2nd November, 2023



Mr M Collins Collins Construction Materials Pty Ltd 214 MacArthur Road Elderslie NSW 2570

Dear Matt,

Re: Environmental Monitoring – Spring Farm: Report 2023-10

Our Ref: 201019

This is to confirm that groundwater sampling and dust monitoring at Spring Farm (see Appendix 1 for sample locations) has been carried out with the results summarised in Tables 1 and 2 respectively below.

(a) GROUNDWATER MONITORING

TAE	TABLE 1: SUMMARY OF GROUNDWATER MONITORING RESULTS.										
ANALYTE	VALUE	TARGET	DATE	TIME	TEMP						
EC (uS/cm)	182 (Non-Saline)	< 800 uS/cm									
pH	6.42 (Moderately alkaline)	4 – 6.50	4-10-2023	10.00	21°C						
Depth to Water Table (m) ¹	11.5	> 10 m									

Notes: 1. This value represents the depth to groundwater from the TOP OF THE STAND PIPE (670 mm above ground level); 2. Refer to Appendix 2 for laboratory analysis results and monthly summary data 3 Refer to Appendix 3 for quality control documentation.

The results indicate that groundwater is:

- Non-saline and is well below the nominated target of < 800uS/cm;
- *Moderately alkaline* falling within the nominated pH range of 4 6.50;
- Met the limit of the target depth of > 10 m.

(b) DUST MONITORING

	TABLE 2: SUMMARY OF DUST DEPOSITION MONITORING RESULTS.										
SAMPLING PERIOD LOCATION		TOTAL INSOLUBLE MATTER¹ (g/m2/month)	Ash or Mineral Content (g/m2/month)	COMMENT	EMP targets (Ash or Mineral Content)						
	1	0.8	NTA	Pass							
September	2	0.8	NTA	Pass	≤ 4g / m2 per month						
2023	3	0.9	NTA	Pass	per month						

Notes: 1.Refer to Appendix 1 for monitoring locations. 2. Refer to Appendix 2 for laboratory analysis results and monthly summary data. Refer to Appendix 3 for quality control documentation.

The EMP target values were met at all Monitoring Stations.

Yours faithfully,

Mart Rampe BSc (Applied Geology) Principal Consultant

APPENDIX 1: Collins Spring Farm Monitoring Locations

MS 1: Dust MS 2: Dust MS 3: Dust

GW-1: Groundwater



tical Results and Mor	nthly Summary Data
	tical Results and Mor



CERTIFICATE OF ANALYSIS

Work Order : ES2334011

Client : HARVEST SCIENTIFIC SERVICES

Contact : OFFICE

Address : PO BOX 427

NARELLAN NSW, AUSTRALIA 2567

Telephone : ---Project : ----

Order number : 2023-10

C-O-C number : ----

Sampler : MATT RAMPE

Site : ----

Quote number : EN/333

No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 2

Laboratory : Environmental Division Sydney

Contact : Customer Services ES

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 04-Oct-2023 18:20

Date Analysis Commenced : 05-Oct-2023

Issue Date : 06-Oct-2023 18:51



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 2 Work Order : ES2334011

Client : HARVEST SCIENTIFIC SERVICES

Project · ---



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)	Sample ID			COLLINS GW 1	 	
	Sampling date / time			04-Oct-2023 10:00	 	
Compound	CAS Number	LOR	Unit	ES2334011-001	 	
				Result	 	
EA005P: pH by PC Titrator						
pH Value		0.01	pH Unit	6.42	 	
EA010P: Conductivity by PC Titrator						
Electrical Conductivity @ 25°C		1	μS/cm	182	 	

