, high plasticity, brown, dry.	D	VS-H				Surface cover - grass Flush well cover
	-0.5										
	-1										
	-1.5										
	-1.8										
	-2	Natural		CH	Natural silty CLAY (CH) : firm to stiff, high plasticity, mottled brown with red, moist.	M	F-St				
	-2.2	Natural		CI	Natural silty CLAY (CI) : firm to stiff, medium plasticity, pale grey with light orange, moist, (with brown and orange organic matter).	M	F-St		12/06/23		
	-2.5										
	-3	Natural		CI	As above, but soft to firm, wet to moist, (with brown and orange organic matter).	W-M	S-F		Water inflow		
	-3.5										
	-4										End cap Soil collapse
					BH04/23 Terminated at 4m						
	-4.5										
	-5										

Attachment D Photolog



Photo 1: Sherwood Arboretum: view to the north location of BH01/MW01



Photo 2: BH01 from 0.2 to 6.2 m BGL natural silty clay soil with trace sandstone inclusions.



Photo 3: BH01 natural clay soils from 6.2 to 8 m BGL with yellow (jarosite) & orange mottle.



Photo 4: Sherwood Arboretum -view to the south, location of BH02/MW02.



Photo 5: BH02 fill - reworked local soil from surface to 0.3 m BGL then natural silty clay to 1m BGL.



Photo 6: BH02 Natural clay soil with trace clear gravel inclusions at 4.4 to 6 m BGL.

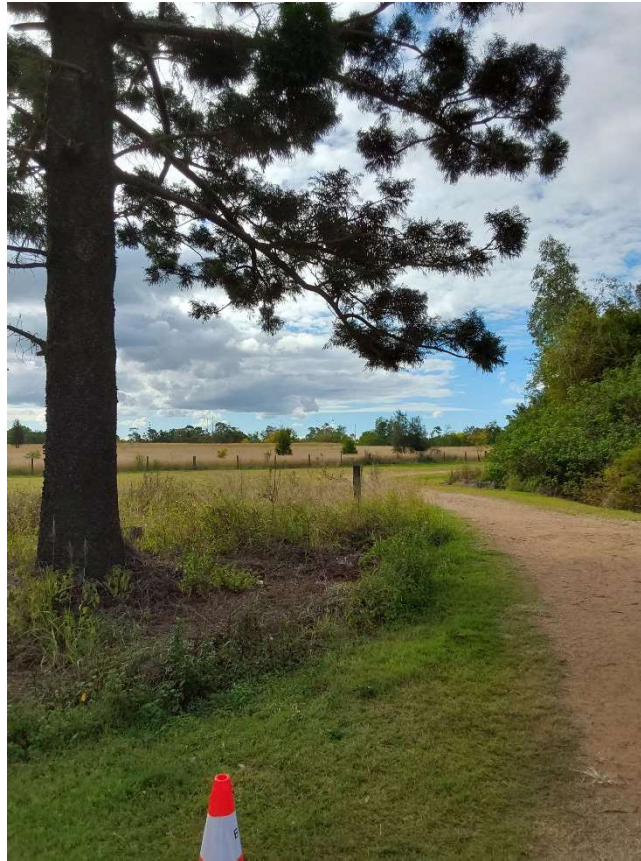


Photo 7: Secret Forest – View to the north of BH03/MW03 location.



Photo 8: Secret Forest – BH03 surface to 1m BGL silty clay soil.

