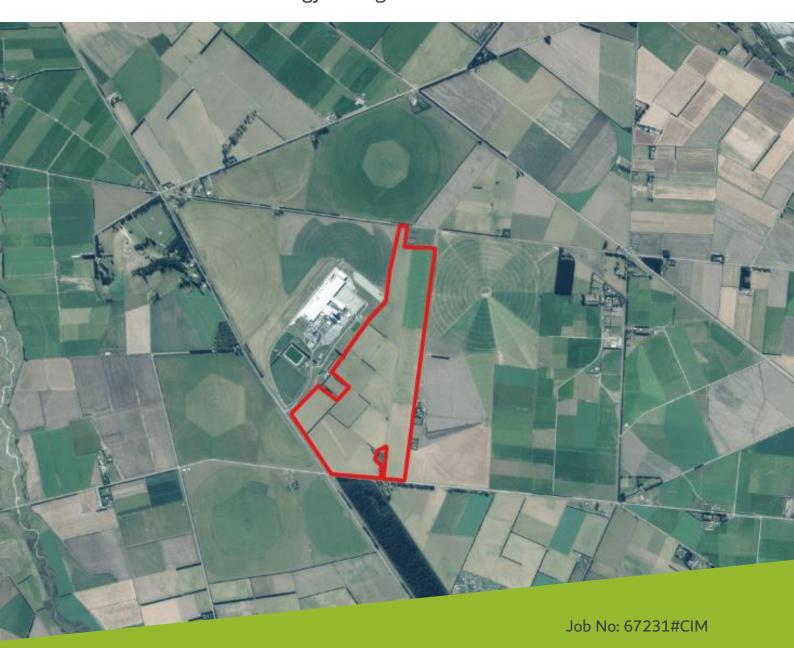


Darfield Solar and Energy Storage Project

Preliminary Site Investigation

for: Darfield Solar and Energy Storage Ltd



Version: Rev3

eTrack No: 200048456

Date of Issue: 26/08/2024



EXECUTIVE SUMMARY

Babbage Consultants Limited (Babbage) has been engaged by Darfield Solar and Energy Storage Ltd (DSES) to undertake a Preliminary Site Investigation (PSI) at 1352 Homebush Road, Darfield, Selwyn District (the site). The findings of this investigation are summarised as follows:

- The site has been used for as production land (combination of agricultural, pastoral, and forestry purposes) for at least 69 years. Forestry activity ceased around 2010.
- Site history review indicates that the site has been subjected to an activity on the Hazardous Activities and Industry List (HAIL) Item A10.
- The site has potential contaminants in particular organochlorine pesticides (OCPs), organophosphate pesticides (OPPs), and metals from historical agricultural activities.
- The conceptual site model indicates that there is a potential source and pathway link to human/ecological receptors. The level of risk to human health or the environment is considered minor for Lot 2 and less than minor for Lot 1.
- Pursuant to regulation 5(8)(b) of the NESCS¹, the piece of land is to remain as production land (grazing) and the proposed soil disturbance activity is not related to residential or farmhouse activities, therefore the NESCS does not apply.
- Notwithstanding the minor and less than minor risk assessment, an environmental soil assessment is recommended prior to soil disturbance works on site to assess the level of contamination and required controls during earthworks, if any.

¹ Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011.



26 August 2024

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ACKNOWLEDGEMENT OF SUBMISSION

This report was prepared by Charlotte Lucas and reviewed by Hiram Garcia.

Respectfully submitted

Babbage Consultants Limited



Charlotte Lucas

Environmental Consultant



Hiram Garcia

Principal Environmental Consultant

I have assessed the site in accordance with current New Zealand Regulations and guidance documents and reported in accordance with the current edition of Contaminated Land Management Guidelines No 1: Reporting of Contaminated Sites in New Zealand.

I am considered by Babbage Consultants Limited as a suitably qualified and experienced practitioner (SQEP) pursuant to the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011, based on the company's definition of a SQEP as given below.

