

Appendix C Site Plans

ENVIRONMENTAL AREA

TEMPORARY CONSTRUCTION
SECURITY FENCING
CONTRACTOR TO CONFIRM
EXTENT & LOCATION

KINGSCLIFF
POOL

CONSTRUCTION FENCE LINE OF SIGHT
ON OR INSIDE BOUNDARY ALLOW FOR
TREE REMOVAL. CONTRACTOR TO
CONFIRM EXTENT AND LOCATION

EXISTING ENERGY ASSETS
TO BE DEMOLISHED

TEMPORARY ATF-TYPE FENCE AROUND
EXISTING BUILDINGS UNTIL PERMANENT
CONSTRUCTION FENCE ESTABLISHED

ATF-TYPE FENCE CLOSING
TEMPORARY ACCESS

EXISTING STRUCTURES
TO BE DEMOLISHED

EXISTING TREES TO BE RETAINED.
INDICATIVE LOCATIONS OF TREE
PROTECTION FENCES SHOWN. FINAL
LOCATION TO BE CONFIRMED IN
CONSULTATION WITH THE ARBORIST

ATF-TYPE FENCE CLOSING
OLD ACCESS

EXISTING TREES TO BE RETAINED.
INDICATIVE LOCATIONS OF TREE
PROTECTION FENCES SHOWN. FINAL
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TEMPORARY ATF-TYPE
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EXISTING
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BE DEMOLISHED

CONSTRUCTION FENCE LINE OF SIGHT
ON OR INSIDE BOUNDARY ALLOW FOR
TREE REMOVAL. CONTRACTOR TO
CONFIRM EXTENT AND LOCATION

DATE: 6 JANUARY 2020
PROJECT: P1001 & P1002

1 PRELIMINARY WORKS CDC SITE PLAN

2 PRELIMINARY WORKS, EXISTING BUILDINGS AND TREES DETAILS

LEGEND

— SITE BOUNDARY
--- CONSTRUCTION FENCE

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STH BATESMARTL

ISSUED FOR INFORMATION

TSA

NSW Health

TWEED VALLEY HOSPITAL

PRELIMINARY WORKS
CDC SITE PLAN

10353.00 AR-DWG-10-101 2

ESSENTIAL ENERGY
SWITCHING STATION



NOTES

LANDSCAPE INDICATIVE ONLY - REFER LANDSCAPE ZONAL PLAN L-MP-12

LEGEND

- SITE BOUNDARY
- MAXIMUM PLANNING ENVELOPE
- TREE TRUNK LINE
- APZ OFFSETS
- PROBABILE MAXIMUM FLOOD LEVEL
- ➡ INDICATIVE BUILDING ENTRIES



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PROJECT MANAGER



CLIENT



PROJECT

TWEED VALLEY HOSPITAL
771 Cudgen Road, Cudgen

DRAWING TITLE

MASTERPLAN
CONCEPT PLAN

SCALE	DATE	DRAWN BY	CHECKED
1:2500 @ A3	19/09/2018	CE	MH
PROJECT NO.	DRAWING NO.	REVISION	
10363	AR-SKE-10-006	04	

Appendix D Consultant's Figures



LEGEND



Site Boundary

0 125 250 375m

1		04/7/2018	MO	RJ
REV	DESCRIPTION	DATE	INT	APP



CLIENT:	Health Infrastructure NSW	DESIGNED:	DRA'WR:
PROJECT TITLE:	Tweed Hospital PSI/DSI	CHECKED:	No. SHEETS:
SITE ADDRESS:	771 Cudgen Road, Cudgen	SCALE:	DATE STARTED:
DRAWING TITLE:	Site Location	JOB No:	J8961
		DRAWING No:	1



LEGEND



Sampling locations - PSI
Site Inspection (14/6/2018)



Site Boundary

0 75 150m

1		04/4/2016	MO	RJ
REV	DESCRIPTION	DATE	INT	APP



CLIENT:	Health Infrastructure NSW	DESIGNED:	DRAWN:
PROJECT TITLE:	Tweed Hospital PSI/DSI	CHECKED:	No. SHEETS:
SITE ADDRESS:	771 Cudgen Road, Cudgen	SCALE:	DATE STARTED:
DRAWING TITLE:	Areas of Potential Environmental Concern	JOB No:	J8961
		DRAWING No:	2

