

Statement from the Listed Land Use Register



PO Box 345, Christchurch

General enquiries: 03 365 3828

Fax: 03 365 3194

Email: ecinfo@ecan.govt.nz

Customer services: 03 353 9007

or: 0800 EC INFO (0800 324 636)

Website: www.ecan.govt.nz

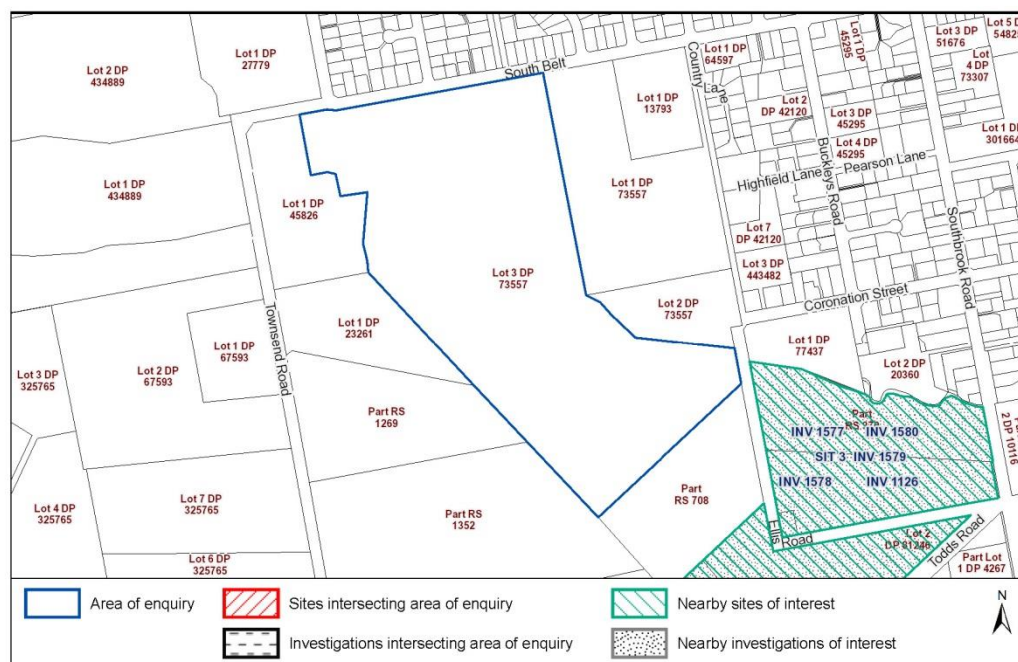
Date:

10 October 2013

Land Parcels:

• Lot 3 DP 73557

Valuation No(s): 2159120656



Summary of sites:

Site ID	Site Name	Location	HAIL Activity(s)	Category
3	McAlpines Ltd	1 Southbrook Road, Rangiora	A18 - Wood treatment or preservation and bulk storage of treated timber	Partially Investigated

Please note that the above table represents a summary of sites intersecting the area of enquiry within a 50m buffer.

Information held about the sites on the Listed Land Use Register

Site 3: McAlpines Ltd (Within 50m of enquiry area.)

Site Address:

1 Southbrook Road, Rangiora

Legal Description:

Pt RS 370; Pt RS 370; Lot 1 DP 81246; Pt RS 370; Lot 2 DP 81246

Site Category:

Partially Investigated

Definition:

Verified HAIL has been partially investigated.

Land uses (from HAIL):

Period From	Period To	HAIL land use
1965	current	Wood treatment or preservation including the commercial use of anti-sapstain chemicals during milling, or bulk storage of treated timber outside

Notes

7 Mar 2005 Lot 1 DP 10993 is also owned by McAlpines, and may have been used for timber treatment activities.

9 Mar 2005 Site has the following consents:
CRC990537 - To discharge contaminants and water into water
CRC980297 - Discharge of contaminants to land
CRC042292 - To place and use containers on or over land
CRC990171 - To place onto land seven structures (six above ground storage tanks and a timber treatment cylinder) for storing, transferring and using timber treatment chemicals at or about map reference
CRC980297 - To discharge stormwater from a sawmill and timber treatment site to land and to No.7 Drain

9 Jan 2006 The treatment plant has been in operation since the 1960s. It is estimated that less than one tonne of NaPCP was used on this site in the period of 14 years between 1965 and 1979. PCP was used in a spray tunnel, pressure treatment and in hand held spraying of posts in the yard. A PCP spill onto the ground beneath the spray tunnel occurred in 1970.