Name: Hiram Garcia



Signed:

Date: 26/08/2024

Babbage Consultants Limited: SQEP Definition

 $Babbage\ Consultants\ Limited\ requires\ that\ a\ SQEP\ has\ the\ following\ Qualifications/Experience:$

- Tertiary education in environmental science, engineering, or other relevant field;
- Ten years of relevant post graduate environmental experience;
- A commitment to continuing professional development; and
- Full membership of an appropriate professional body requiring a commitment to operating in accordance with a
 professional code of ethics.

Date	Version	eTrack No.	Author(s)	Reviewer(s)
22/05/2024	Rev0	200047967	Charlotte Lucas	Hiram Garcia
05/07/2024	Rev1	200048181	Charlotte Lucas	Hiram Garcia
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26/08/2024	Rev3	200048456	Charlotte Lucas	Hiram Garcia





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1 INTRODUCTION AND BACKGROUND

Babbage has been engaged by DSES to undertake a PSI at 1352 Homebush Road, Darfield, Selwyn District (the site) to support DSES's site development (See Figure 1).

The scope of work for the PSI was set out in our proposal dated 8 March 2024 which does not include a site visit. The key aims of the PSI were to determine:

- The site history based on historical aerials, Environment Canterbury Regional Council Listed Land
 Use Register (ECAN LLUR) and a landowner interview, whether historic use is likely to have
 resulted in ground contamination and verify whether activities detailed on the HAIL, issued by the
 Ministry for the Environment (MfE)², apply to the site.
- Nature and source of potential contaminants if applicable.
- Known or potential human and ecological receptors that could be exposed to contaminants if applicable.
- Known or potential pathways by which identified receptors could be exposed to potential contaminants under current or known proposed future land use if applicable.

The site identification details are presented in Table 1.

Table 1. Site identification.

Address	Legal description	Area (m²)
1352 Homebush Road	Lot 2 DP 60325 (Lot 2)	1,073,406
	Lot 1 DP 434071 (Lot 1)	469,240

Note: Source - Land Information New Zealand (LINZ) data service website³.

It is understood that DSES plans to develop the site as a solar power generation facility.

The PSI performed follows the general reporting and investigation methodology presented in the MfE Contaminated Land Management Guidelines (CLMG) No. 1⁴.

⁴ MfE 2021. Contaminated Land Management Guidelines No. 1. Reporting on Contaminated Sites in New Zealand (Revised 2021)



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² MfE 24 March 2021. Land – Guidance and guidelines on contaminated land. Retrieved from https://www.mfe.govt.nz/land/hazardous-activities-and-industries-list-hail

³ LINZ data service 22 March 2024. Retrieved from https://data.linz.govt.nz/layer/50772-nz-primary-parcels





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CLIENT / PROJECT

DARFIELD SOLAR AND ENERGY STORAGE LIMITED

1352 HOMEBUSH ROAD, DARFIELD, SELWYN DISTRICT

SITE LOCATION PLAN

MAP REVISIONS

17/04/2024 Initial version by CL. 08/08/2024 Revised version by CL

Legend

Site Boundary --- Lot Boundary

Aerial Images: LINZ Basemap

DISCLAIMER:

This map/plan is not an engineering

This map/plan is illustrative only and all information should be independently verified on site before taking any action.

@ A3



2 SITE DESCRIPTION

The site is located north of Homebush Road, in the suburb of Darfield, within the Selwyn District of Canterbury. The site is currently used as pastoral and agricultural land.

The Canterbury Maps Viewer website⁵ shows the site is sloping from northwest to southeast with a fall of approximately 20 meters (m). Stormwater surface runoff generated at the site appears to discharge straight to soakage onsite.

Published geological information⁶ shows the site to be underlain by the Pakihi Supergroup consisting of un-weathered, brownish-grey, variable mix of gravels, sand, silt, and clay in low river terraces; locally up to 2m silt cap.

The current surrounding property use is presented in Table 2.

Table 2. Surrounding property use.

