



19 DECEMBER 2018

Kinetic Environmental

c/- Eloise Lonnberg-Shaw

Email: [eloise@kineticenvironmental.co.nz](mailto:eloise@kineticenvironmental.co.nz)

26 London Street  
Hamilton 3204  
PO Box 9266  
Hamilton 3240  
New Zealand  
64 (0)7 957 2727

HD867 – McPherson Quarry – NESCS Review, Ref LUC0123/19

Dear Eloise,

Thank you for the opportunity to provide environmental services to your client, McPherson Quarry. The quarry is located on McPherson Road, Pokeno. A consent application has been submitted to allow for expansion of the quarry. A site plan is attached.

#### Background

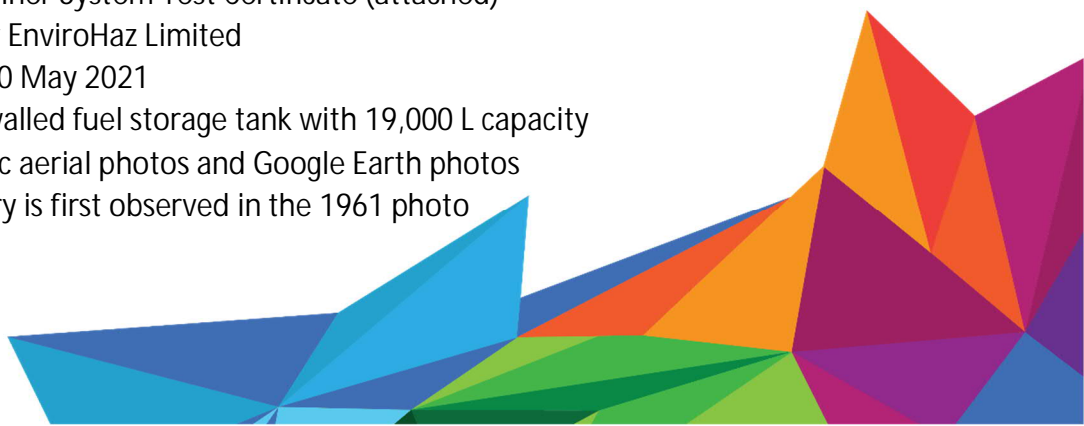
As part of quarry operations, there is a diesel fuel tank present. Storage of diesel fuel is considered a hazardous activities and industries list (HAIL) activity (A17). Certain activities, such as soil disturbance, subdivision, and change of land use, require consideration of the National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health (NESCS) if HAIL activities have occurred on site.

The purpose of considering the NESCS is to determine whether there is potential for contamination from HAIL activities and, if so, whether the contamination could adversely affect human health.

#### Evaluation

A desktop study was conducted to evaluate the potential for contamination to The expansion of the quarry. Documents reviewed include:

- Waikato District Council (Reference LUC0123/19) further information request
  - the letter notes the requirement for consideration of the NESCS with regard to fuel storage
- Stationary Container System Test Certificate (attached)
  - issued by EnviroHaz Limited
  - expires 30 May 2021
  - double-walled fuel storage tank with 19,000 L capacity
- Retrolens historic aerial photos and Google Earth photos
  - the quarry is first observed in the 1961 photo



- photos from 1966, 1975, 1981, and 1988 show expansion of the quarry and the construction yard is visible in all photos
- no obvious visual evidence of fuel storage within the quarry footprint
- apparent cylindrical tank present from 1975 – 1988 near the construction yard
- quarry expansion evident in 2003 – 2017 Google Earth photos with tank apparent in construction yard
- current photos of fuel storage tank
- interview with site owner/operator

The fuel storage tank is situated within the construction yard as shown in the attached figure. A photo of the tank is also attached.

The site owner/operator stated that there has always been a fuel tank on site, which is maintained by a third party (fuel supplier). He stated that there have never been underground storage tanks; fuel has always been stored above ground. He also knows of no leaks, spills or releases associated with fuel storage.