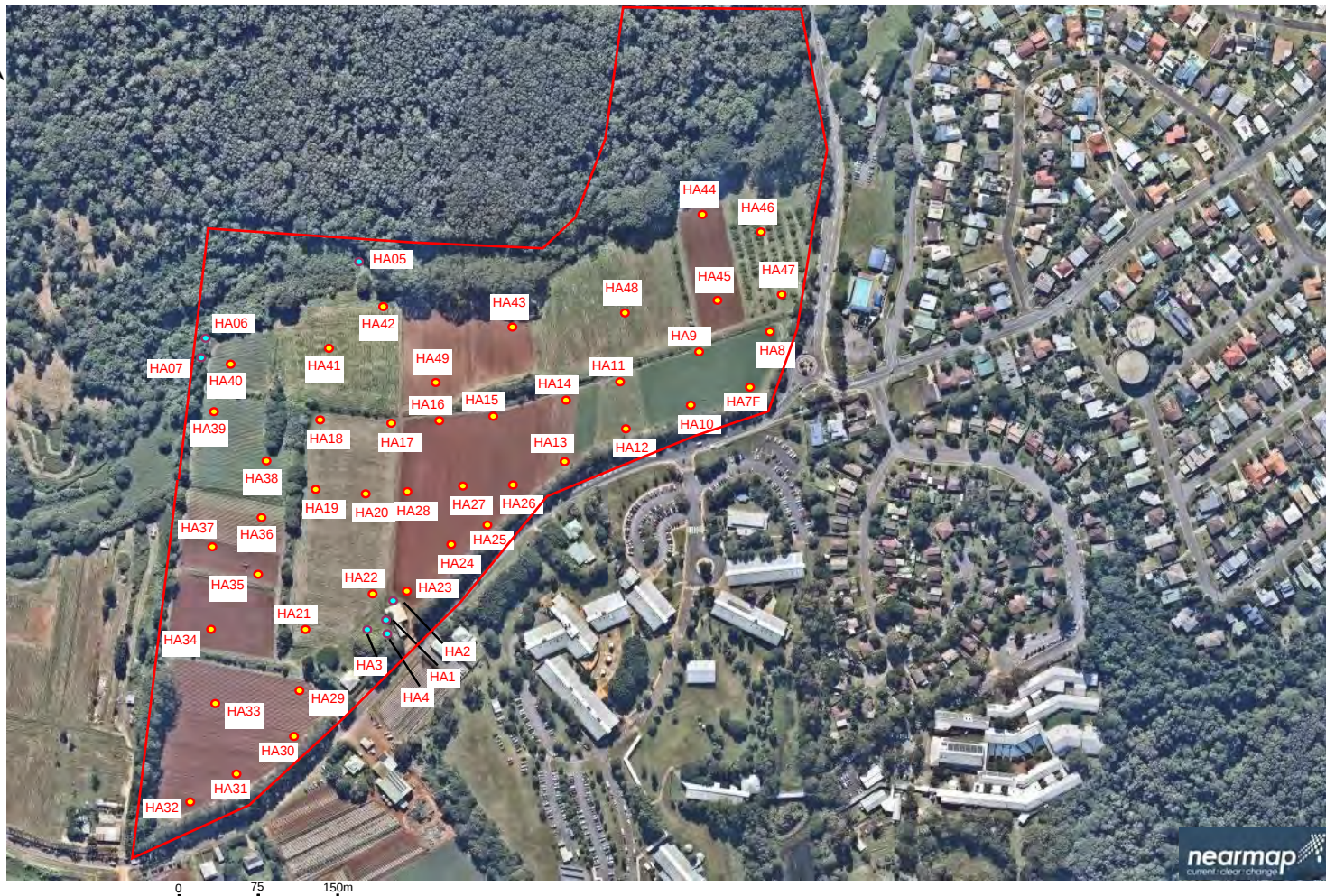


LEGEND

HA37
Hand Auger
location -
Composite
Sample

HA37
Hand Auger
location -
Discrete
Sample

Site Boundary



1		04/4/2016	MO	RJ
REV	DESCRIPTION	DATE	INT	APP



CLIENT:	Health Infrastructure NSW	DESIGNED:	DRA'WR:
PROJECT TITLE:	Tweed Hospital PSI/DSI	CHECKED:	No. SHEETS:
SITE ADDRESS:	771 Cudgen Road, Cudgen	SCALE:	DATE STARTED:
DRAWING TITLE:	DSI Sampling Locations	JOB No:	J8961
		DRAWING No:	3



LEGEND

HA37

Hand Auger
location.

SAMPLE ID SH48
Zinc (mg/kg) 1,600

Sample
results
exceeding
guidelines

SAMPLE ID SH48
Zinc (mg/kg) 1,600

SAMPLE ID HA37
Zinc (mg/kg) 200

SAMPLE ID HA32-035
Zinc (mg/kg) 270

SAMPLE ID HA32-03
Asbestos 0.02%

SAMPLE ID HA32-035
Zinc (mg/kg) 550



Site Boundary



nearmap
current colour changes

1		04/4/2016	MO	RJ
REV	DESCRIPTION	DATE	INT	APP



CLIENT:	Health Infrastructure NSW	DESIGNED:	DRA/WR:
PROJECT TITLE:	Tweed Hospital PSI/DSI	CHECKED:	No. SHEETS:
SITE ADDRESS:	771 Cudgen Road, Cudgen	SCALE:	DATE STARTED:
DRAWING TITLE:	Sample locations exceeding investigation guidelines	JOB No:	J8961
		DRAWING No:	4



0 75 150m

LEGEND



Monitoring well GW1



SED01 Sediment Sample



WS01 Surface Water Sample



Site Boundary



CLIENT:	Health Infrastructure NSW	DESIGNED:	DRAWN:
PROJECT TITLE:	Tweed Hospital PSI/DSI	CHECKED:	No. SHEETS:
SITE ADDRESS:	771 Cudgen Road, Cudgen	SCALE:	DATE STARTED:
DRAWING TITLE:	Groundwater and Surface Water Samples	JOB No:	J8961
		DRAWING No:	5

1		04/4/2016	MO	RJ
REV	DESCRIPTION	DATE	INT	APP



LEGEND

1		04/4/2016	MO	RJ
REV	DESCRIPTION	DATE	INT	APP



CLIENT:	Health Infrastructure NSW	DESIGNED:	DRA'WR:
PROJECT TITLE:	Tweed Hospital - RAP	CHECKED:	No. SHEETS:
SITE ADDRESS:	771 Cudgen Road, Cudgen	SCALE:	DATE STARTED:
DRAWING TITLE:	Site Location	JOB No:	J8961
		DRAWING No:	1



LEGEND

HA37

Hand Auger
location



0 75 150m

1		04/4/2016	MO	RJ
REV	DESCRIPTION	DATE	INT	APP



CLIENT:	Health Infrastructure NSW	DESIGNED:	DRAWN:
PROJECT TITLE:	Tweed Hospital RAP	CHECKED:	No. SHEETS:
SITE ADDRESS:	771 Cudgen Road, Cudgen	SCALE:	DATE STARTED:
DRAWING TITLE:	DSI Sampling Locations	JOB No:	J8961
		DRAWING No:	2



