



POST ACTIVITY REPORT

REPORT

UNEXPLODED ORDNANCE FIELD VALIDATION SURVEY BINGARA GORGE, WILTON NSW

V1.01

G-tek Australia Pty Limited

[ABN 47 099 519 034]

Unit 5K, 256 New Line Road
Dural NSW 2158
Ph 02 9651 6838
www.g-tek.biz

Project Ref: 18102ELCO

Prepared For: Elton Consulting

DISCLAIMER AND COPYRIGHT NOTICE

DISCLAIMER

Please Read This Disclaimer

This Document is an important legal document. The use of this report is governed by and subject to this disclaimer.

G-tek's Client

The entity that commissioned this report, and who is G-tek Australia Pty Limited's (G-tek's) client is Elton Consulting (The "Client").

Purpose of This Report

This report was commissioned for the purpose of detailing the activities undertaken by G-tek on the Client's site and the results of those activities (The Purpose).

Disclaimer

G-tek accepts no responsibility or liability for any use of this report or any reliance upon this report by any person, other than the use of the whole of this report by the Client consistent with the Purpose. G-tek accepts no responsibility or liability to any person who relies upon a part of this report. This report must at all times be considered in its entirety.

COPYRIGHT

Copyright

G-tek is the owner of the copyright subsisting in this report.

Intellectual Property

This confidential report contains Intellectual Property that is owned by G-tek. No part of this document shall be reproduced without the express permission in writing of G-tek.

License

G-tek grants to the Client a non-exclusive license for the full term of copyright throughout the world to use and reproduce this Report for internal purposes only.

Infringement

The reproduction of any part of this Report by any person other than the Client, or for any reason not consistent with the Purpose is an infringement of copyright, and will be prosecuted by G-tek.



Prepared by:

Paul O'Donnell
Senior Project Manager



Released by:

Greg Guthrie
Chief Operating Officer

DOCUMENT VERSION CONTROL

Version	Date	Raised By	Released By
1.01	16 November 2018	P O'Donnell	G Guthrie

DOCUMENTATION CONTROL

Copy Number	Issued To
1	Elton Consulting
2	G-tek Australia Pty Limited

Table of Contents

1.0	INTRODUCTION	1
2.0	AUTHORITY TO UNDERTAKE TASK	2
3.0	OBJECTIVE	2
4.0	NATURE OF REPORT	2
5.0	PREVIOUS INVESTIGATIONS OF THE SITE	2
6.0	DATES OF CONDUCT	3
7.0	CONTRACTOR DETAILS	3
7.1	Personnel	3
8.0	CLIENT DETAILS	3
9.0	SITE CHARACTERISTICS	3
10.0	FIELD VALIDATION SURVEY	4
11.0	HEALTH AND SAFETY	5
12.0	OUTCOMES	5
13.0	CONCLUSIONS	6
14.0	RECOMMENDATIONS	6

Attachments:

- 1 Equipment Specifications

1.0 INTRODUCTION

G-tek Australia Pty Limited (G-tek) has been contracted to conduct an unexploded ordnance (UXO) Field Validation Survey (FVS) determine the nature and extent of any UXO contamination within those parks of the Bingara Gorge Development at Wilton NSW affected by the Department of Defence classification as other resulting from their proximity to the Douglas Park UXO area (ID:171) that was potentially used as a RAAF Bombing Range during WWII. The three land parcels affected by the classification and the subject of this Report are Part Lot 31 DP270536, Part Lot 26 DP270536 and Part Lot 1 DP270536 within the Bingara Gorge development area south of the Hume Highway/Motorway as indicated at Figure 1.