CCA pressure treatment began in the 1960s and is still being carried out. On 4/8/1995, up to 5000L of 2.6% CCA solution was spilled. Sawdust was used to cover the floor of the drain, and it was later dug out and stored until disposal arrangements were made. The IN7C/431 file contains the full details of the spill response.

Boron treatment also occurs on the site. In 2004 McAlpines Ltd applied and received a resource consent to store containers for storing LOSP chemicals. LOSP treatment facility will be carried out on Lot 2 DP 81246, the land parcel on the south of Ellis Road, inside a roofed and fully bunded building.

Details relating to the current timber treatment activities are available in the consent files.

12 Nov 2008 In August 2008 the Ministry for the Environment carried out an investigation into all former and currently operating timber treatment sites in New Zealand. The investigation identified the potential for an undetermined level of contamination to be present in the soil of this property due to its former use as a sawmill at a time when it was common practice to use pentachlorophenol (PCP). Dioxins may be present in soil on the site, especially in areas where PCP was applied to timber. As a precaution, and in the absence of soil test information, the following measures would minimise exposure to contamination:
1 - avoid consuming animal produce (eg chickens, eggs, other livestock) grown on the property
2 - Vegetables can be grown safely in a raised bed using clean imported soil.

2 Dec 2008 The information for this site was reviewed on 14/04/2008 and a LLUR updated category of "Partially Investigated" proposed. The file includes some information about investigation and sampling previously, but this was targeted and not sufficient to characterise the site.

Investigations

13 Jun 1983 INV 1577: Timber Treatment Plant Survey
North Canterbury Catchment Board

19 Feb 1991 INV 1578: Timber Treatment Plant Survey
ECan

30 Apr 1993 INV 1126: Preliminary Survey of Pentachlorophenol Use in the Timber Industry in Canterbury
Loe Pearce & Associates

Summary of investigation(s)

Site established 1965. Sawmill rebuilt 1970. Possible dumping of a large volume of sawdust in Fernside Pit in 1975/76. No soil samples collected.

1 Feb 1994 INV 1579: Interim Report on Pentachlorophenol Contaminated Site Investigations - Preliminary Assessment of Schedule 2 Sites.
Pattle Delamore Partners Ltd

1 Jun 1994 INV 1580: Pentachlorophenol Contamination Investigation - Recommendation for Further Investigations.
Pattle Delamore Partners Ltd

Summary of investigation(s)

Report(s) have not yet been audited.

For further information from Environment Canterbury, contact the Contaminated Sites Officer and refer to enquiry number 21335.

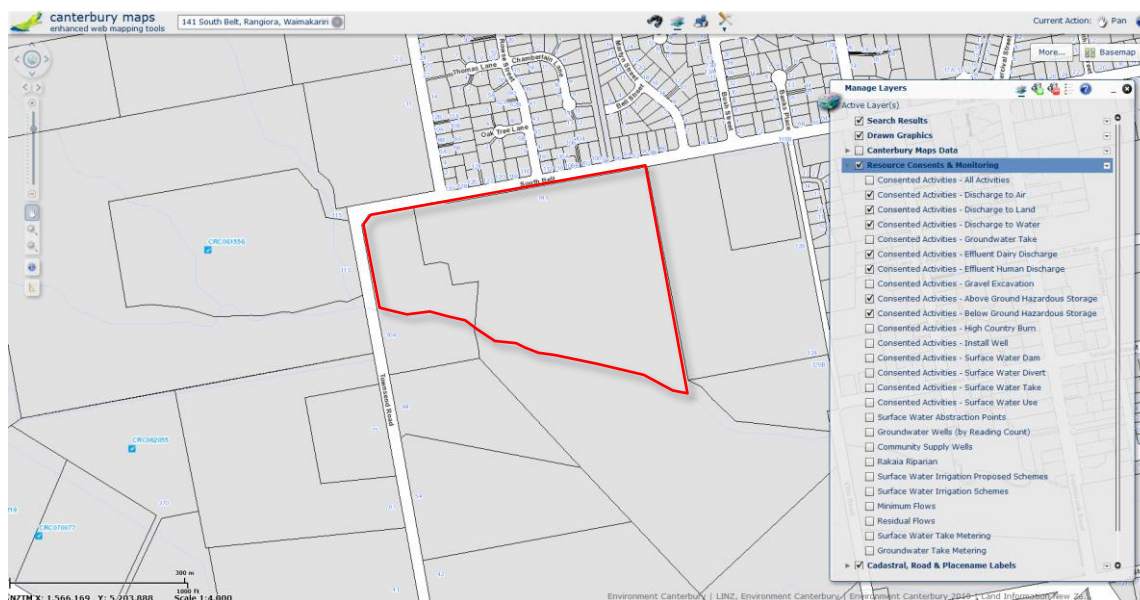
Disclaimer:

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 and Environment Canterbury's Contaminated Land Information Management Strategy (ECan 2009).