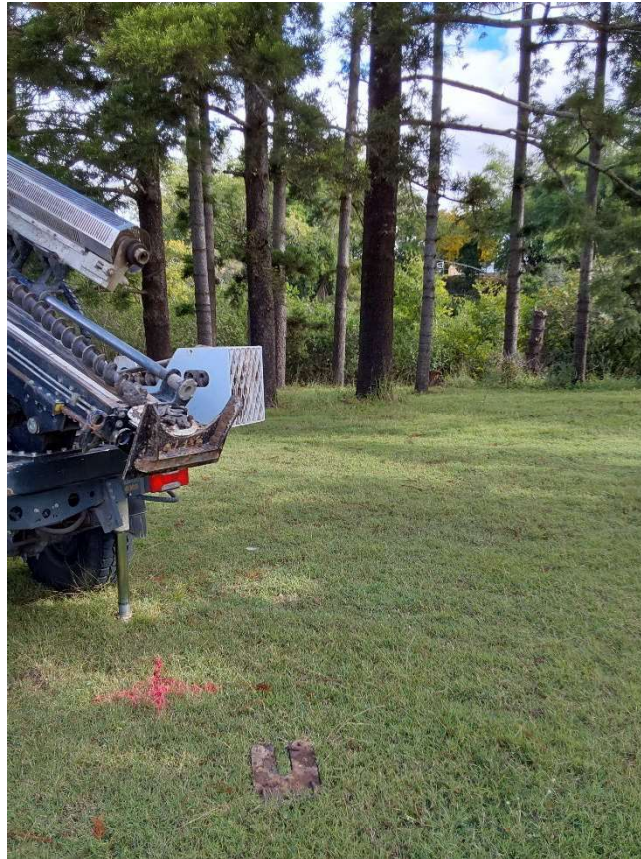


Photo 9: Location BH04/MW04 view to the south-southwest.



Photo 10: BH04 natural silty clay soil from surface to 1 m BGL.



Photo 11: BH04 natural alluvial silty clay soil, with brown and orange organic matter from 2.2 to 4 m BGL.

Attachment E Official laboratory certificates



CHAIN OF CUSTODY

ALS Laboratory: please tick →

Q161 LADE 371 Burnside Road, Burnside SA 5066
Ph: 08 8462 5130 E: sales@als.com.au
DUNDEE 28/4th Street, Dundee QLD 4083
Ph: 07 3243 7222 E: samples@als.com.au
DUNDAS 46 Coleridge Drive, Dundas QLD 4680
Ph: 07 4878 7944 E: dundas@als.com.au

CLIENT: Brisbane City Council		TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):	
OFFICE: Green Square Fortitude Valley		COC QUOTE NO.: EN222	
PROJECT: Sherwood Arboretum & Secret Forest		COUNTRY OF ORIGIN:	
ORDER NUMBER:		CONTACT PH: (07) [REDACTED]	
PROJECT MANAGER: [REDACTED]		SAMPLER MOBILE: [REDACTED]	
SAMPLER: [REDACTED]		EDD FORMAT (or default):	
COC Emailed to ALS? (YES / NO)		RELINQUISHED BY: Scott Watson 6/8/23 1700	
Email: [REDACTED]		DATE/TIME: 4/6/23 12:50	
Email: [REDACTED]		DATE/TIME: Infection Red	

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

LAB USE ONLY		SAMPLE DETAILS		CONTAINER INFORMATION		ANALYSIS REQUIRED INCLUDING SUITES (NR. Suite Codes must be listed to attract suite price)				Additional Information	
		MATRIX: Solid(S) / Water(W)				Where Marks are required, specify Total (unfilled bottle required) or Disposed (if filled bottle required).					
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	NT-1S - Cations: Major Soluble (Ca, Mg, Na, K)	NT-4S - Nitrites N and Nitrates N	IN-4S - pH plus EC (1:5)			
1	BH01_0.0-2	6/06/2023 0:00	Soil	Soil Jar	1						
2	BH01_0.3-0.5	6/06/2023 0:00	Soil	Soil Jar	1	1	1	1			
3	BH01_0.8-1	6/06/2023 0:00	Soil	Soil Jar	1	1	1	1			
4	BH01_1.3-1.5	6/06/2023 0:00	Soil	Soil Jar	1						
5	BH01_1.8-2	6/06/2023 0:00	Soil	Soil Jar	1	1	1	1			
6	BH01_2.3-2.5	6/06/2023 0:00	Soil	Soil Jar	1						
x	BH01_2.8-3 <i>Snk</i>	6/06/2023 0:00	Soil	Soil Jar	1	1	1	1			
7	BH01_3.8-4	6/06/2023 0:00	Soil	Soil Jar	1						
8	BH01_4.3-4.5	6/06/2023 0:00	Soil	Soil Jar	1						
9	BH01_4.8-5	6/06/2023 0:00	Soil	Soil Jar	1						
10	BH01_5.3-5.5	6/06/2023 0:00	Soil	Soil Jar	1						
11	BH01_5.8-6	6/06/2023 0:00	Soil	Soil Jar	1						
TOTAL											