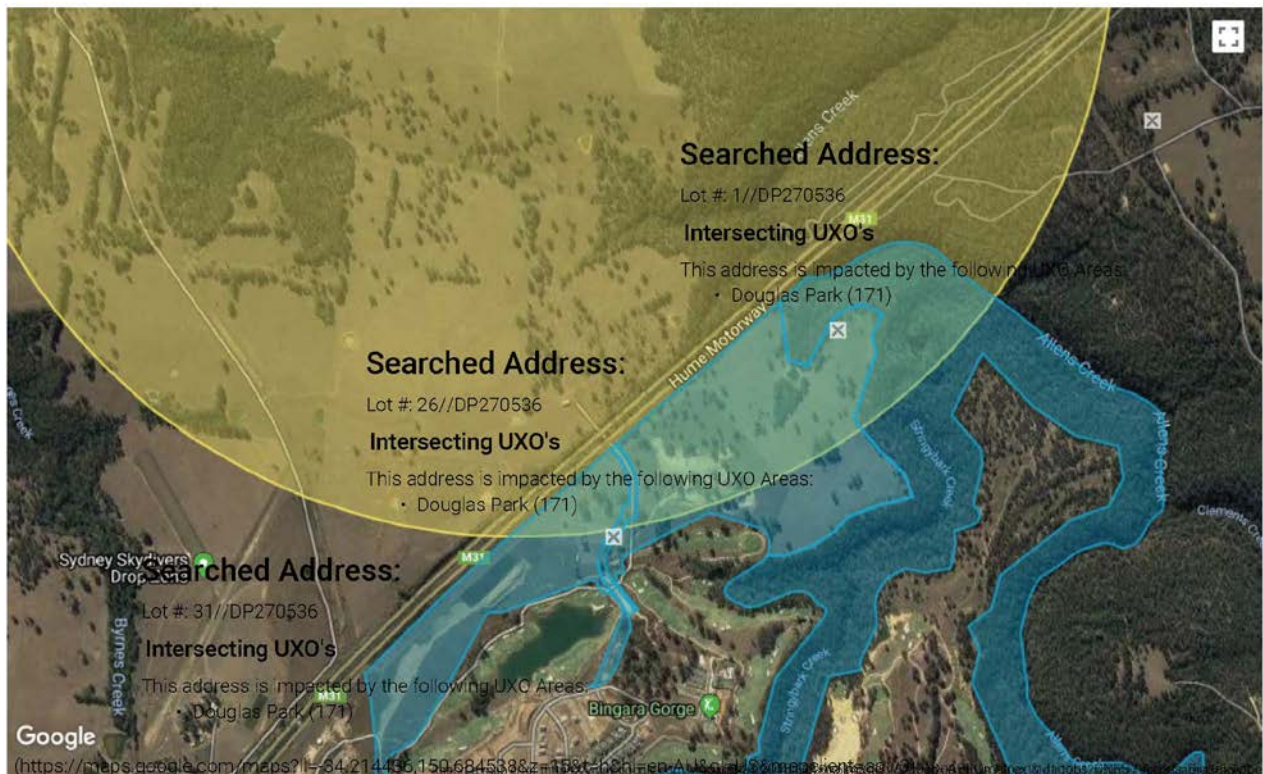


Figure 1 – Douglas Park UXO Area (ID:171) Yellow, Impacted land Parcels Blue [DoD]

The Douglas Park Bombing Range was developed by clearing a central target area of trees and grubbing out the roots, the cut timber was used for fence posts and a five (5) strand wire fence was placed around the primary target area. Additional timber was also cut to allow direct line of sight from two quadrant (observation) shelters positioned North and West of the range on the northern side of the Nepean River.

The central target area consisted of an 1,800 ft (549 m) diameter circle inside a (generally) 2,640 ft (805 m) fenced square, extended at the South by 661 ft (201.5 m) to accommodate an Emergency Landing Ground (ELG) diverted at the East around a large "Tank" (Dam).

The Current Defence classification circle appears to be directly based on the exclusion zone established in 1943 when the Douglas Park Bombing Range was developed (Figure 2 below).