Direction	Observation	
North	To the north of the site is Auchenflower Road with agricultural and pastoral	
	properties beyond.	
South	To the south of the site is Homebush Road and McHughs Plantation Reserve with	
	pastoral and residential properties beyond.	
East	To the east of the site are pastoral and agricultural properties with scattered	
	residential dwellings.	
West	To the west of the site is Fonterra Darfield facility with agricultural properties as	
	West Coast Road beyond.	

Note: Source – Based on information from LINZ Database website and Canterbury Map Viewer.

3



⁵ Environment Canterbury Regional Council. 17 April 2024. Canterbury Map Viewer. Retrieved from https://mapviewer.canterburymaps.govt.nz

⁶ Institute of Geological and Nuclear Sciences (GNS). 26 March 2024.Geology 2.0.0 Webmap NZ 1:250k Geological unit. Retrieved from https://data.gns.cri.nz/geology/index.html?map=NZ%20Geology .



3 HISTORICAL SITE USE

Babbage has reviewed historic aerial photographs dating back to 1941 held on the Retrolens website⁷ and LINZ Database. A summary of selected historic aerial photography is presented in Table 3 and the historical aerial photographs are shown in Appendix A.

Table 3. Summary of historical aerial photographs.

Year	Site	Surrounding land use
1941	The site appears to be used for agricultural	The site is surrounded by mostly pastoral and
	and pastoral (Lot 2) activities with forestry	agricultural land use. Some residential properties
	(Lot 1).	are scattered to the south, east and west. West
		Coast Road and Homebush Road are established.
1985	No significant changes to site.	Site surrounds still predominantly pastoral and
		agricultural.
2004-	No significant changes to site.	A dwelling has been established within 1352
2010		Homebush Road along the southern boundary
		but is not part of the site.
2012	The forestry activity on Lot 1 is no longer	Directly west of the site appears to be an
	visible and appears to be used for pastoral	industrial facility under development.
	land use.	
2019	No significant changes to site use.	The industrial property is now established to the
		west of the site.

3.1 List Land Use Register Enquiry

A property statement was obtained from ECAN LLUR⁸ on 26th March 2024. The response is provided in Appendix B and the web entry summarised below:

'The Listed Land Use Register does not currently have any information about a Hazardous Activities and Industries List on your selected site.'

⁸ Environment Canterbury Regional Council 26 March 2024. Retrieved from https://llur.ecan.govt.nz/home



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⁷ Local Government Geospatial Alliance 26 March 2024. Retrolens Historic Image Resource. Retrieved from http://retrolens.nz/



3.2 Landowner Interview

Babbage received a response from the landowner at the time of this report on 4 April 2024 about the site. The response is summarised below and can be found in Appendix C:

- Prior to the current landowner 104 hectare (ha) (Lot 2) was used for pastoral farming and 46ha
 (Lot 1) for forestry.
- On the site 20ha of kale has been planted for the last 20 years and rotated annually for winter
 greenfeed for sheep. Each paddock is in kale for 10 months every 7-8 years. Herbicides and
 pesticides are used on the kale however they are mixed and stored offsite. The following chemicals
 are presently used; Glyphosate, versatill, pyrinex (chlorpyrifos), carfentrazone, 2-methyl-4chlorophenoxyacetic (MCPA) and 4-(2-methyl-4-chlorophenoxy)butyric acid (MCPB).
- Prior to 2017, the land was ploughed to a depth of 150-200 millimetres (mm). Post 2017 the land was directly drilled.
- It's noted at on Lot 1 there was a 15x15m hole. This hole has previously been excavated and contained old tree stumps. This was filled and covered with onsite topsoil.
- There is no dwellings or structures on the site.