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORC = Nitric Preserved ORC, SH = Sodium Hydroxide/Cu Preserved, S = Sodium Hydroxide/Cu Preserved, AG = Amber Glass Unpreserved Plastic, AP = Airfreight Unpreserved Plastic, V = VOA Vial HCl Preserved, VB = VOA Vial Sodium Bisulphate Preserved, VS = VOA Vial Sulfuric Preserved, AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Speciation bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass, Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag, U = Lugols Iodine Preserved Bottles, STT = Sterile Sodium Thiosulfate Preserved Bottles.

Environmental Division
Brisbane
Work Order Reference
EB2317032

Barcode: [Barcode]

Telephone: +61-7-3243 7222

Approved Date: 09/06/2019



CHAIN OF CUSTODY

ALS Laboratory: please tick →

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Ph: 07 3243 7222 E: alslab@alsglobal.com
DGLADSTONE 18 Cattlebrand Drive, Gladstone QLD 4480
Ph: 07 4978 7222 E: alslab@alsglobal.com

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Ph: 07 4944 0177 E: alslab@alsglobal.com

CLIENT: Brisbane City Council		TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):		FOR LABORATORY USE ONLY (Circle)	
OFFICE: Green Square Fortitude Valley		PROJECT NO GK15		Custody Seal intact? Yes No	
PROJECT: Sherwood Arboretum & Secret Forest		PURCHASE ORDER NO.:		Free Ice / frozen ice bricks present upon receipt? Yes No	
ORDER NUMBER:		COUNTRY OF ORIGIN:		Random Sample Temperature on Receipt: °C	
PROJECT MANAGER:		CONTACT PH: (07) [REDACTED]		Other comment:	
SAMPLER: [REDACTED]		SAMPLER MOBILE: [REDACTED]		RECEIVED BY:	
COC Emailed to ALS? (YES / NO)		EDD FORMAT (or default):		DATE/TIME:	
Email Reports to [REDACTED]		[REDACTED]		DATE/TIME:	
Email Invoice to [REDACTED]		[REDACTED]		DATE/TIME:	

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

LAB ID	SAMPLE DETAILS		CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB Suite Codes must be listed to attract suite price)				Additional Information
	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	NT-1S - Cations: Major Soluble (Ca, Mg, Na, K)	NT-4S - Nitrates N and Nitrates N	IN-4S - pH plus EC (1:5)	
12	BH01_6.3-6.5	6/06/2023 0:00	Soil	Soil Jar	1				
13	BH01_6.8-7	6/06/2023 0:00	Soil	Soil Jar	1				
14	BH01_7.3-7.5	6/06/2023 0:00	Soil	Soil Jar	1				
15	BH01_7.8-8	6/06/2023 0:00	Soil	Soil Jar	1				
16	BH02_0.0-0.2	6/06/2023 0:00	Soil	Soil Jar	1				
17	BH02_0.3-0.5	6/06/2023 0:00	Soil	Soil Jar	1	1	1	1	
18	BH02_0.8-1	6/06/2023 0:00	Soil	Soil Jar	1	1	1	1	
19	BH02_1.3-1.5	6/06/2023 0:00	Soil	Soil Jar	1				
20	BH02_1.8-2	6/06/2023 0:00	Soil	Soil Jar	1	1	1	1	
21	BH02_2.3-2.5	6/06/2023 0:00	Soil	Soil Jar	1				
22	BH02_2.8-3	6/06/2023 0:00	Soil	Soil Jar	1	1	1	1	
TOTAL									

Water Container Codes: F = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide/Cd Preserved; AG = Amber Glass Unpreserved; AP = Air-tight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Air-tight Unpreserved Vial; SG = Sulfuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Fumaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag; LI = Lugols Iodine Preserved Bottles; STT = Sterile Sodium Thiosulfate Preserved Bottles.