1		04/4/2016	MO	RJ
REV	DESCRIPTION	DATE	INT	APP



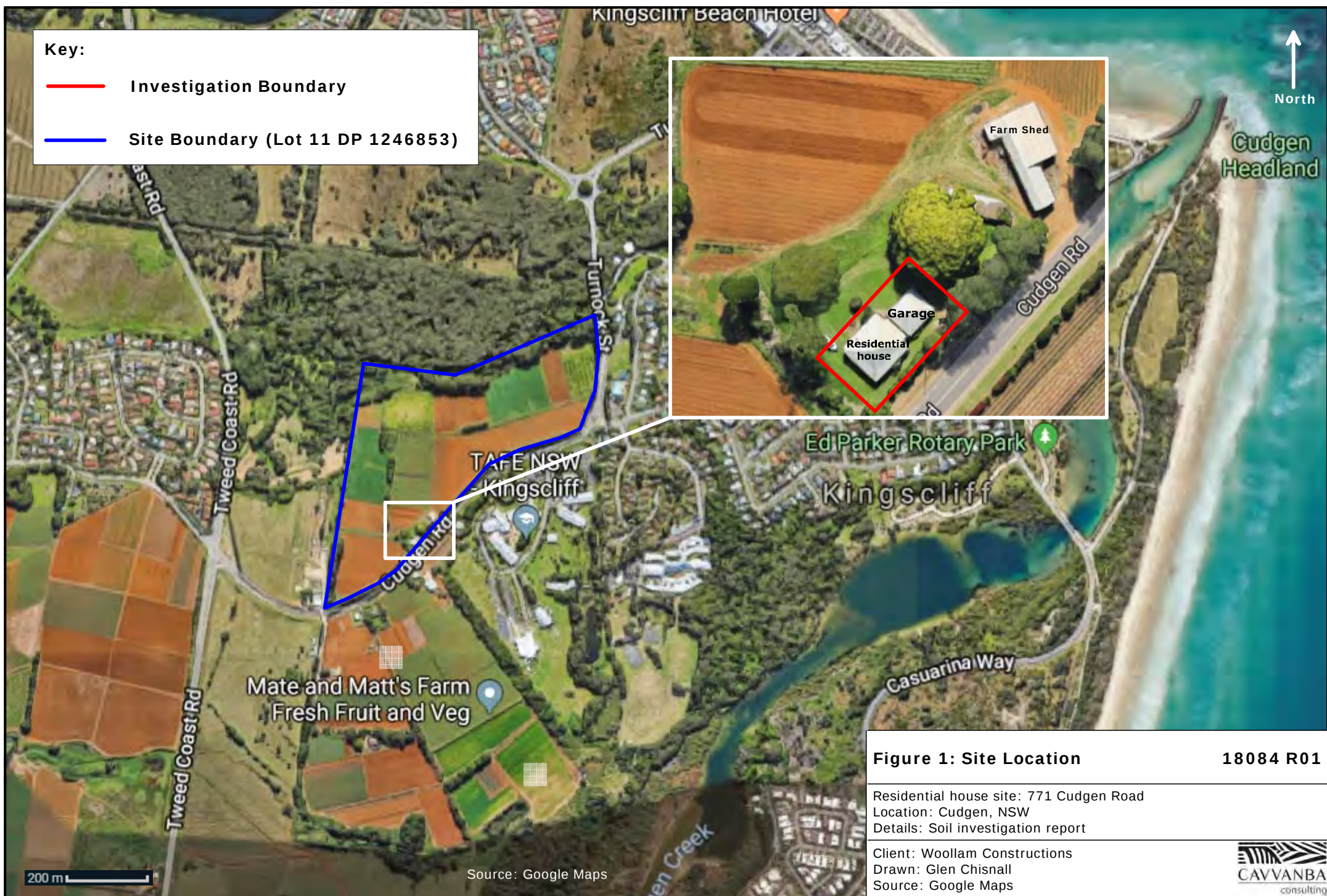
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PROJECT TITLE:	Tweed Hospital RAP	CHECKED:	No. SHEETS:
SITE ADDRESS:	771 Cudgen Road, Cudgen	SCALE:	DATE STARTED:
DRAWING TITLE:	Remediation Area	JOB No:	J8961
		DRAWING No:	3



1		04/4/2016	MO	RJ
REV	DESCRIPTION	DATE	INT	APP



CLIENT:	Health Infrastructure NSW	DESIGNED:	DRAWN:
PROJECT TITLE:	Tweed Hospital RAP	CHECKED:	No. SHEETS:
SITE ADDRESS:	771 Cudgen Road, Cudgen	SCALE:	DATE STARTED:
DRAWING TITLE:	Indicative Data Gap Investigation Area	JOB No:	J8961
		DRAWING No:	4



Key:



Test Pit Locations



Test Pit Locations exceeding site criteria



Investigation Boundary



North

Maximum reported lead
concentration of 1,600 mg/kg
at 0.3 below ground surface

TP01

TP16

TP10

TP17

TP29

Garage

TP30

TP28

TP19

TP15

TP09

TP02

Residential house

TP03

TP05

TP11

TP08

TP14

TP04

TP07

TP06

TP13

TP12

10 m

Source: Google Maps

Figure 2: Site Layout

18084 R01

Residential house site: 771 Cudgen Road
Location: Cudgen, NSW
Details: Soil Investigation Report

Client: Woollam Constructions
Drawn: Glen Chisnall
Source: Google Maps



Key:

✕ Test Pit Locations

✕ Test Pit Locations exceeding site criteria

— Investigation Boundary

Extent of lead impact exceeding criteria at 0.1 m depth

Extent of lead impact exceeding criteria at 0.3 m depth

Extent of lead impact exceeding criteria at 0.6 m depth

Maximum reported lead concentration of 1,600 mg/kg at 0.3 m below ground surface

TP16

TP10

TP01

TP15

TP09

TP02

TP08

TP14

TP13

TP07

TP04

TP12

TP06

TP17

TP28

TP29

Garage

TP30

TP19

TP18

TP03

TP05

TP11

Residential house

10 m

Source: Google Maps

North

Figure 3: Estimated extent of lead impact

18084 R01

Residential house site: 771 Cudgen Road

Location: Cudgen, NSW

Details: Soil Investigation Report - Residential house

Client: Woollam Constructions

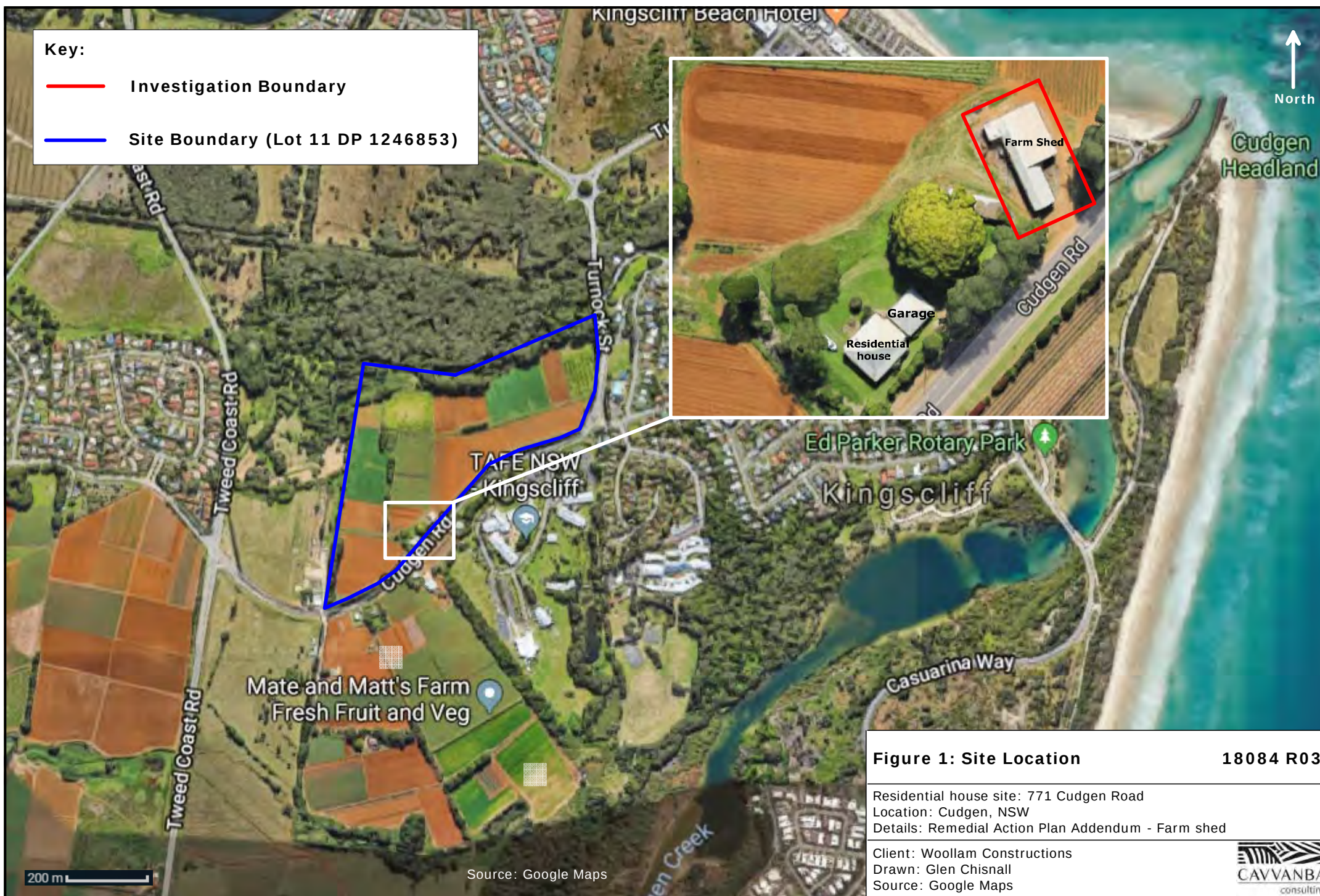
Drawn: Glen Chisnall