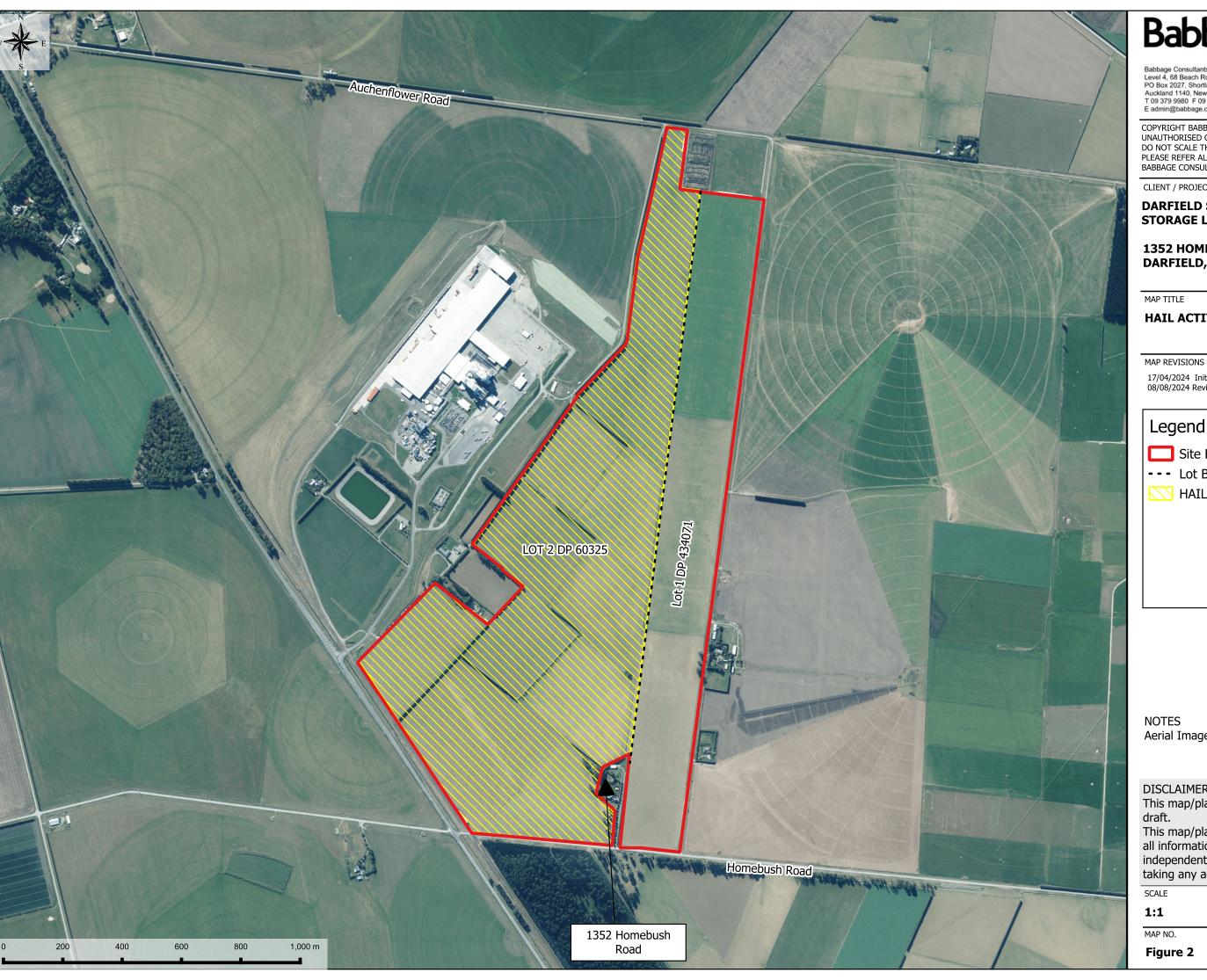
4 POTENTIAL FOR CONTAMINATION

Based on review of historical aerial photographs, ECAN LLUR enquiry, and land landowner interview it is concluded that the site is likely to have an has been subjected to an activity on the HAIL. Activities and locations can be found in Table 4 and mapped on Figure 2.

Table 4. HAIL Activities.

HAIL Item	Description	Location
HAIL Item (A10)	Persistent pesticide bulk	Lot 2, associated with
	storage or use.	agricultural activities since
		1985.