CHAIN OF CUSTODY



ALS Laboratory: please tick →

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CHILKATY 1410 Deane Court, Smithton NSW 2354
Ph: 07 4100 0000 E: alschilkaty@als.com.au

CLIENT: Brisbane City Council

OFFICE: Green Square Fortitude Valley

PROJECT: Sherwood Arboretum & Secret Forest PROJECT NO: GK15

ORDER NUMBER: PURCHASE ORDER NO.:

PROJECT MANAGER: CONTACT PH: 07

SAMPLER MOBILE: EDD FORMAT (or default):

COC Emailed to ALS? (YES / NO)

Email: Email:

TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.: EN222

COUNTRY OF ORIGIN:

CONTACT PH: 07

SAMPLER MOBILE: EDD FORMAT (or default):

COC Emailed to ALS? (YES / NO)

Email: Email:

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No

Free ice / frozen ice bricks present upon receipt? Yes No

Random Sample Temperature on Receipt °C

Other comment:

RECEIVED BY: DATE/TIME:

RECEIVED BY: DATE/TIME:

RECEIVED BY: DATE/TIME:

RECEIVED BY: DATE/TIME:

RECEIVED BY: DATE/TIME:

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CHAIN OF CUSTODY



ALS Laboratory: please tick →

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CLIENT: Brisbane City Council

OFFICE: Green Square Fortitude Valley

PROJECT: Sherwood Arboretum & Secret Forest PROJECT NO: GK15

ORDER NUMBER: PURCHASE ORDER NO.:

PROJECT MANAGER: CONTACT PH: 07

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Email: Email:

TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.: EN222

COUNTRY OF ORIGIN:

CONTACT PH: 07

SAMPLER MOBILE: EDD FORMAT (or default):

COC Emailed to ALS? (YES / NO)

Email: Email:

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No

Free ice / frozen ice bricks present upon receipt? Yes No

Random Sample Temperature on Receipt °C

Other comment:

RECEIVED BY: DATE/TIME:

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CHAIN OF CUSTODY



ALS Laboratory: please tick →

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CLIENT: Brisbane City Council

OFFICE: Green Square Fortitude Valley

PROJECT: Sherwood Arboretum & Secret Forest PROJECT NO: GK15

ORDER NUMBER: PURCHASE ORDER NO.:

PROJECT MANAGER: CONTACT PH: 07

SAMPLER MOBILE: EDD FORMAT (or default):

COC Emailed to ALS? (YES / NO)

Email: Email:

TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.: EN222

COUNTRY OF ORIGIN:

CONTACT PH: 07

SAMPLER MOBILE: EDD FORMAT (or default):

COC Emailed to ALS? (YES / NO)

Email: Email:

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No

Free ice / frozen ice bricks present upon receipt? Yes No

Random Sample Temperature on Receipt °C

Other comment:

RECEIVED BY: DATE/TIME:

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CHAIN OF CUSTODY



ALS Laboratory: please tick →

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CLIENT: Brisbane City Council

OFFICE: Green Square Fortitude Valley



CHAIN OF CUSTODY

ALS Laboratory: please tick →

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NEWCASTLE 1000, 1000-1000
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NEWCASTLE 1000, 1000-1000
Ph: 02 4014 2500 E: als@newcastle.com

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NEWCASTLE 1000, 1000-1000
Ph: 02 4014 2500 E: als@newcastle.com
NEWCASTLE 1000, 1000-1000
Ph: 02 4014 2500 E: als@newcastle.com

CLIENT: Brisbane City Council		TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):		FOR LABORATORY USE ONLY (Circle)	
OFFICE: Green Square Fortitude Valley		(Standard TAT may be longer for some tests e.g. Ultra Trace Organics)		Custody Seal Intact? Yes No	
PROJECT: Sherwood Arboretum & Secret Forest		PROJECT NO: GK15		Free ice / frozen ice bricks present upon receipt? Yes No	
ORDER NUMBER:		PURCHASE ORDER NO.:		Random Sample Temperature on Receipt: °C	
PROJECT MANAGER:		CONTACT PH: (07) [REDACTED]		Other comment:	
SAMPLER: [REDACTED]		SAMPLER MOBILE: [REDACTED]		RECEIVED BY:	
COC Emailed to ALS? (YES / NO)		EDD FORMAT (or default):		DATE/TIME:	
Email Reports to: [REDACTED]		DATE/TIME:		DATE/TIME:	
Email invoice to: accounts payable@brisbane.qld.gov.au		DATE/TIME:		DATE/TIME:	