This information reflects Environment Canterbury's current understanding of this site, which is based only on the information thus far obtained by it and held on record concerning this site. It is released only as a copy of those records and is not intended to provide a full, complete or totally accurate assessment of the site. As a result, Environment Canterbury is not in a position to warrant that the information is complete or without error and accepts no liability for any inaccuracy in, or omission from, this information.

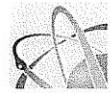
Any person receiving and using this information is bound by the provisions of the Privacy Act 1993.

Attachment D: Environment Canterbury Resource Consents



Note: Screen clipping from Environment Canterbury's resource consent database. No discharge consents to air, soil or water, above or below ground hazardous storage consents are issued for the site.

Attachment E: Chain of Custody and Laboratory Results


Hill Laboratories
BETTER TESTING BETTER RESULTS

Client

Name Eliot Sinclair & Partners Ltd

Address PO Box 9339, Tower Junction, Christchurch 8149

Phone 03 379 4014

Fax

Client Reference 196916

Quote No. Order Number

Primary Contact Jens Zollhofer

Submitted By *[Signature]*Charge To *ESP*Results To ☐ Mail Client ☐ Mail Submitter☐ Fax Results☒ Email Results *june@eliot-sinclair.co.nz*

ADDITIONAL INFORMATION

Sample Types

Waters	E	Effluent	G	Geothermal	Pot1	Potable Water (LAS/EU)	Pot2	Potable Water (NZDWS)
	GW	Ground Water	L	Leachate	<input type="checkbox"/>	Audit Monitoring	Pot3	Potable Water (other)
	SW	Surface Water	S	Saline	<input type="checkbox"/>	Check Monitoring	Pool	Swimming/Spa Pool
	TW	Trade Waste						
Solids	ES	Soil	SE	Sediment	SL	Sludge	PL	Plant
	O	Oil	M	Miscellaneous	FS	FS Fish/shell/fish/biota	BM	BM Biological Material

No.	Sample Name	Sample Date & Time	Sample Type	Tests Required
1	S1 Burn Pad 0-50	14/11/13	Soil	As, Cr, Cu, Pb, Hg
2	S2 Burn Pad 0-50	"	"	" " " " "
3				
4	S3a Chicken feed 0-50	"	"	OCP, As, Cr, Cu, Pb, Hg
5	S3b Chicken feed 200-300	"	"	held cold
6	S4a 0-50	"	"	OCP
7	S4b 200-300	"	"	held cold
8	S5a 0-50	"	"	OCP
9	S5b 200-300	"	"	held cold
10	S6a 0-50	"	"	OCP, As, Cr, Cu, Pb, Hg

Continued on next page

KB Item: 23775 Version: 2

ANALYSIS

R J Hill Laboratories Limited
1 Clyde Street
Private Bag 3205
Hamilton 3240, New Zealand

Job No: Date Recv: 14-Nov-13 16:34

120 3380

Received by: Katherine Draffin



Office use only Job No: 3112033808

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories	Date & Time:
Name:	
<input checked="" type="checkbox"/> Please tick if you require COC to be faxed back	Signature:
Received at Hill Laboratories	Date & Time: 14 Nov 13 17:05
Name: <i>[Signature]</i>	
Signature: <i>[Signature]</i>	
Condition	Temp: 14.6C
<input type="checkbox"/> Room Temp <input checked="" type="checkbox"/> Chilled <input type="checkbox"/> Frozen	
<input type="checkbox"/> Sample Analysis details checked	
Signature:	

Priority

☐ Low ☐ Normal ☒ High
☐ Urgent (ASAP, extra charge applies, please contact the lab first)

Requested Reporting Date:



Hill Laboratories
BETTER TESTING BETTER RESULTS

R J Hill Laboratories Limited
1 Clyde Street
Private Bag 3205
Hamilton 3240, New Zealand
Tel +64 7 858 2000
Fax +64 7 858 2001
Email mail@hill-labs.co.nz
Web www.hill-labs.co.nz

ANALYSIS REPORT

Page 1 of 3

Client:	Eliot Sinclair & Partners Limited	Lab No:	1203380	SPv2
Contact:	Jens Zollhofer	Date Registered:	15-Nov-2013	
	C/- Eliot Sinclair & Partners Limited	Date Reported:	26-Nov-2013	
	PO Box 9339	Quote No:		
	Tower Junction	Order No:		
	CHRISTCHURCH 8149	Client Reference:	196916	
		Submitted By:	Jens Zollhofer	

Amended Report

This report replaces an earlier report issued on the 22 Nov 2013 at 1:06 pm
Cadmium added to samples 1203380.1 & .2 at clients request.