Babbage

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CLIENT / PROJECT

DARFIELD SOLAR AND ENERGY STORAGE LIMITED

1352 HOMEBUSH ROAD, DARFIELD, SELWYN DISTRICT

HAIL ACTIVITY LOCATION PLAN

17/04/2024 Initial version by CL. 08/08/2024 Revised version by CL

Legend

Site Boundary

--- Lot Boundary

HAIL ITEM (A10)

Aerial Images: LINZ Basemap

DISCLAIMER:

This map/plan is not an engineering

This map/plan is illustrative only and all information should be independently verified on site before taking any action.





5 RISK ASSESSMENT

A conceptual site model (CSM) for the site has been developed to assess risk. For a contaminant to present a risk to human health or the environment, the following components are required to be present and connected:

- Sources/Contaminants the known and potential sources of contamination and contaminants of concern.
- Pathways likely and complete exposure pathways by which the identified receptors could be exposed to the contaminants, under current or known proposed future land use.
- Receptors human and ecological receptors.

Based on the data for the site, the potential source, pathway and receptor linkages are presented in Table 5.

Table 5. Conceptual site model.

Source	Exposure pathway	Potential receptor	Acceptable risk?
Organochlorine pesticides	Direct contact.	Site re-development	<u>Lot 2:</u>
(OCPs), Organophosphate	Ingestion of soil.	workers.	Minor
pesticides (OPPs) and	Inhalation of airborne dust.	Current site users.	Due to the area of
metals for agricultural land	Off-site discharge.	Future site users.	application and the
use.		Surrounding residents.	duration of the activity on
		Receiving environment (in	the western portion of the
		surrounds and at disposal	site there may be a
		facility).	potential risk to human
			health or the environment.
			Soil sampling is
			recommended to
			determine actual risk.
			Lot 1:
			Less than minor
			Due to the short
			application time since the
			removal of the forest area
			there is unlikely to be a
			risk to human health or the
			environment.

Based on the source, pathway and receptor linkage, OCPs, OPPs, and metals are likely to have the potential to pose a risk to the health of future land users and/or the environment.





Pursuant to regulation 5(8)(b) of the NESCS, the piece of land is to remain as production land (grazing) and the proposed soil disturbance activity is not related to residential or farmhouse activities, therefore the NESCS does not apply.





6 CONCLUSIONS

Based on the PSI, Babbage concludes the following:

- 1 The site history review indicates that the site has been subjected to an activity on the HAIL.
 - HAIL Item (A10)- Persistent pesticide bulk storage or use.
- 2 The site has potential contaminants in particular OCPs, OPPs, and metals from historical agricultural activities.
- 3 The conceptual site model indicates that there is a potential source and pathway link to human/ecological receptors. The level of risk to human health or the environment is considered minor for Lot 2 and less than minor for Lot 1.
- 4 Pursuant to regulation 5(8)(b) of the NESCS, the piece of land is to remain as production land (grazing) and the proposed soil disturbance activity is not related to residential or farmhouse activities, therefore the NESCS does not apply.
- Notwithstanding the minor and less than minor risk assessment, an environmental soil assessment is recommended prior to soil disturbance works on site to assess the level of contamination and required controls during earthworks, if any.





APPLICABILITY AND LIMITATIONS

Restrictions of Intended Purpose

This report has been prepared solely for the benefit of Darfield Solar and Energy Storage Ltd as our client with respect to the brief. The reliance by other parties on the information or opinions contained in the report shall, without our prior review and agreement in writing, be at such party's sole risk.

Legal Interpretation

Opinions and judgements expressed herein are based on our understanding and interpretation of current regulatory standards, and should not be construed as legal opinions. Where opinions or judgements are to be relied on, they should be independently verified with appropriate legal advice.

Maps and Images

All maps, plans, and figures included in this report are indicative only and are not to be used or interpreted as engineering drafts. Do not scale any of the maps, plans or figures in this report. Any information shown here on maps, plans and figures should be independently verified on site before taking any action. Sources for map and plan compositions include LINZ Data and Map Services and local council GIS services. For further details regarding any maps, plans or figures in this report, please contact Babbage Consultants Limited.