Groundwater Results

Commer	Depth to Water Table (m)	рН	EC (uS/cm)	Temp. (°C)	Time	Date
Commen	from top of stand pipe	·	, í			
	11.50 11.60	5.00 5.61	409 410	20 22	11:00 10:45	4/01/2016 5/02/2016
	11.60	5.23	399	23	9:00	3/03/2016
	11.40 11.50	5.03 5.77	359 363	23 22	9:00 12:30	6/04/2016 5/05/2016
	11.60	5.47	377	18	2:00	3/06/2016
	10.70 10.70	5.32 6.84	372 261	13 12	12.30 10.00	4/07/2016 3/08/2016
	10.70	5.62	250	12	10.00	5/09/2016
	10.50	6.16	252	12	10.00	1/10/2016
	10.70 10.70	5.93 5.63	296 352	11 12	8.00 8.00	1/11/2016 1/12/2016
	10.70	5.45	363	21	11.00	6/01/2017
	11.10 11.10	5.53 5.25	334 361	22 23	8.30 8.30	3/02/2017 3/03/2017
	10.80	5.46	392	16	8.30	4/04/2017
	10.70 11.00	6.09 5.12	294 373	16 8	10.30 8.00	1/05/2017 1/06/2017
	10.90	5.63	356	2	8.00	3/07/2017
	11.00 11.00	6.00 5.63	346 352	12 12	9.00 9.00	1/08/2017 4/09/2017
	11.10	5.57	349	16	8.00	10/10/2017
	11.00	5.06	326	16	9.00	6/11/2017
	11.20 11.10	5.42 5.72	304 305	18 22	9.00 9.00	5/12/2017 11/01/2018
	11.40	4.94	303	25	10.00	7/02/2018
	11.40 11.40	4.86 5.43	302 318	20 22	9.00	7/03/2018 6/04/2018
	11.50	5.37	307	12	10.00	3/05/2018
	11.60	5.60	304	14	10.00	5/06/2018
	11.50 11.50	5.61 5.95	306 303	20 15	10.00 9.00	6/07/2018 2/08/2018
	11.60	5.57	311	6	10.00	3/09/2018
	11.60 11.60	6.24	338 324	14 20	10.00 10.00	3/10/2018 5/11/2018
	11.60	6.09	324	20	8.30	3/12/2018
	11.50 11.50	6.07 5.72	291 264	23 22	10.00 8.00	11/01/2019 4/02/2019
	11.60	5.60	262	25	10.00	5/03/2019
	11.60	5.62	273 221	18 17	10.00 10.00	1/04/2019
	11.60 11.70	5.81 5.28	293	9	10.00	1/05/2019 31/05/2019
	11.70	5.85	288	10	9.00	27/06/2019
	11.80 11.80	7.48 5.37	318 318	5 13	9.00	2/08/2019 2/09/2019
	11.80	6.57	310	21	10.00	3/10/2019
	11.80 11.80	5.78 6.15	318 307	23 21	10.00 10.00	5/11/2019 4/12/2019
	11.80	5.66	302	23	10.00	2/01/2020
	11.90 10.96	5.57 5.83	344 298	19 23	10.00 2.00	4/02/2020 3/03/2020
	11.10	5.65	304	22	11.00	1/04/2020
	11.10	5.55	299	21	11.00	4/05/2020
	11.40 11.50	6.14 6.79	272 243	19	11.00 8.00	1/06/2020 2/07/2020
	11.50	6.02	267	5	10.00	3/08/2020
	11.30 11.30	5.57 6.45	285 255	6 15	8.00 8.00	2/09/2020 1/10/2020
	11.30	6.01	274	15	10.00	3/11/2020
	11.30 11.40	5.94 5.57	259 272	19 21	10.00 10.00	11/12/2020 11/01/2021
	11.40	5.76	272	21	10.00	9/02/2021
	11.45	5.73	293	27	11.00	8/03/2021
	11.00 10.40	5.78 5.59	288 291	23 15	10.00 10.00	6/04/2021 5/05/2021
	10.30	5.41	258	10	10.00	3/06/2021
	10.70 10.90	5.77 6.63	154 153	6 15	10.00 10.00	5/07/2021 4/08/2021
	11.00	6.74	168	14	10.00	1/09/2021
	11.10 11.10	7.36 6.07	156 163	18 20	10.00 10.00	5/10/2021 2/11/2021
	11.10	5.65	174	21	10.00	3/12/2021
	11.00	6.83	178	25	10.00	10/01/2022
	11.00 7.00	5.52 5.49	214 264	21 16	10.00 10.00	2/02/2022 1/04/2022
	7.40	7.67	92	15	10.00	2/05/2022
	8.40 9.10	6.14 6.36	100 95	11 10	10.00 10.00	6/06/2022 1/07/2022
	7.70	7.39	202	20	11.00	4/08/2022
	8.90 9.40	5.85 5.60	223 235	14 15	10.00 10.00	2/09/2022 4/10/2022
	9.40 8.60	5.60	188	15 18	10.00	4/10/2022
	9.70	5.81	169	22	10.00	13/12/2022
	9.90 10.20	5.95 6.20	176 186	23 24	10.00 10.00	10/01/2023 6/02/2023
	10.50	6.17	181	18	10.00	9/03/2023
	10.70 10.80	6.41 6.24	180	19 12	10.00	3/04/2023 3/05/2023
	10.80 11.10	7.55	182 185	12 8	10.00 10.00	3/05/2023 6/06/2023
	11.10	7.51	181	15	10.00	5/07/2023
	11.30 11.40	6.91 6.68	190 184	13 20	10.00 10.00	4/08/2023 5/09/2023
	11.50	6.42	182	21	10.00	,