Source: Google Maps

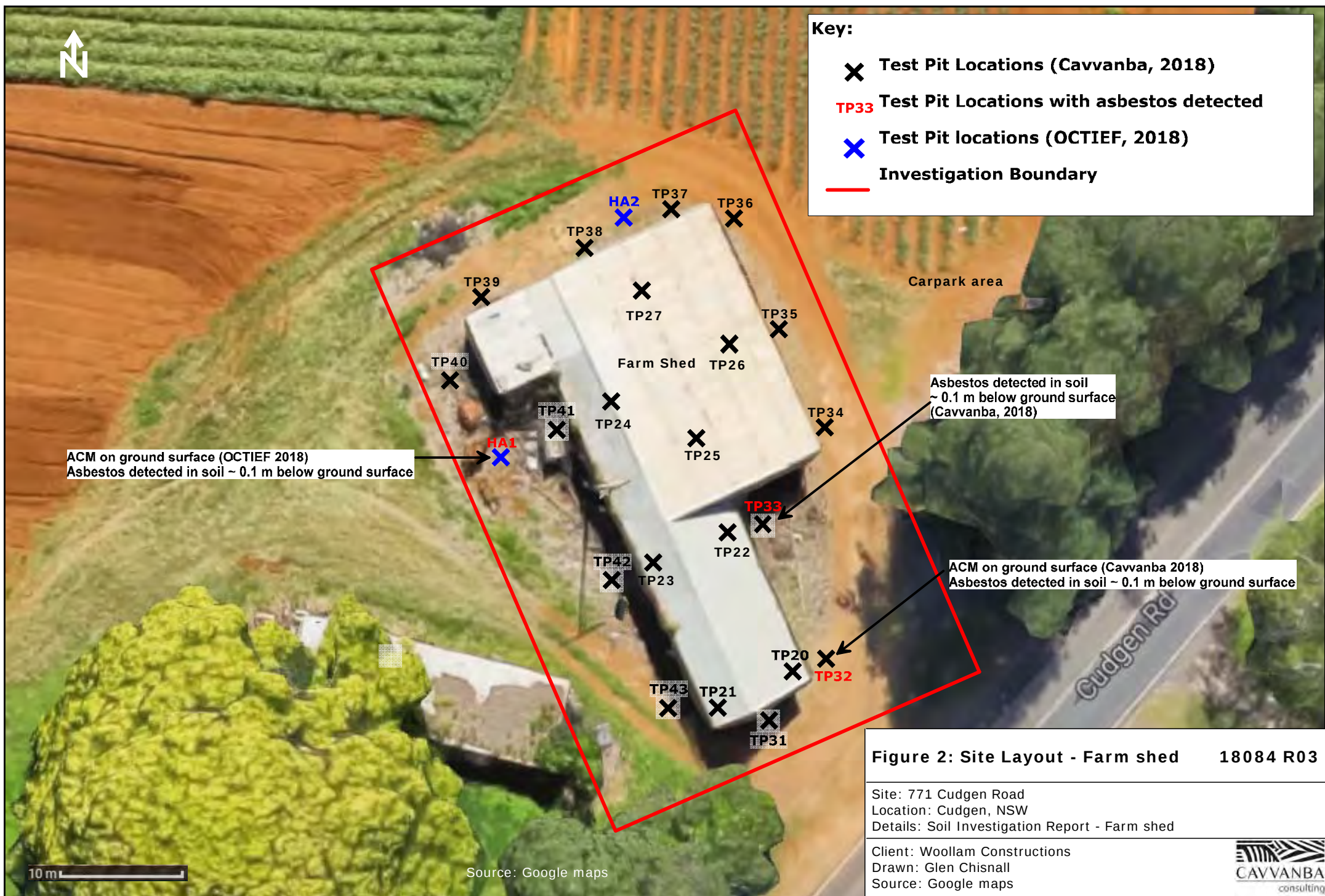
CAVVANBA consulting







18084 R03



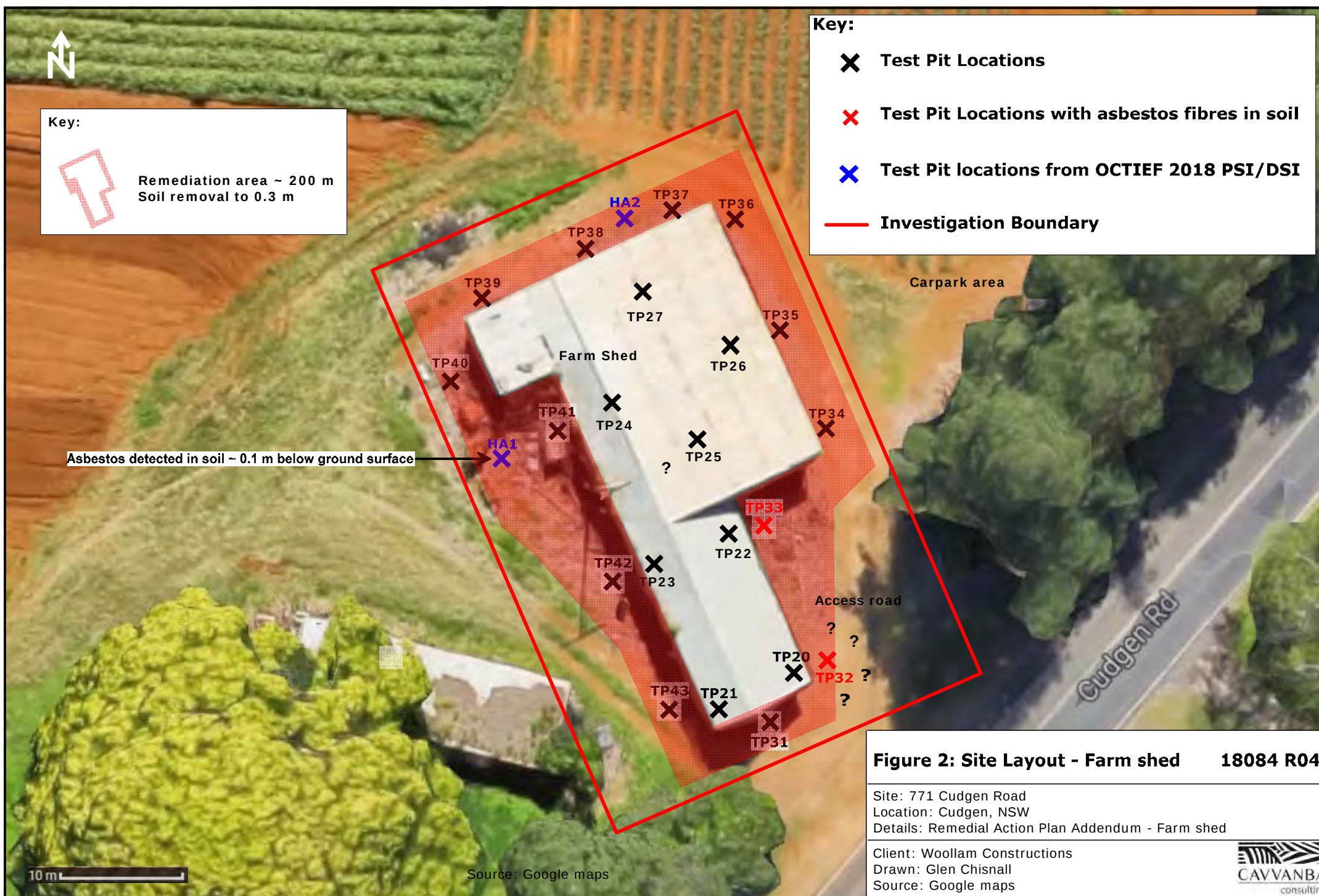




Figure 2: Site Layout

18084 R01

Residential house site: 771 Cudgen Road
 Location: Cudgen, NSW
 Details: Soil Investigation Report

Client: Woollam Constructions
 Drawn: Glen Chisnall
 Source: Google Maps

Key:

- ✕ Test Pit Locations
- ✕ Test Pit Locations exceeding site criteria (lead)
- Investigation Boundary
- Soil removal to 0.4 m
- Soil removal to 0.7 m



Maximum reported lead concentration of 1,600 mg/kg at 0.3 below ground surface

Residential house

Garage

Cudgen Rd

10 m

Source: Google Maps

Figure 3: Extent of lead impact

18084 R01

Residential house site: 771 Cudgen Road
Location: Cudgen, NSW
Details: Soil Investigation Report