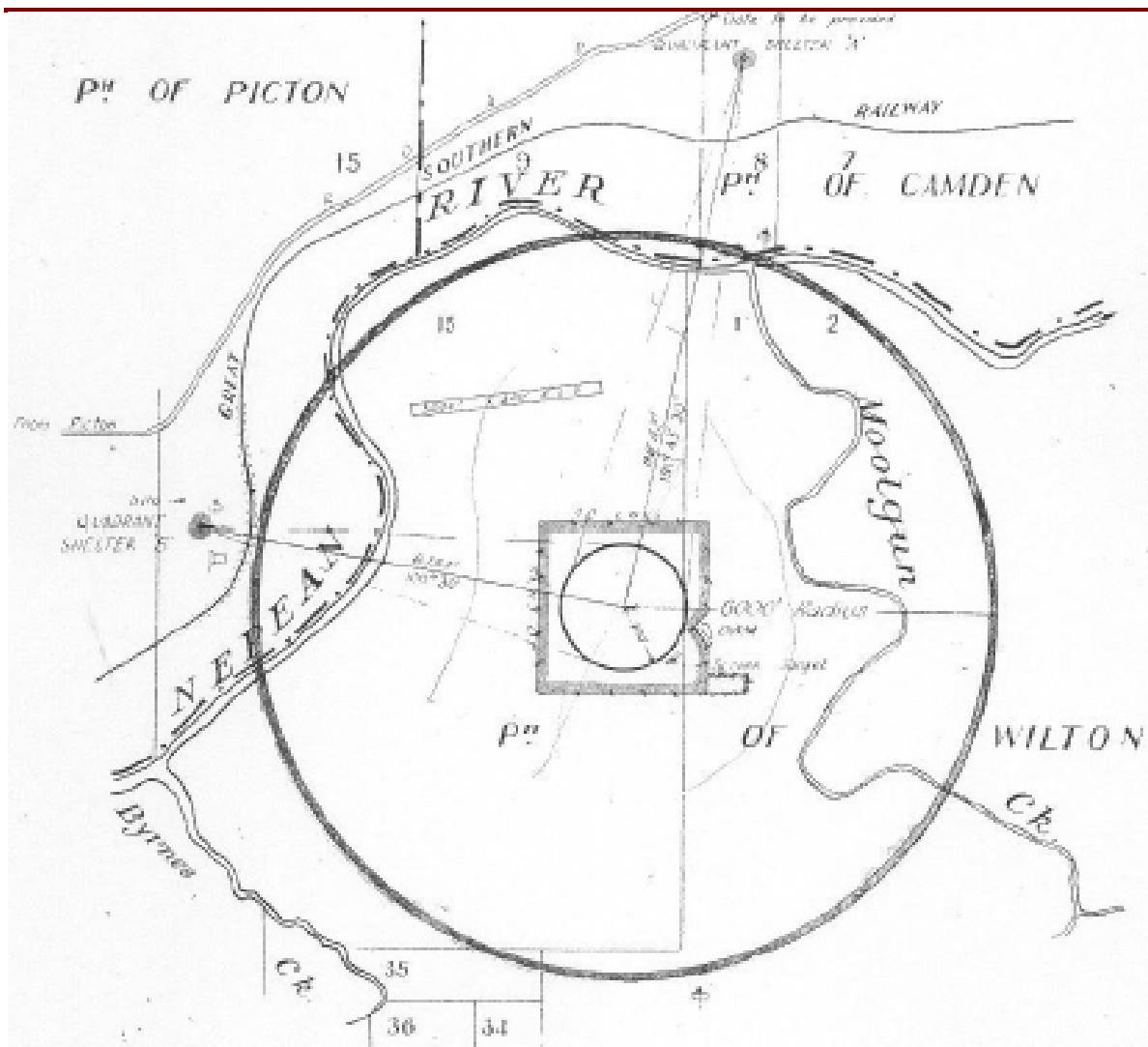


Figure 2 – DWG 43/44/1020 dated 23-12-43 (NAA File SP16/4 Item 4166)

2.0 AUTHORITY TO UNDERTAKE TASK

Email Robert Bennett (Elton Consulting)/O'Donnell (G-tek) dated 13 November 2018.