The tank appears to be in compliance with requirements and there is no obvious evidence of leakage or releases. The topography falls from the west to the east. Assuming groundwater follows site topography, the tank would be downgradient of operations. The tank is situated in the approximate centre of the construction/office area and it is likely that releases would be confined to this area and not migrate off-site.

#### Conclusion

Based on the information provided and reviewed for this desktop study, I consider that the risk from fuel storage is low with regard to the proposed quarry expansion. We recommend that this be classified as a permitted activity with regard to the NESCS due to the low risk from the HAIL activity.

#### Limitations

This report has been prepared based on information provided by others. No sampling or analysis has been conducted. Should additional information become available, HD Geo reserves the right to amend this letter and conclusions drawn.

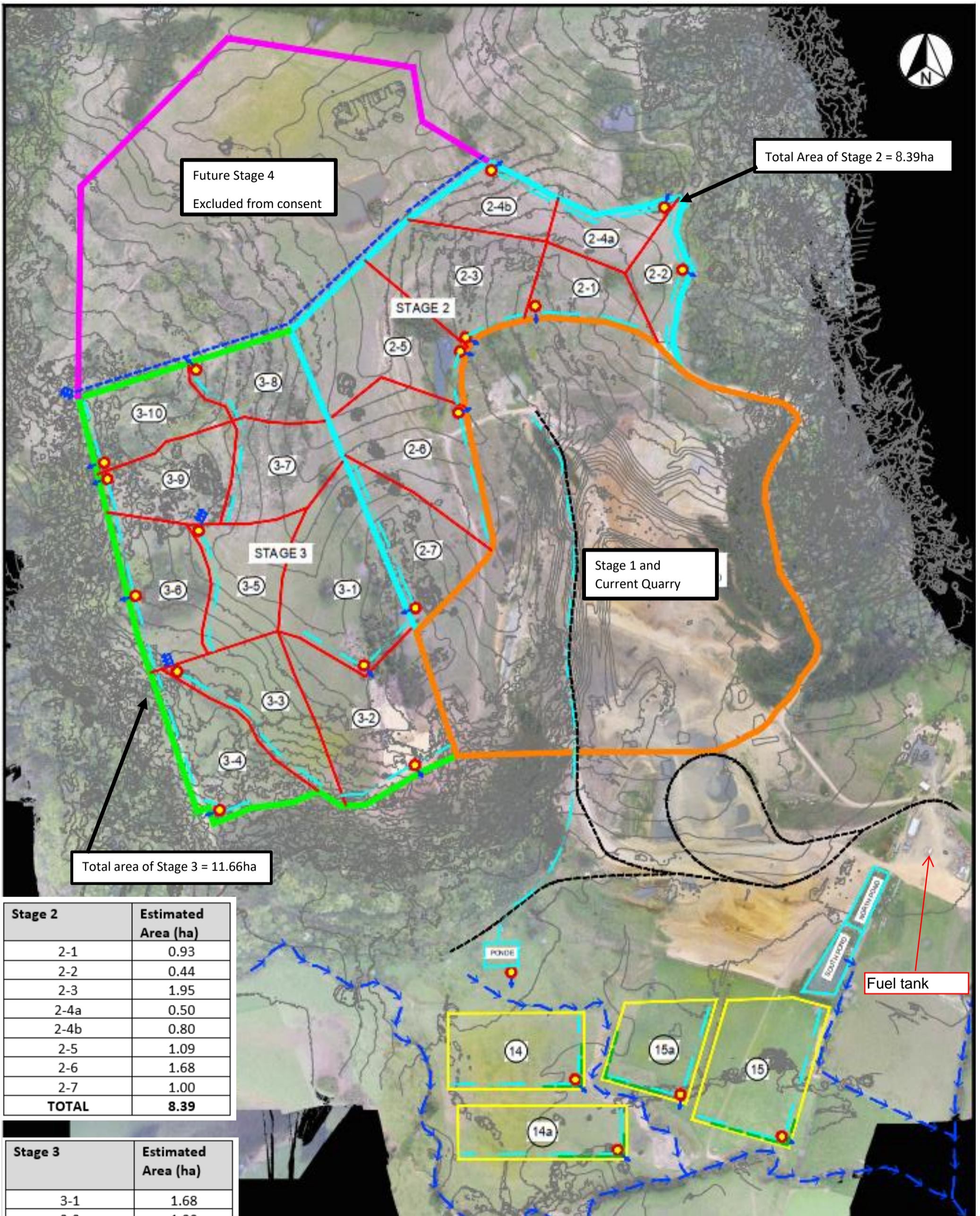
Kind regards,



**TERRE NICHOLSON, CENVP-SC**  
Principal Environmental Consultant  
Terre@hdgeo.co.nz  
Tel 021 061 3983



**ANDREW HOLLAND**  
Director, Principal Engineer, CPEng  
Andrew@hdgeo.co.nz  
Tel 022 048 8441



Stage 2	Estimated Area (ha)
2-1	0.93
2-2	0.44
2-3	1.95
2-4a	0.50
2-4b	0.80
2-5	1.09
2-6	1.68
2-7	1.00
<b>TOTAL</b>	<b>8.39</b>

Stage 3	Estimated Area (ha)
3-1	1.68
3-2	1.80
3-3	0.93
3-4	0.90
3-5	1.15
3-6	1.18
3-7	1.05
3-8	0.87
3-9	1.06
3-10	1.04
<b>TOTAL</b>	<b>11.66</b>

Stage 2: Overburden / Cleanfill (50% each)	Estimated Area (ha)
14	1.47
14a	0.73
<b>TOTAL</b>	<b>2.20</b>

Stage 3: Overburden / Cleanfill (50% each)	Estimated Area (ha)
15	1.65
15a*	1.10
<b>TOTAL</b>	<b>2.75</b>

\*less wetland in NE corner

**Stages 2 and 3 ESCP Map**



PROJECT: McPherson  
Quarry

PROJECT NO:HD867

CLIENT: Kinetic

TITLE: Fuel Tank

SCALE: NTS

Drawing No. 1

Drawing by: TN

Rev Number