Client: Woollam Constructions
Drawn: Glen Chisnall
Source: Google Maps



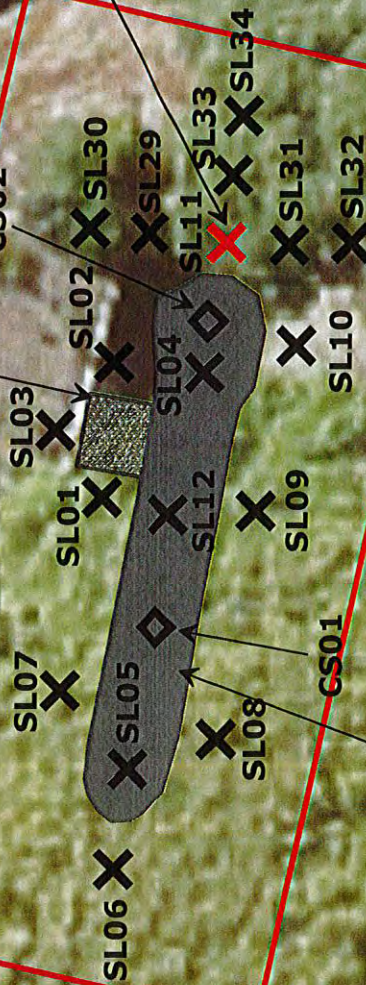




Former Farm Shed

Pit feature (1.1 m in depth)
Pit water contained freshwater
and drinking water criteria
exceedances for heavy metals.
Elevated TRHs and PAHs

Fig tree



Cudgen Road

Key:

✕ Soil sample locations

✕ Soil samples exceeding residential criteria

◇ Concrete sample locations

— Investigation area

Figure 2: Farm pit investigation area 19038 R02

Site: 771 Cudgen Road
Location: Cudgen, NSW
Details: Soil and groundwater investigation

Client: Lendlease
Drawn: Glen Chisnall
Source: Google Earth

Source: Six Maps

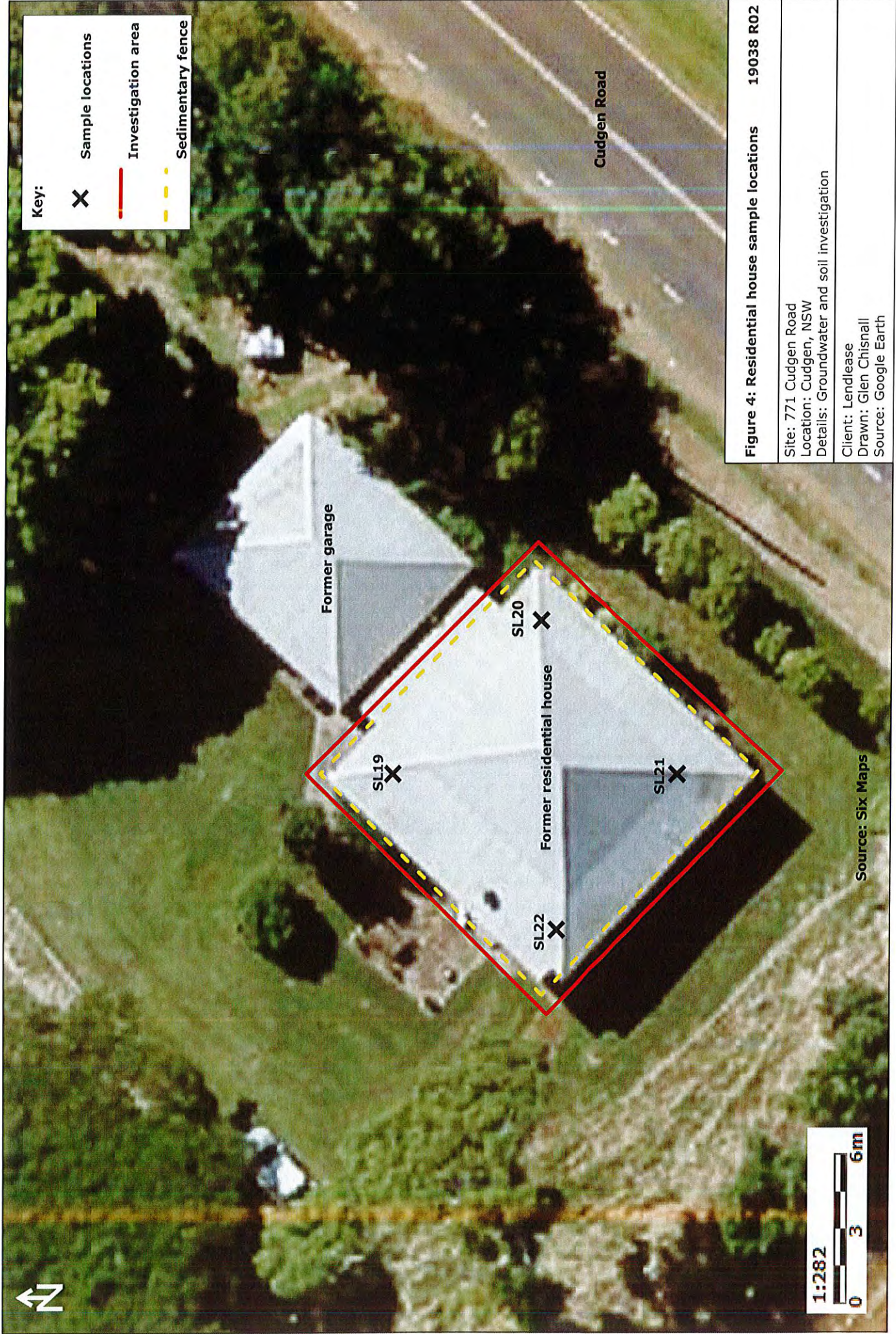
1:282





Figure 3: Farm shed sample locations 19038 R02

Site: 771 Cudgen Road
Location: Cudgen, NSW
Details: Soil and groundwater investigation
Client: Lendlease
Drawn: Glen Chisnall
Source: Google Earth