Sample Type: Soil						
Sample Name:		S1 Burn Pad 0-50 14-Nov-2013	S2 Burn Pad 0-50 14-Nov-2013	S3a Chicken Shed 0-50 14-Nov-2013	S4a 0-50 14-Nov-2013	S5a 0-50 14-Nov-2013
Lab Number:		1203380.1	1203380.2	1203380.3	1203380.5	1203380.7
Individual Tests						
Total Recoverable Arsenic	mg/kg dry wt	23	8	10	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.10	0.12	-	-	-
Total Recoverable Chromium	mg/kg dry wt	26	18	19	-	-
Total Recoverable Copper	mg/kg dry wt	25	12	14	-	-
Total Recoverable Lead	mg/kg dry wt	35	33	64	-	-
Total Recoverable Mercury	mg/kg dry wt	< 0.10	< 0.10	< 0.10	-	-
Organochlorine Pesticides Screening in Soil						
Aldrin	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
alpha-BHC	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
beta-BHC	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
delta-BHC	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
gamma-BHC (Lindane)	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
cis-Chlordane	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
trans-Chlordane	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Total Chlordane [(cis+trans)* 100/42]	mg/kg dry wt	-	-	< 0.04	< 0.04	< 0.04
2,4'-DDD	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
4,4'-DDD	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
2,4'-DDE	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
4,4'-DDE	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
2,4'-DDT	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
4,4'-DDT	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Dieldrin	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Endosulfan I	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Endosulfan II	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Endosulfan sulphate	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Endrin	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Endrin Aldehyde	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Endrin ketone	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Heptachlor	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Heptachlor epoxide	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Hexachlorobenzene	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010
Methoxychlor	mg/kg dry wt	-	-	< 0.010	< 0.010	< 0.010



This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.
The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked *, which are not accredited.

Sample Type: Soil						
Sample Name:		S6a 0-50 14-Nov-2013	S7a 0-50 14-Nov-2013	S8a 0-50 14-Nov-2013		
Lab Number:		1203380.9	1203380.10	1203380.12		
Individual Tests						
Total Recoverable Arsenic	mg/kg dry wt	11	-	-	-	-
Total Recoverable Chromium	mg/kg dry wt	21	-	-	-	-
Total Recoverable Copper	mg/kg dry wt	12	-	-	-	-
Total Recoverable Lead	mg/kg dry wt	30	-	-	-	-
Total Recoverable Mercury	mg/kg dry wt	< 0.10	-	-	-	-
Organochlorine Pesticides Screening in Soil						
Aldrin	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
alpha-BHC	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
beta-BHC	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
delta-BHC	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
gamma-BHC (Lindane)	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
cis-Chlordane	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
trans-Chlordane	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Total Chlordane [(cis+trans)* 100/42]	mg/kg dry wt	< 0.04	< 0.04	< 0.04	-	-
2,4'-DDD	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
4,4'-DDD	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
2,4'-DDE	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
4,4'-DDE	mg/kg dry wt	< 0.010	< 0.010	0.012	-	-
2,4'-DDT	mg/kg dry wt	< 0.010	< 0.010	0.014	-	-
4,4'-DDT	mg/kg dry wt	0.017	< 0.010	0.054	-	-
Dieldrin	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Endosulfan I	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Endosulfan II	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Endosulfan sulphate	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Endrin	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Endrin Aldehyde	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Endrin ketone	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Heptachlor	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Heptachlor epoxide	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Hexachlorobenzene	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-
Methoxychlor	mg/kg dry wt	< 0.010	< 0.010	< 0.010	-	-

SUMMARY OF METHODS

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis.