3.0 OBJECTIVE

The objectives of this task were:

1. Determine the nature and extent of UXO, EO or EOW contamination within the indicated Lots; and
2. Provide a Post Activity Report (PAR) detailing the outcomes.

4.0 NATURE OF REPORT

This report details the conduct of the works and the results obtained. All relevant documentation is included as part of this report.

5.0 PREVIOUS INVESTIGATIONS OF THE SITE

G-tek has undertaken previous Desk Top Studies of the Douglas Park Bombing Range, but has not previously conducted Field investigations of any part of the Defence defined area. G-tek has not conducted any previous field investigations within the Bingara Gorge Site.

6.0 DATES OF CONDUCT

Field Validation Survey was conducted on 14 and 15th November 2018.

7.0 CONTRACTOR DETAILS

The contracting firm is G-tek Australia Pty Limited (G-tek) ABN 47 099 519 034; G-tek is a member of the current Department of Defence Environmental and Heritage Panel (DEHP) and is considered suitably qualified to conduct these works.

7.1 Personnel

The following G-tek staff were directly involved in this task:

Project Director
Mapping/Survey

Greg Guthrie
Paul O'Donnell

8.0 CLIENT DETAILS

Elton Consulting
Level 6, 332-342 Oxford Street,
Bondi Junction, NSW, 2022

Contact

Robert Bennett
Director – Urban and Regional Planning

9.0 SITE CHARACTERISTICS

The majority of the Site is gently rolling grazing country with occasional shade trees. The eastern half is divided into smaller paddocks by numerous stock fences. In the northwest the Site drops down to Moolgun Creek and is naturally vegetated with open eucalyptus woodland. The extremities in the west were inaccessible due the steep terrain.

A borrow area of approximately 4Ha was located around 286900E, 6211400N. This area was holding water and was only minimally assessed as the original soil cover had been removed and with it, any evidence relevant to this FVS.



Figure 3 – Part of the unassessed Borrow Area

10.0 FIELD VALIDATION SURVEY

Field Validation Survey (FVS) was conducted by a two (2) person team with each operator conducting both visual and instrumented search of a nominally 1 metre (1m) wide while traversing the Site in (where possible) parallel transects approximately 20m apart. Each operator was equipped with a GPS to both track the areas searched and to record any ordnance related “finds”.

Instrumented search was conducted using a Minelab F3 Metal Detector with high sensitivity Black Cap attached; the Minelab F3 provides an aural cue to the operator in the presence of metal; equipment specifications are included at Attachment 1 to this Report.

Each aural cue was investigated by the operator using hand tools to identify the source of the cue; if the source was to be identified as ordnance related, the location would have been recorded. After cue identification, each location was then re-checked to ensure that the identified item was not “masking” additional material.

FVS coverage was attempted in all accessible parts of the Site, but steep areas of exposed outcrop and standing water/wet areas were avoided for safety reasons.