CERTIFICATE OF ANALYSIS

Work Order : EN2310101

Client : HARVEST SCIENTIFIC SERVICES

Contact : MART RAMPE

Address : PO BOX 427

NARELLAN NSW, AUSTRALIA 2567

Telephone : ---

Project : COLLINS SPIRNG FARM

Order number : 2023-10

C-O-C number : ----

Sampler : MART RAMPE

Site : ---Quote number : ---No. of samples received : 3
No. of samples analysed : 3

Page : 1 of 2

Laboratory : Environmental Division Newcastle

Contact :

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 05-Oct-2023 17:00

Date Analysis Commenced : 09-Oct-2023

Issue Date : 17-Oct-2023 17:23



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Shane Merrell Laboratory Technician Newcastle - Inorganics, Mayfield West, NSW

Page : 2 of 2 Work Order : EN2310101

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM

General Comments

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Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.
- Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.
- For dust analysis, the Limit of Reporting (LOR) referenced in the reports for deposited matter parameters represents the reporting increment rather than reporting limit.

Analytical Results

Sub-Matrix: DEPOSITIONAL DUST			Sample ID	COLLINS 1	COLLINS 2	COLLINS 3	
(Matrix: AIR)				05/09/23 - 04/10/23	05/09/23 - 04/10/23	05/09/23 - 04/10/23	
		Samplii	ng date / time	04-Oct-2023 10:00	04-Oct-2023 10:00	04-Oct-2023 10:00	
Compound	CAS Number	LOR	Unit	EN2310101-001	EN2310101-002	EN2310101-003	
				Result	Result	Result	
EA141: Total Insoluble Matter							
Total Insoluble Matter		0.1	g/m².month	0.8	0.8	0.9	
Total Insoluble Matter (mg)		2	mg	14	14	15	



Dust Deposition Results

Period	TIM (g	/m2/mc	onth)	Notes	Controls Implemented
			MS 3		
Jan-18	1.3	2.0	2.8		
Feb-18	0.5	1.9	5.6	Very hot and dry month	
Mar-18	0.6	0.7	7.2	Very hot and dry month and at times windy	
Apr-18	6.7	1.1	2.6	MS-1 sample polluted - bird droppings?	
May-18	0.4	0.6	2.5		
Jun-18	0.5	0.5	34.1	MS-1 sample highly polluted - anomalous result	
Jul-18	0.4	0.8	0.7 0.7		
Aug-18 Sep-18	1.0	0.8	1.5		
Oct-18	0.7	1.2	1.4		
Nov-18	0.5	1.0	1.8		
Dec-18	2.4	0.7	2.0		
Jan-19	1.6	3.5	4.7	Very hot and dry month and at times windy	
Feb-19	1.0	2.5	3.6		
Mar-19	2.0	4.3	1.6	No significant activities noted	
Apr-19	0.7	3.2	1.2		
May-19	0.5	1.9	1.4	Fresh road works around Stations 2 and 3	
	0.7	1.3	1.1		
	0.2	0.4	0.6		
Aug-19 Sep-19	0.4 1.0	0.8	1.4		
Oct-19	1.5	2.3	3.8		
Nov-19	2.4	1.2	4.6	Month of high winds and smoke from bushfires	
Jan-20	1.2	2.8	2.2	month of high winds and shoke from business	
Feb-20	6.3	6.5	6.0	Month of high winds, bushfire smoke and drought con	ditions
Mar-20	0.5	11.1	1.2	Earthmoving activities near Station 2 contribute to ex-	
Apr-20	0.9	1.2	0.8	-	
May-20	1.4	0.8	1.4		
Jun-20	0.2	8.0	0.8		
Jul-20	0.3	1.4	0.4		
	0.6	2.4	1.1		
	0.8	7.7	0.9	Earthmoving activities near Station 2 contribute to ex	
Oct-20	1.6	28.3	1.6	Earthmoving activities near Station 2 contribute to ex	
Nov-20	10.4	22.4 6.7	2.2	Earthmoving activities near Station 2 contribute to ex	
Dec-20 Jan-21	0.8	4.7	3.4 0.8	Earthmoving activities near Station 2 contribute to ex-	Leedance
Feb-21	1.8	6.7	1.3	Staion 2 moved east to other side of drainage line	
Mar-21	0.8	0.9	1.2	station 2 moved cast to other side of dramage inte	
Apr-21	0.1	3.1	0.7		
May-21	0.8	0.8	2.3		
Jun-21	8.0	4.0	0.8		
Jul-21	0.4	8.5	0.3		
_	0.2	1.8	0.2		
q	1.5	4.2	0.7		
Oct-21	1.7	0.3	1.4		
Nov-21	0.5	0.7	1.1		
Dec-21 Jan-22	3.5 0.8	0.6 1.2	0.6		
	0.6	7.00	0.6		
Mar-22	0.0	2.2	0.7	Station 1 lost due to flooding event	
Apr-22	0	2.2	0.7	Station 1 lost due to flooding event	
	0	3.7	0.6	Station 1 lost due to flooding event	
	0.7		1.1		
	0.2	0.6	0.6		
Aug-22	0	5.3	0.1	Station 1 lost due to flooding event	
Sep-22	0.7	7.4	1.7		
	0.8	3.6	1.0		
	0.8	5.1	1.6		
Dec-22	2.8	5.4	1.7		,
Jan-23	0.1	0.4	0.5		
Feb-23 Mar-23	0.8 1.3	0.3	0.7 0.7		
Apr-23	1.3	0.2	0.7		
May-23	0.5	0.5	0.6		
Jun-23	0.4	2.7	0.5		
Jul-23	2.0	2.4	0.2		
	0.3	4.4	1.5	Significant earthworks around Station 2	
Sep-23	1.3	0.5	0.5		
Oct-23	0.8	0.8	0.9		
OC1-23	0.0	0.0	0.5		