Sample Type: Soil			
Test	Method Description	Default Detection Limit	Sample No
Environmental Solids Sample Preparation	Air dried at 35°C and sieved, <2mm fraction. Used for sample preparation. May contain a residual moisture content of 2-5%.	-	1-3, 9
Organochlorine Pesticides Screening in Soil	Sonication extraction, SPE cleanup, dual column GC-ECD analysis (modified US EPA 8082).. Tested on dried sample	-	3, 5, 7, 9-10, 12
Total Recoverable digestion	Nitric / hydrochloric acid digestion. US EPA 200.2.	-	1-3, 9
Total Recoverable Arsenic	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	2 mg/kg dry wt	1-3, 9
Total Recoverable Cadmium	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	0.10 mg/kg dry wt	1-2
Total Recoverable Chromium	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	2 mg/kg dry wt	1-3, 9
Total Recoverable Copper	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	2 mg/kg dry wt	1-3, 9
Total Recoverable Lead	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	0.4 mg/kg dry wt	1-3, 9

Sample Type: Soil			
Test	Method Description	Default Detection Limit	Sample No
Total Recoverable Mercury	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	0.10 mg/kg dry wt	1-3, 9

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

This report must not be reproduced, except in full, without the written consent of the signatory.



Martin Cowell - BSc
Client Services Manager - Environmental Division

Attachment F: Chain of Custody and Laboratory Results:
Validation Sampling

Hill Laboratories		ANALYSIS 130 3294		
BETTER TESTING BETTER RESULTS		Job No: Date Recd: 25-Jul-14 17:14		
Client		R J Hill Laboratories Limited		
Name: Eliot Sinclair & Partners Ltd		1 Clyde Street		
Address: PO Box 8339, Tower Junction, Christchurch 8149		Private Bag 3205		
Phone: 03 379 4014 / 0210 477 981		Hamilton 3240, New Zealand		
Client Reference: 1303294		Received by: Emily Anderson		
Quote No: Order Number:		3112232940 2-labus.co.nz		
Primary Contact: Jens Zollhofer		Office use only Job No:		
Submitted By: Carly Fleming		CHAIN OF CUSTODY RECORD		
Charge To: Eliot Sinclair		Sent to: Hill Laboratories		
Results To: <input type="checkbox"/> Mail Client <input type="checkbox"/> Mail Submitter		Date & Time:		
<input type="checkbox"/> Fax Results		Name:		
<input checked="" type="checkbox"/> Email Results: Jens.zollhofer@eliot-sinclair.co.nz		Signature:		
ADDITIONAL INFORMATION		Received at: Hill Laboratories		
		Date & Time:		
		Name:		
		Signature:		
		Condition:		
		<input type="checkbox"/> Room Temp <input type="checkbox"/> Chilled <input type="checkbox"/> Frozen Temp: 10.0		
		<input type="checkbox"/> Sample Analysis details checked		
		Signature:		
		Priority:		
		<input type="checkbox"/> Low <input type="checkbox"/> Normal <input checked="" type="checkbox"/> High		
		<input type="checkbox"/> Urgent (ASAP, extra charge applies, please contact the lab first)		
		Requested Reporting Date:		
Sample Types				
Waters: E Effluent G Groundwater L Leachate P Potable Water (LASH) P2 Potable Water (NZDWS)				
GW Groundwater L Leachate P Potable Water (LASH) P2 Potable Water (NZDWS)				
SW Surface Water S Seepage A Acid Monitoring P2 Potable Water (NZDWS)				
TW Trade Waste S Seepage A Acid Monitoring P2 Potable Water (NZDWS)				
S Solids (FS) Sol SE Sediment SL Sludge PL Plaster				
Other: O Oils M Miscellaneous FS FS Fertiliser/Seawater BM Biological Material				
Sample Name		Sample Date & Time	Sample Type	Tests Required
1 S1 50-150	25/07/14	Soil	As	
2 S2 50-150	25/07/14	LI	As	
3 S3 50-150	25/07/14	LI	As	
4 S4 150-250	25/07/14	LI	Hold Cold	
5				
6				
7				
8				
9				
10				

KB Item: 23775 Version: 2

Continued on next page



Hill Laboratories
BETTER TESTING BETTER RESULTS

R J Hill Laboratories Limited
1 Clyde Street
Private Bag 3205
Hamilton 3240, New Zealand
Tel +64 7 858 2000
Fax +64 7 858 2001
Email mail@hill-labs.co.nz
Web www.hill-labs.co.nz

ANALYSIS REPORT

Page 1 of 1

Client:	Eliot Sinclair & Partners Limited	Lab No:	1303294	SPv1
Contact:	Jens Zollhofer C/- Eliot Sinclair & Partners Limited PO Box 9339 Tower Junction CHRISTCHURCH 8149	Date Registered:	26-Jul-2014	
		Date Reported:	30-Jul-2014	
		Quote No:		
		Order No:		
		Client Reference:	196916	
		Submitted By:	Carly Fleming	

Sample Type: Soil					
Sample Name:	S1 50-150 25-Jul-2014 10:45 am	S2 50-150 25-Jul-2014 10:50 am	S3 50-150 25-Jul-2014 11:00 am		
Lab Number:	1303294.1	1303294.2	1303294.3		
Total Recoverable Arsenic mg/kg dry wt	7	12	21	-	-

SUMMARY OF METHODS

The following table(s) give a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis.