Reliability of Investigation

Babbage has performed the services for this project in accordance with the standard agreement for consulting services and current professional standards for environmental site assessment. No guarantees are either expressed or implied.

Recommendations and opinions in this report are based on discrete sampling data. The nature and continuity of matrix sampled away from the sampling points are inferred and it must be appreciated that actual conditions could vary from the assumed model.

There is no investigation that is thorough enough to preclude the presence of materials at the site that presently, or in the future, may be considered hazardous. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants present and considered to be acceptable may in the future become subject to different regulatory standards, which cause them to become unacceptable and require further remediation for this site to be suitable for the existing or proposed land use activities.





Appendix A
Selected Historical Aerials















Appendix B
Listed Land Use Register





Customer Services
P. 03 353 9007 or 0800 324 636

PO Box 345 Christchurch 8140

P. 03 365 3828 F. 03 365 3194 E. ecinfo@ecan.govt.nz

www.ecan.govt.nz

Dear Sir/Madam

Thank you for submitting your property enquiry from our Listed Land Use Register (LLUR). The LLUR holds information about sites that have been used or are currently used for activities which have the potential to cause contamination.

The LLUR statement shows the land parcel(s) you enquired about and provides information regarding any potential LLUR sites within a specified radius.

Please note that if a property is not currently registered on the LLUR, it does not mean that an activity with the potential to cause contamination has never occurred, or is not currently occurring there. The LLUR database is not complete, and new sites are regularly being added as we receive information and conduct our own investigations into current and historic land uses.

The LLUR only contains information held by Environment Canterbury in relation to contaminated or potentially contaminated land; additional relevant information may be held in other files (for example consent and enforcement files).

Please contact Environment Canterbury if you wish to discuss the contents of this property statement.

Yours sincerely

Contaminated Sites Team

Property Statement from the Listed Land Use Register



Visit ecan.govt.nz/HAIL for more information or contact Customer Services at ecan.govt.nz/contact/ and quote ENQ373252

Date generated: 25 March 2024 Land parcels: Lot 2 DP 60325



The information presented in this map is specific to the property you have selected. Information on nearby properties may not be shown on this map, even if the property is visible.

Sites at a glance



Sites within enquiry area

There are no sites associated with the area of enquiry.

More detail about the sites

There are no sites associated with the area of enquiry.

Disclaimer

The enclosed information is derived from Environment Canterbury's Listed Land Use Register and is made available to you under the Local Government Official Information and Meetings Act 1987.

The information contained in this report reflects the current records held by Environment Canterbury regarding the activities undertaken on the site, its possible contamination and based on that information, the categorisation of the site. Environment Canterbury has not verified the

accuracy or completeness of this information. It is released only as a copy of Environment Canterbury's records and is not intended to provide a full, complete or totally accurate assessment of the site. It is provided on the basis that Environment Canterbury makes no warranty or representation regarding the reliability, accuracy or completeness of the information provided or the level of contamination (if any) at the relevant site or that the site is suitable or otherwise for any particular purpose. Environment Canterbury accepts no responsibility for any loss, cost, damage or expense any person may incur as a result of the use, reference to or reliance on the information contained in this report.

Any person receiving and using this information is bound by the provisions of the Privacy Act 1993.



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Thank you for submitting your property enquiry from our Listed Land Use Register (LLUR). The LLUR holds information about sites that have been used or are currently used for activities which have the potential to cause contamination.

The LLUR statement shows the land parcel(s) you enquired about and provides information regarding any potential LLUR sites within a specified radius.

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The LLUR only contains information held by Environment Canterbury in relation to contaminated or potentially contaminated land; additional relevant information may be held in other files (for example consent and enforcement files).

Please contact Environment Canterbury if you wish to discuss the contents of this property statement.