QUALITY CONTROL REPORT

: ES2334011 Work Order

Client : HARVEST SCIENTIFIC SERVICES

Contact : OFFICE Address

: PO BOX 427

NARELLAN NSW. AUSTRALIA 2567

Telephone Project Order number : 2023-10

C-O-C number

Sampler : MATT RAMPE

Site Quote number : EN/333

No. of samples received : 1 No. of samples analysed : 1 Page : 1 of 3

Laboratory : Environmental Division Sydney

: Customer Services ES Contact

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555 **Date Samples Received** : 04-Oct-2023 Date Analysis Commenced : 05-Oct-2023

· 06-Oct-2023 Issue Date



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW Page : 2 of 3 Work Order : ES2334011

Client : HARVEST SCIENTIFIC SERVICES

Project : --



General Comments

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Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)	
EA005P: pH by PC Ti	trator (QC Lot: 5341557)									
ES2334030-005	Anonymous	EA005-P: pH Value		0.01	pH Unit	6.10	6.10	0.0	0% - 20%	
ES2333674-001	Anonymous	EA005-P: pH Value		0.01	pH Unit	11.7	11.7	0.1	0% - 20%	
EA010P: Conductivity	A010P: Conductivity by PC Titrator (QC Lot: 5341556)									
ES2333971-009	Anonymous	EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	194	192	1.0	0% - 20%	
ES2334078-001	Anonymous	EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	2010	2000	0.1	0% - 20%	
EW2304382-001	Anonymous	EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	677	674	0.4	0% - 20%	
EW2304366-001	Anonymous	EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	1200	1190	0.4	0% - 20%	
ES2334030-005	Anonymous	EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	8830	8820	0.1	0% - 20%	
ES2333674-001	Anonymous	EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	1340	1360	1.5	0% - 20%	

Page : 3 of 3 Work Order : ES2334011

Client : HARVEST SCIENTIFIC SERVICES

Project : ---



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER				Method Blank (MB)	Laboratory Control Spike (LCS) Report				
				Report		Spike Recovery (%)	Acceptable Limits (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
EA005P: pH by PC Titrator (QCLot: 5341557)									
EA005-P: pH Value			pH Unit		4 pH Unit	100	98.8	101	
					7 pH Unit	100	99.2	101	
EA010P: Conductivity by PC Titrator (QCLot: 5341556)									
EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	<1	220 μS/cm	91.6	89.9	110	
				<1	2100 μS/cm	95.5	90.2	111	

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **ES2334011** Page : 1 of 4

Client : HARVEST SCIENTIFIC SERVICES Laboratory : Environmental Division Sydney

 Contact
 : OFFICE
 Telephone
 : +61-2-8784 8555

 Project
 : --- Date Samples Received
 : 04-Oct-2023

 Site
 : --- Issue Date
 : 06-Oct-2023

Sampler : MATT RAMPE No. of samples received : 1
Order number : 2023-10 No. of samples analysed : 1

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- NO Matrix Spike outliers occur.
- For all regular sample matrices, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

• NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4
Work Order : ES2334011

Client : HARVEST SCIENTIFIC SERVICES

Project : ---

Outliers: Analysis Holding Time Compliance

Matrix: WATER

Method	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)	Date extracted Due for extraction Days			Date analysed	Due for analysis	Days
			overdue			overdue
EA005P: pH by PC Titrator						
Opaque Plastic Bottle - Unpreserved						
COLLINS GW 1				05-Oct-2023	04-Oct-2023	1

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: **x** = Holding time breach : ✓ = Within holding time.