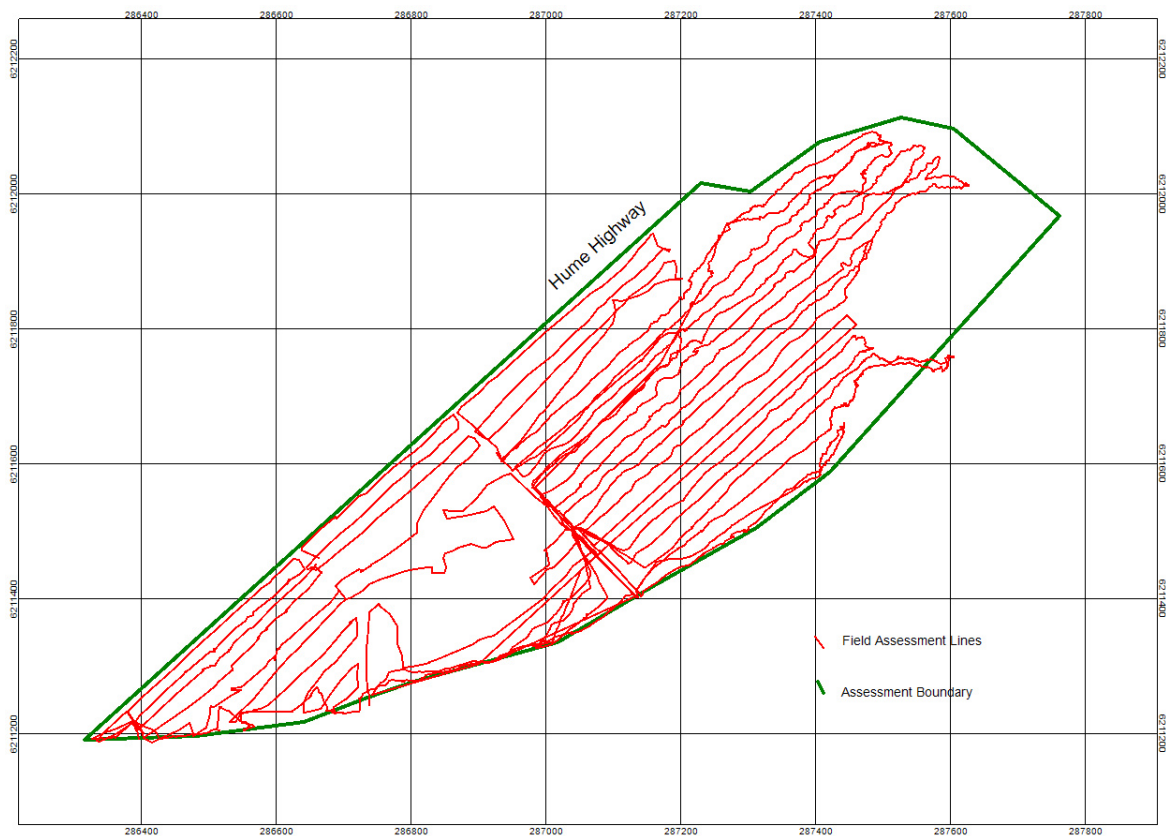


Figure 4 – Bingara Gorge FVS Tracks

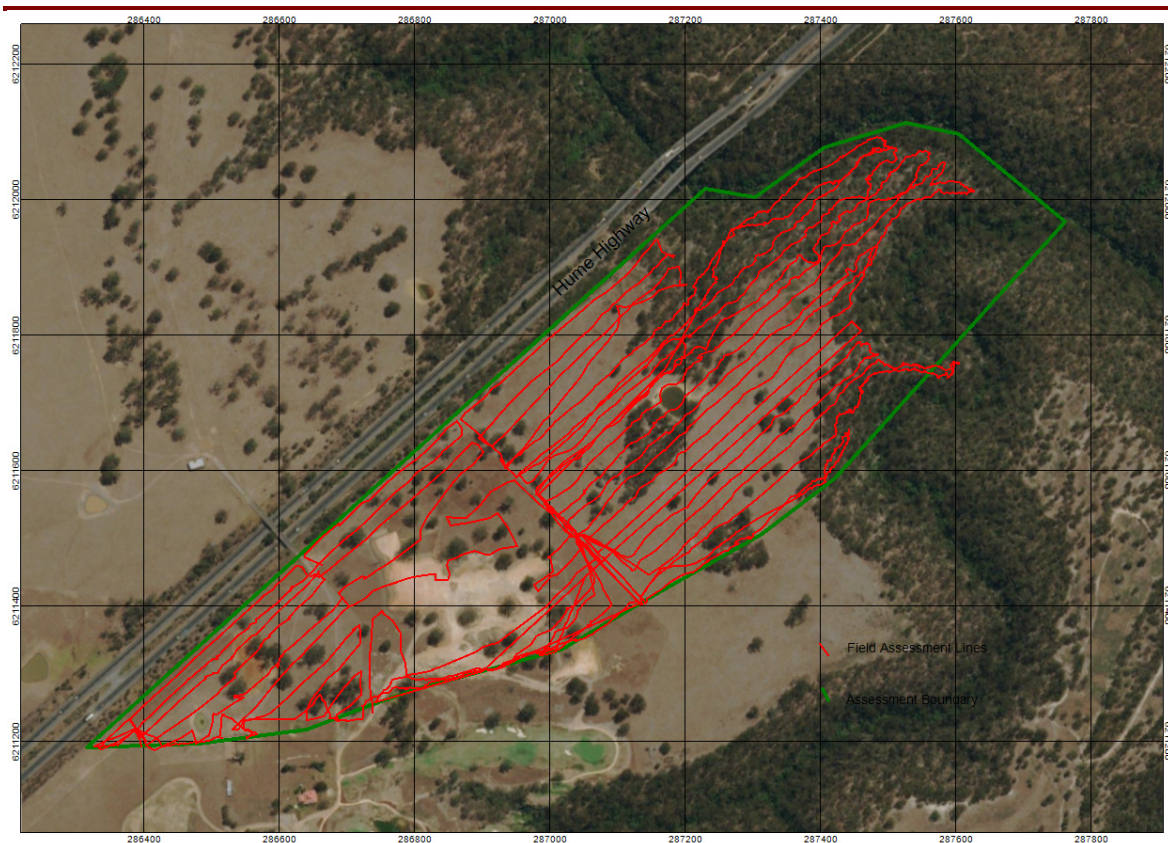


Figure 5 – Bingara Gorge FVS Tracking [Bing Image]

11.0 HEALTH AND SAFETY

No health or safety incidents were recorded during the conduct of these works. Care was taken to ensure that steep areas of exposed rock and areas of standing water were avoided during this FVS.

12.0 OUTCOMES

No items of unexploded ordnance (UXO), explosive ordnance (EO), explosive ordnance waste (EOW) or small arms ammunition waste (SAAW) were identified during this FVS.

Various items indicating agricultural usage were located. No other indications of other waste items were observed.



Figure 6 – Indicative "finds"

13.0 CONCLUSIONS

Based on the works conducted, it is considered that there is little to no risk of UXO, EO, EOW or SAAW containing high explosive (HE) or other energetic material, such as pyrotechnics or propellant, to be remnant within the requested Bingara Gorge FVS area as a result of any activities within the former Douglas Park Bombing Range.

14.0 RECOMMENDATIONS

It is recommended that any planned development works within those parts of Lot 31 DP270536, Lot 26 DP270536 and Lot 1 DP270536 within the Bingara Gorge development area south of the Hume Highway/Motorway be allowed to proceed without further unexploded ordnance assessment, remediation or other works being required to be conducted.