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY		SAMPLE DETAILS		CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price)		Additional Information	
		MATRIX: Solid(S) Water(W)				Where Bottles are required, specify Total (unfilled bottle required) or Discharged (field filled bottle required)			
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (Refer to codes below)	TOTAL BOTTLES	NT-1S - Cations: Major Soluble (Ca, Mg, Na, K)	NT-4S - Nitrates N and Nitrates N	IN-4S - pH plus EC (1:5)	Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
35	BH03_2.8-3	6/06/2023 0:00	Soil	Soil Jar	1				
36	BH03_3.3-3.5	6/06/2023 0:00	Soil	Soil Jar	1				
37	BH03_3.8-4	6/06/2023 0:00	Soil	Soil Jar	1				
38	BH04_0.0-2	6/06/2023 0:00	Soil	Soil Jar	1				
39	BH04_0.3-0.5	6/06/2023 0:00	Soil	Soil Jar	1				
40	BH04_0.8-1	6/06/2023 0:00	Soil	Soil Jar	1				
41	BH04_1.3-1.5	6/06/2023 0:00	Soil	Soil Jar	1				
42	BH04_1.8-2	6/06/2023 0:00	Soil	Soil Jar	1				
43	BH04_2.3-2.5	6/06/2023 0:00	Soil	Soil Jar	1				
44	BH04_2.8-3	6/06/2023 0:00	Soil	Soil Jar	1				
45	BH04_3.3-3.5	6/06/2023 0:00	Soil	Soil Jar	1				
46	BH04_3.8-4	6/06/2023 0:00	Soil	Soil Jar	1				
TOTAL									

Water Container Codes: F = Unpreserved Plastic; N = Nitric Preserved Plastic; QRC = Nitric Preserved QRC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AO = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Stionle Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag; LI = Lugols iodine Preserved Bottle; STT = Stionle Sodium Thiosulfate Preserved Bottle.



CHAIN OF CUSTODY

ALS Laboratory: please tick →

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Ph: 01763 51741 E: chloe@als.co.uk

CLIENT: BCC - C		TURNAROUND REQUIREMENTS: ☒ Standard TAT (List due date):		FOR LABORATORY USE ONLY (Circle)	
OFFICE: Green Square		(Standard TAT may be longer for some tests e.g. Ultra Trace Organics)		Custody Seal Intact? Yes No	
PROJECT: Shardwood		PROJECT NO.:		Free ice / frozen ice blocks present upon receipt? Yes No	
ORDER NUMBER:		PURCHASE ORDER NO.:		Random Sample Temperature on Receipt: °C	
PROJECT MANAGER:		COUNTRY OF ORIGIN:		Other comment:	
CONTACT PH:		SAMPLER MOBILE:		RECEIVED BY:	
COC Enrolled to ALS? (YES / NO)		EDD FORMAT (or default):		DATE/TIME:	
Email Reports to (will default to PM if no other addresses are listed):				DATE/TIME:	
Email Invoice to (will default to PM if no other addresses are listed):				DATE/TIME:	

COMMENT/SPECIAL HANDLING/STORAGE OR DISPOSAL: Quote - EN/222 + Compass										
ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)		CONTAINER INFORMATION			ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (filtered bottle required).				Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	NT-15 Major Sol. Cat.	NT-45 Nitrogen & Nitrate	IN-45 PH + EC	Comments on likely contaminant levels, dilutions, or samples requiring specific OC analysis etc.	
	BH01 0-0-0.1	6-6-23	S		1	1	1	1		
	-0.3-0.5					1	1	1		
	0-8-1.0					1	1	1		
	1.3-1.5									
	1.8-2.0					1	1	1		
	2.3-2.5									
	2.8-3.0					1	1	1		
	BH02 0-0-0.1									
	-0.3-0.5					1	1	1		
	0-8-1.0					1	1	1		
	1.3-1.5									
	1.8-2.0					1	1	1		
	2.3-2.5									
	2.8-3.0									
	TOTAL									