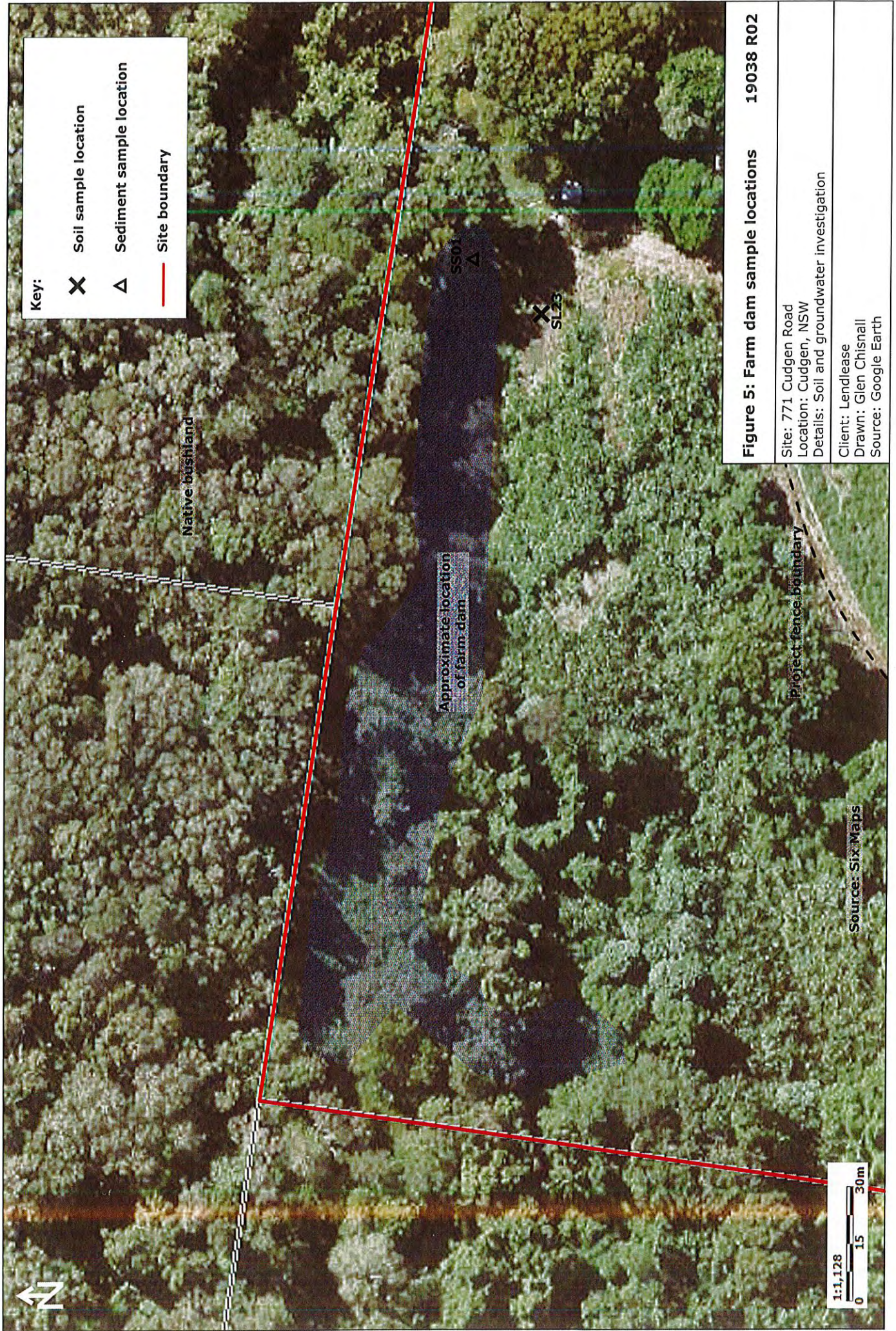


Figure 5: Farm dam sample locations 19038 R02

Site: 771 Cudgen Road
Location: Cudgen, NSW

Details: Soil and groundwater investigation

Client: Lendlease
Drawn: Glen Chisnall
Source: Google Earth

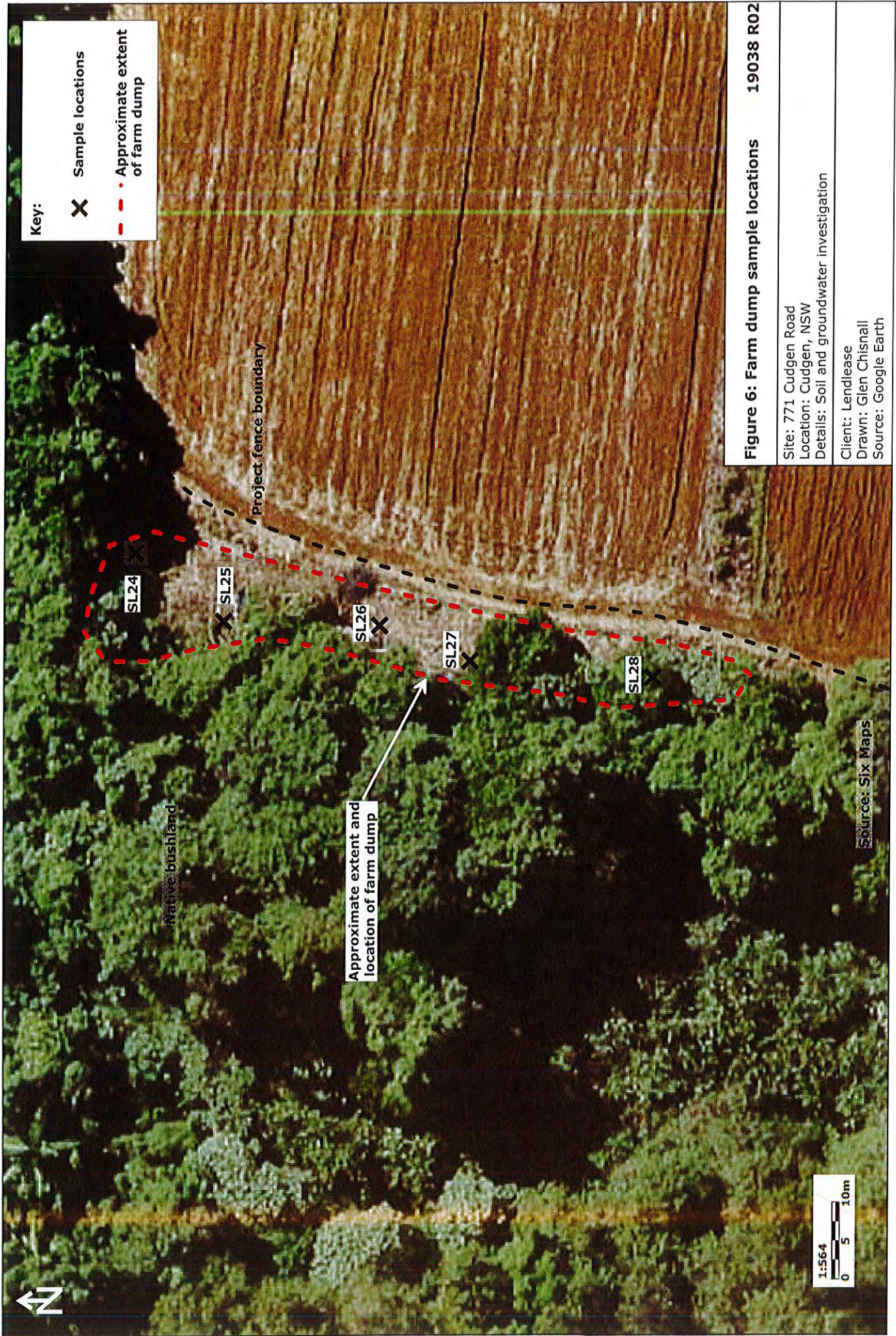


Figure 6: Farm dump sample locations 19038 R02

Site: 771 Cudgen Road
Location: Cudgen, NSW
Details: Soil and groundwater investigation
Client: Lendlease
Drawn: Glen Chisnall
Source: Google Earth



**Figure 7: Farm pit and shed
GW/SW sample locations** **19038 R02**

Site: 771 Cudgen Road
Location: Cudgen, NSW
Details: Groundwater and soil investigation