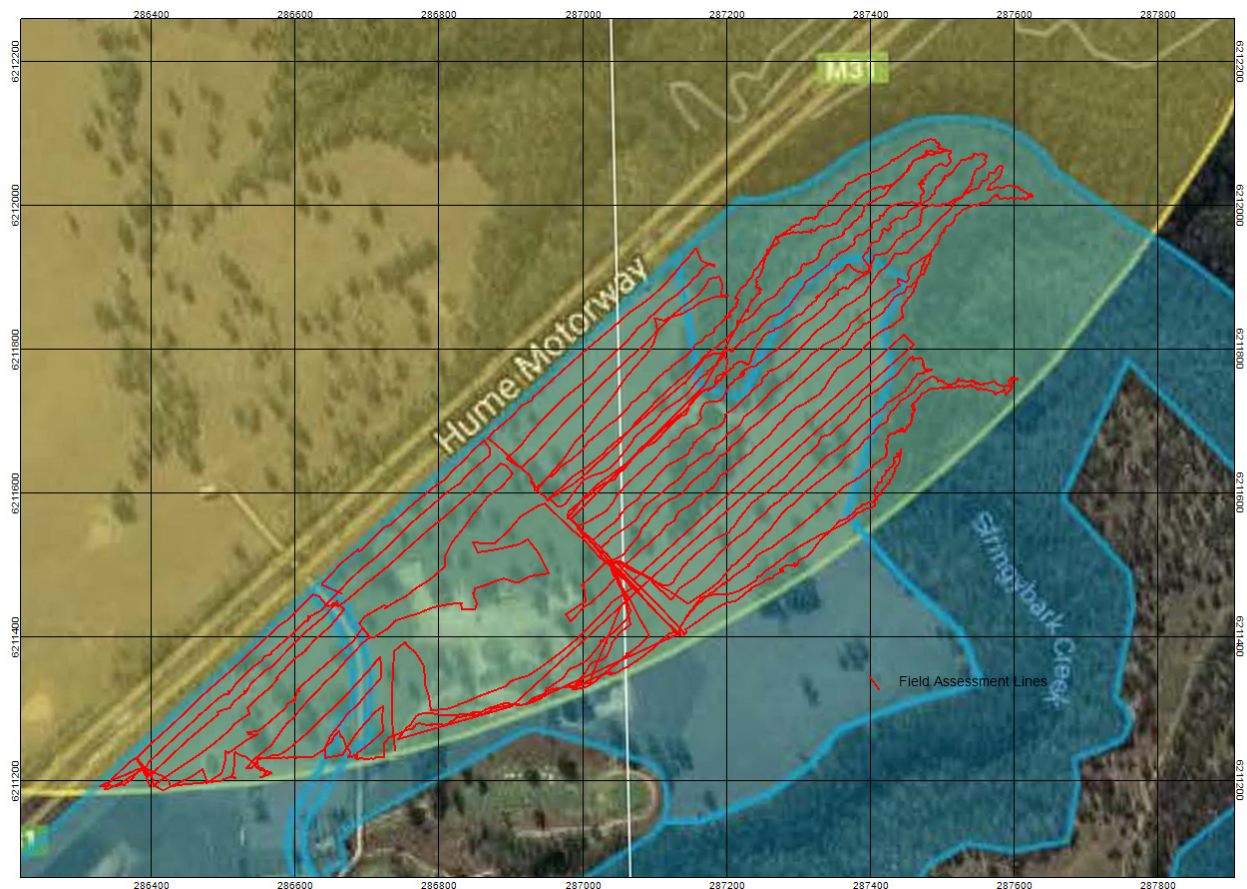


Figure 7 – Report Area

ATTACHMENT 1: EQUIPMENT SPECIFICATIONS

MINELAB F3 METAL DETECTOR



TECHNICAL SPECIFICATIONS

Operating Length	760mm - 1500mm
Search Head	200mm circular
Operating Weight	3.2kg
Operating Weight (Battery Pack Detached)	2.3kg
Battery Pack with Batteries	0.9kg
Packed Weight (Hard Case)	10.5kg [850 x 450 x 170]
Technology	Pulse Induction Multi Period Sensing - BiPOLAR
Audio Output	Internal Speaker
	Earset (Options: 1. Speaker ON / 2. Speaker OFF)
Water Resistance	IP67
Batteries	Alkaline D cells (4x1.5V - Lr20) Rechargeable NiCad or NiMH D cells)
Data Output	RS232
Operating Temperature	-30°C to +60°C / -22°F to + 140°F
Design Standard	MIL STD 810 F