Sample Type: Soil			
Test	Method Description	Default Detection Limit	Sample No
Environmental Solids Sample Preparation	Air dried at 35°C and sieved, <2mm fraction. Used for sample preparation. May contain a residual moisture content of 2-5%.	-	1-3
Total Recoverable digestion	Nitric / hydrochloric acid digestion. US EPA 200.2.	-	1-3
Total Recoverable Arsenic	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	2 mg/kg dry wt	1-3

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

This report must not be reproduced, except in full, without the written consent of the signatory.

Carole Rodgers-Carroll BA, NZCS
Client Services Manager - Environmental Division



This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised. The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked *, which are not accredited.


Hill Laboratories
BETTER TESTING BETTER RESULTS

Client

Name Eliot Sinclair & Partners Ltd

Address PO Box 9339, Tower Junction, Christchurch 8149

Phone 03 379 4014 / 0210 477 981

Client Reference 141 South Belt Rd, Rangiora 196916

Quote No _____ Order Number _____

Primary Contact Jens Zollhofer

Submitted By [Signature]

Charge To _____

Results To ☐ Mail Client ☐ Mail Submitter☐ Fax Results☒ Email Results Jens.zollhofer@eliot Sinclair.co.nz

ADDITIONAL INFORMATION

--

ANALYSIS

Job No: _____ Date Recv: 03-Sep-14 15:03

132 0464

R J Hill Laboratories Limited

1 Clyde Street

Private Bag 3205

Hamilton 3240, New Zealand

Received by: Melody Gall



3113204643

Office use only Job No: _____

CHAIN OF CUSTODY RECORD

Sent to _____ Date & Time: _____

Hill Laboratories

Name: _____

☒ Please tick if you
require COC to be faxed back

Signature: _____

Received at _____ Date & Time: _____

Hill Laboratories

Name: MelodySignature: [Signature]

Condition

☒ Room Temp ☐ Chilled ☐ FrozenTemp: 21.8°C☐ Sample Analysis details checked

Signature: _____

Priority

☐ Low ☐ Normal ☒ High☐ Urgent (ASAP, extra charge applies, please contact the lab first)

Requested Reporting Date: _____

Sample Types

Waters	E	Effluent	G	Geothermal	Pot1	Potable Water (LAS/EU)	Pot2	Potable Water (NZDWS)
	GW	Ground Water	L	Leachate	<input type="checkbox"/>	Audit Monitoring	Pot3	Potable Water (other)
	SW	Surface Water	S	Saline	<input type="checkbox"/>	Check Monitoring	Pool	Swimming/Spa Pool
	TW	Trade Waste						
Solids	ES	Soil	SE	Sediment	SL	Sludge	PL	Plant
Other	O	Oil	M	Miscellaneous	FS	Fish/shellfish/biota	BM	BM Biological Material

No.	Sample Name	Sample Date & Time	Sample Type	Tests Required
1	S1 surface port remediation	2/9/14 sat		HMS
2				
3	S2 surface port remediation	"	"	Local cold
4				
5				
6				
7				
8				
9				
10				

Continued on next page

KB Item: 23775 Version: 2



Hill Laboratories
BETTER TESTING BETTER RESULTS

R J Hill Laboratories Limited
1 Clyde Street
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Hamilton 3240, New Zealand
Tel +64 7 858 2000
Fax +64 7 858 2001
Email mail@hill-labs.co.nz
Web www.hill-labs.co.nz

ANALYSIS REPORT

Page 1 of 1

Client:	Eliot Sinclair & Partners Limited	Lab No:	1320464	SPV1
Contact:	Jens Zollhofer	Date Registered:	03-Sep-2014	
	C/- Eliot Sinclair & Partners Limited	Date Reported:	09-Sep-2014	
	PO Box 9339	Quote No:		
	Tower Junction	Order No:		
	CHRISTCHURCH 8149	Client Reference:	Sth Belt Rd, Rangiora 196916	
		Submitted By:	Jens Zollhofer	