0	Initial



**EnviroHaz Limited**

PO Box 4149, Wanganui 4541

Office: 06-345 6999, Fax: 06-345 6998

Email: info@envirohaz.co.nz

Website: www.envirohaz.co.nz

## Stationary Container System Test Certificate

Issued pursuant to Section 82 of the  
Hazardous Substances and New Organisms Act 1996

**Issued To:**

*Farmland Fuels*  
P O Box 1330  
Hastings 4156  
0800 66 66 26

**Certificate No:** 000043-00031738

**Site Location:**

*McPherson Resources*  
49 McPherson Road  
Mangatawhiri 2471  
0800 66 66 26

This certificate is issued in accordance with Clause 91 of Schedule 8 of the Hazardous Substances (Dangerous Goods and Scheduled Toxic Substances) Transfer Notice 2004. This certifies that the relevant requirements have been met for the stationary container system, substances and the maximum quantities as specified below.

**Stationary Container Details:**

Aboveground Tank (Steel double skin)  
Flammable Liquid  
Design Standard: AS 1692  
Designer: Civilquip  
Manufacturer: Civilquip  
Manufacturer Ref: 2540112  
Year of Manufacture: 2013

**Equipment Details:**

Electric Pusi Dispenser  
Max Fill Capacity: 19,000 L

**Substance:**

Class 3.1D Flammable liquids: Diesel

**Maximum Quantity:**

19,000 litres

**Conditions:**

This certificate becomes invalid if, in accordance with Part 18 of the Transfer Notice 2004, the above Stationary Container System is repaired, altered, relocated or there is a change of service in respect of the contents of the container.

Unless surrendered, revoked or becomes invalid beforehand, this certificate shall remain in force until the expiry date stated below, at which time it may be renewed by an authorised Test Certifier.

This certificate must be produced at the request of an Enforcement Officer appointed under the HSNO Act 1996.

  
\_\_\_\_\_  
**Tony Neilson**

**Test Certifier Registration No:** 000043

**Date Issued:** 6 Jan 2016

**Expiry Date:** 30 May 2021