Client: Lendlease
Drawn: Glen Chisnall
Source: Google Earth

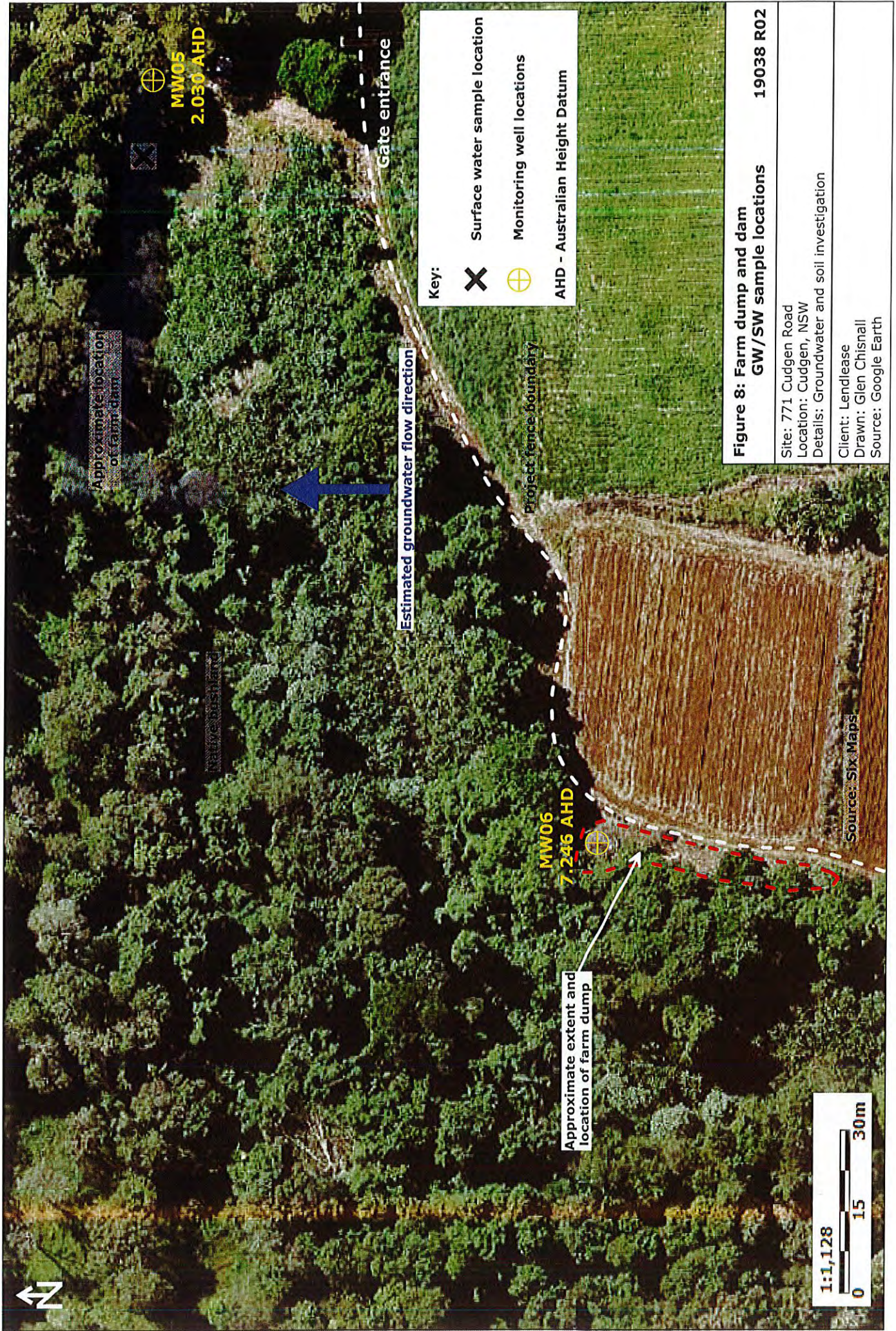


Figure 8: Farm dump and dam
GW/SW sample locations **19038 R02**

Site: 771 Cudgen Road
 Location: Cudgen, NSW
 Details: Groundwater and soil investigation

Client: Lendlease
 Drawn: Glen Chisnall
 Source: Google Earth

North-west

CONTAMINATION SOURCES

- 1 - Asbestos in soil
- 2 - B(a)P TEQ in soil
- 3 - Lead in soil
- 4 - Heavy metals & TRHs in surface water

EXPOSURE PATHWAYS

- A - Direct contact (dermal or incidental ingestion)
- D - Excavation/disturbance

RECEPTORS On-site

- i Site users
- ii Surface Water
- iii Ecological

South-east