Yours sincerely

Contaminated Sites Team

Property Statement from the Listed Land Use Register



Visit ecan.govt.nz/HAIL for more information or contact Customer Services at ecan.govt.nz/contact/ and quote ENQ373253

Date generated: 25 March 2024 Land parcels: Lot 1 DP 434071



The information presented in this map is specific to the property you have selected. Information on nearby properties may not be shown on this map, even if the property is visible.

Sites at a glance



Sites within enquiry area

There are no sites associated with the area of enquiry.

More detail about the sites

There are no sites associated with the area of enquiry.

Disclaimer

The enclosed information is derived from Environment Canterbury's Listed Land Use Register and is made available to you under the Local Government Official Information and Meetings Act 1987.

The information contained in this report reflects the current records held by Environment Canterbury regarding the activities undertaken on the site, its possible contamination and based on that information, the categorisation of the site. Environment Canterbury has not verified the

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Any person receiving and using this information is bound by the provisions of the Privacy Act 1993.



Appendix C

Landowner Interview



104 ha + 46 ha.

General Ouestions for PSI/DSI 104 ha pastural farming 46 ha Forestry, converted to pasture Current Owner What was the land used for before you bought it? Do you know the contact details of the previous owner? 104 ha, deceased Were there any buildings on the land when you bought it? (If have buildings, go to Q4; NOW Selwyn DC. otherwise, go to Q7) otherwise, go to Q7) If so, are these still present? Or have they been demolished? (If demolished, go to Q5; otherwise, go to Q6) If demolished, where were the demolition materials taken? Did those buildings contain any asbestos? During the Current Owner's Ownership What are the types of buildings on the site? (If buildings already present; go to Q8; otherwise, go to Q9) No buildings on site When were they built? What has been the main use of the land? (If used for agriculture; go to Q10; otherwise, go to Q11) 104 ha pastural turning 46 ha exturestry Were there any cattle, sheep dips or footrot troughs? Were there any crops grown e.g. vegetables, fruits or others e.g. maize? (If crops grown, go to Q12; otherwise, go to Q13) Winter green leed for theep Where were the crops planted and how long have they been there e.g. 19xx - 19xx? And were they the same crops grown i.e. year after year?

20 na Kale, rotated annually

Were there any greenhouses/shadehouses? (If there are greenhouses/shadehouses, go to Q14; otherwise go to Q15) What was grown in these and for how long? Are these still present? (If demolished, go to Q15; otherwise go to Q16) Where were the demolition materials taken? Any excavations or fill (fill = material brought onto site from elsewhere) that he knows of?

A small area on the 46 ha (aprox 15 m x 15n) was filled with on site

Material when land wes converted from foresty to pasture.

Were there any fuels e.g. diesel and petrol stored on site (past/present)? (If have fuels stored, go to Q18; otherwise, go to Q19) Where were the fuels stored i.e. Above-ground Storage Tank (AST) and Under-ground Storage Tank (UST)? When were they removed? Were any chemicals used on site? E.g. DDT and copper spray. (If chemicals have been used, go to Q20; otherwise, go to Q24) Common Herb. cides and pesticides, for weeds in young grass and pests in Kale. 20 ha annually.
What are the names of the chemicals? Where are they stored and for how long? How were they
what are the names of the chemicals? Where are they stored and for how long? How were they
applied? Glysophate, Versall, Pyrinex, Carfedrazone, MCPA MCPB,
applied off site. Applied by registered chemical applicator.

Have there been any chemical spills/leaks. Have there been any chemical spills/leaks. (If there was spill/leak, go to Q22; otherwise, go to Q23) Where and when was the spill/leak? What chemicals were they? Where were any mixing places? E.g. tanks or containers or taps where sprays were mixed. off site. Has the property been ploughed or cultivated? (If the property has been ploughed/cultivated go to Q25; otherwise, go to Q26) All land plouged (20 ha per year) prior to 2017, to a depth of 150-200 mm. Direct drilled there after. If the property has been ploughed/cultivated. Where was this? When was it ploughed/cultivated

Any ideas of where there might be "hotspots" of land contamination?

and to what depth?

No

Have any forestry activities occurred on the land or near by? Yes 46 ha block.



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