Sample Type: Soil

Sample Name:	S1 Surface Post Remediation					
Lab Number:	1320464.1					
Heavy metal screen level As,Cd,Cr,Cu,Ni,Pb,Zn						
Total Recoverable Arsenic	mg/kg dry wt	8	-	-	-	-
Total Recoverable Cadmium	mg/kg dry wt	< 0.10	-	-	-	-
Total Recoverable Chromium	mg/kg dry wt	19	-	-	-	-
Total Recoverable Copper	mg/kg dry wt	10	-	-	-	-
Total Recoverable Lead	mg/kg dry wt	26	-	-	-	-
Total Recoverable Nickel	mg/kg dry wt	15	-	-	-	-
Total Recoverable Zinc	mg/kg dry wt	90	-	-	-	-

SUMMARY OF METHODS

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis.

Sample Type: Soil			
Test	Method Description	Default Detection Limit	Sample No
Environmental Solids Sample Preparation	Air dried at 35°C and sieved, <2mm fraction. Used for sample preparation. May contain a residual moisture content of 2-5%.	-	1
Heavy metal screen level As,Cd,Cr,Cu,Ni,Pb,Zn	Dried sample, <2mm fraction. Nitric/Hydrochloric acid digestion, ICP-MS, screen level.	0.10 - 4 mg/kg dry wt	1
Total Recoverable digestion	Nitric / hydrochloric acid digestion. US EPA 200.2.	-	1

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

This report must not be reproduced, except in full, without the written consent of the signatory.

Peter Robinson MSc (Hons), PhD, FNZIC
Client Services Manager - Environmental Division



This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised. The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked *, which are not accredited.

Attachment G: Waste Management Statement




MA AND BL FAMILY TRUST
104 TOWNSEND ROAD
RANGIORA 7400

Tax Invoice

Page 1 of 1

Tax Invoice Number 14443204
Invoice Date 31 July 2014
Account Number 47676592
Account Enquiries Phone: 3480619 opt 1

GST 94-152-232
47-49 Haytons Road
Sackburn
PO Box 11337
Sackburn
Christchurch 8443
Phone (03) 348 0619
Facsimile (03) 343 0879

Date	Customer Ref	Description	Quantity	Amount
Service Address: 104 TOWNSEND RD RANGIORA			S/A Ref: 75400331	
Gantry		3.00 MT	Purchase Order: CONTAM SOIL	
16/07/2014	CONTAM SOIL	GAN Bin Removal	1	197.50
16/07/2014	CONTAM SOIL	GAN Disposal Tip: 1		777.70
Service Type Total				975.20

Our Payment terms are 20th of the month following the invoice date.
Do you want to receive your invoices and statements via email? If you do please email
ChchCustService@wastemanagement.co.nz with your customer number and email address.

Charges	975.20
GST	146.29
Total Due	1,121.49

If paying by Direct Credit, please pay into bank account: BNZ 02-0224-0427556-04
Quote your account number 47676592 as reference



JANINE CLARKE
104 TOWNSEND ROAD
RANGIORA 7400

Statement

Page 1 of 1

Statement Number 21268725

Statement Date 31 July 2014

Account Number 47676590

Account Enquiries Phone: 3480619 opt 1

47-49 Haytons Road
Sockburn
PO Box 11337
Sockburn
Christchurch 8443

Phone (03) 348 0619
Facsimile (03) 343 0679

Doc Type	Cust No.	Branch	Invoice Date	Invoice Number	Invoice Amount	Payments/ Adjustments	Outstanding Balance Due
SO	47676592	104 TOWNSEND RD RANG	30/06/2014	14346398	81.65	.00	81.65
SO	47676592	104 TOWNSEND RD RANG	31/07/2014	14443204	1,121.49	.00	1,121.49

Grand Total Balance Due 1,203.14

Account Summary:

Opening Balance	81.65
New Invoices	1,121.49
Payments	.00
Adjustments	.00

Current Balance Due 1,203.14



ANY REASON?
FOR THIS OVERDUE ACCOUNT?
IF NOT PLEASE SEND US A CHEQUE

Do you want to receive your invoices and statements via email? If you do please email
ChchCustService@wastemanagement.co.nz with your
customer number and email address.

90 Days & Over	60 Days	30 Days	Current	Balance to Pay
.00	.00	81.65	1,121.49	1,203.14

Please detach and return this portion with your payment

Remittance Advice



Statement No: 21268725
31 July 2014

47-49 Haytons Road
Sockburn
PO Box 11337
Sockburn
Christchurch 8443

Phone (03) 348 0619
Facsimile (03) 343 0679

JANINE CLARKE

90 Days & Over	60 Days	30 Days	Current	Balance to Pay
.00	.00	81.65	1,121.49	1,203.14

Account No. 47676590

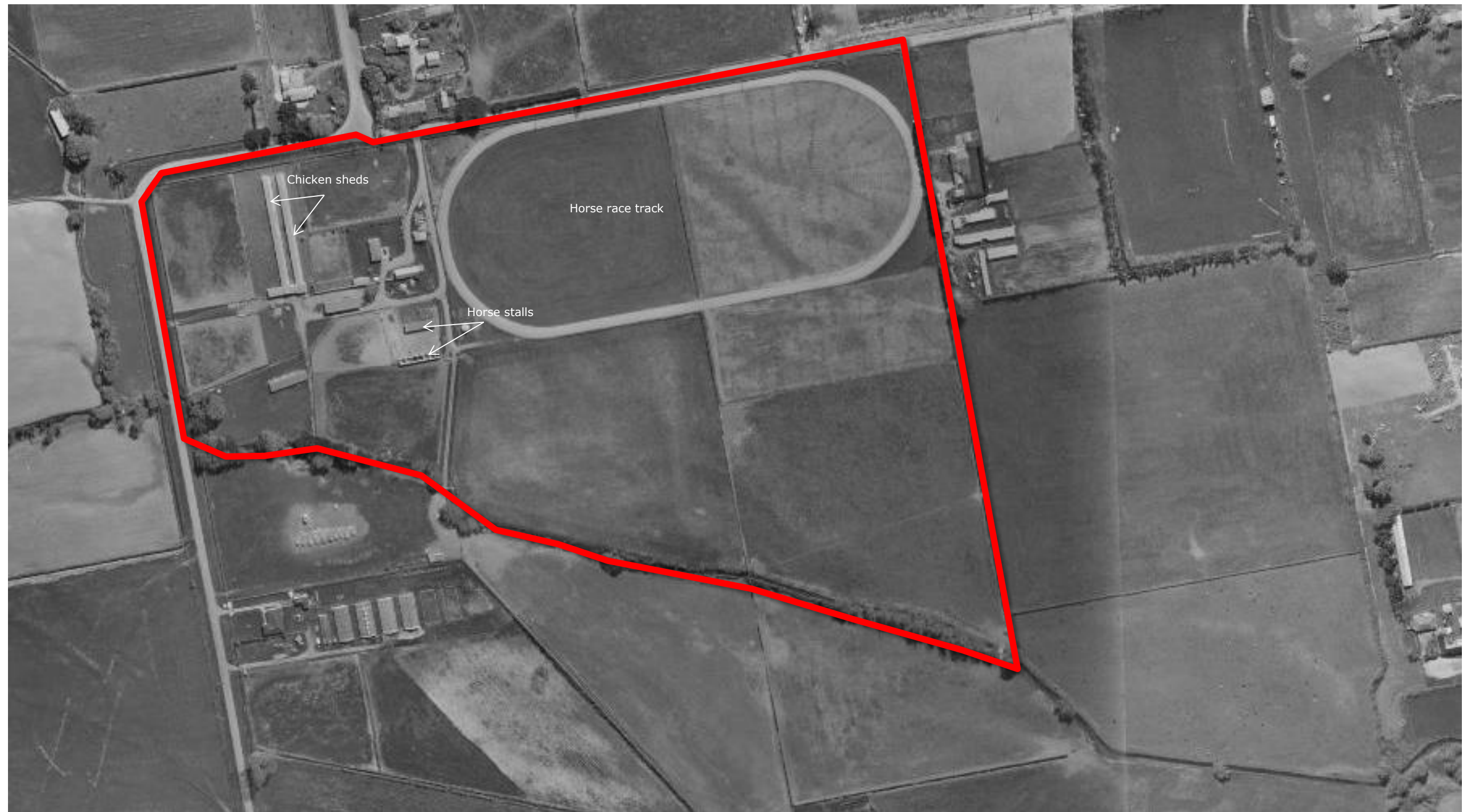
Amount Paid \$

If paying by Direct Credit, please pay into bank account: BNZ 02-0224-0427556-04
Quote your account number 47676590 as reference

Attachment H: Historical Aerial Photograph/Recent Satellite Images



14/10/1941



26/09/1973



01/01/2004



17/02/2013