Method	Sample Date	Ex	traction / Preparation		Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA005P: pH by PC Titrator							
Opaque Plastic Bottle - Unpreserved (EA005-P) COLLINS GW 1	04-Oct-2023				05-Oct-2023	04-Oct-2023	×
EA010P: Conductivity by PC Titrator							
Opaque Plastic Bottle - Unpreserved (EA010-P) COLLINS GW 1	04-Oct-2023				05-Oct-2023	01-Nov-2023	√

Page : 3 of 4
Work Order : ES2334011

Client : HARVEST SCIENTIFIC SERVICES

Project : ---



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER

Evaluation: **x** = Quality Control frequency not within specification; \checkmark = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Conductivity by Auto Titrator	EA010-P	6	37	16.22	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH by Auto Titrator	EA005-P	2	16	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Conductivity by Auto Titrator	EA010-P	4	37	10.81	8.33	✓	NEPM 2013 B3 & ALS QC Standard
pH by Auto Titrator	EA005-P	2	16	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Conductivity by Auto Titrator	EA010-P	3	37	8.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Page : 4 of 4
Work Order : ES2334011

Client : HARVEST SCIENTIFIC SERVICES

Project : --



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH by Auto Titrator	EA005-P	WATER	In house: Referenced to APHA 4500 H+ B. This procedure determines pH of water samples by automated ISE.
			This method is compliant with NEPM Schedule B(3)
Conductivity by Auto Titrator	EA010-P	WATER	In house: Referenced to APHA 2510 B. This procedure determines conductivity by automated ISE. This method
			is compliant with NEPM Schedule B(3)



QUALITY CONTROL REPORT

: EN2310101 Work Order

Client : HARVEST SCIENTIFIC SERVICES : Environmental Division Newcastle

Contact : MART RAMPE Contact Address : PO BOX 427

NARELLAN NSW. AUSTRALIA 2567

Telephone

Project : COLLINS SPIRNG FARM

Order number : 2023-10

C-O-C number

Sampler : MART RAMPE

Site Quote number : ----No. of samples received : 3 No. of samples analysed : 3

Page : 1 of 3

Laboratory

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500 Date Samples Received : 05-Oct-2023 Date Analysis Commenced : 09-Oct-2023 · 17-Oct-2023 Issue Date



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Shane Merrell Laboratory Technician Newcastle - Inorganics, Mayfield West, NSW Page : 2 of 3 Work Order : EN2310101

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

• No Laboratory Duplicate (DUP) Results are required to be reported.

Page : 3 of 3 Work Order : EN2310101

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

• No Method Blank (MB) or Laboratory Control Spike (LCS) Results are required to be reported.

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **EN2310101** Page : 1 of 4

Client : HARVEST SCIENTIFIC SERVICES Laboratory : Environmental Division Newcastle

 Contact
 : MART RAMPE
 Telephone
 : +61 2 4014 2500

 Project
 : COLLINS SPIRNG FARM
 Date Samples Received
 : 05-Oct-2023

 Site
 : --- Issue Date
 : 17-Oct-2023

Sampler : MART RAMPE No. of samples received : 3
Order number : 2023-10 No. of samples analysed : 3

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- NO Matrix Spike outliers occur.
- For all regular sample matrices, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

NO Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

• NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4
Work Order : EN2310101

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

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Matrix: AIR

Evaluation: * = Holding time breach: \checkmark = Within holding time.

							,	
Method			Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA141: Total Insoluble Matter								
Dust Gauge (Bottle) - Copper Sulfate (EA141) COLLINS 1 - 05/09/23 - 04/10/23,	COLLINS 2 - 05/09/23 - 04/10/23,	04-Oct-2023				09-Oct-2023	03-Nov-2023	,
COLLINS 1 - 05/09/23 - 04/10/23, COLLINS 3 - 05/09/23 - 04/10/23	COLLINS 2 - 05/09/23 - 04/10/23,	04-001-2023				09-001-2023	03-1407-2023	•

Page : 3 of 4
Work Order : EN2310101

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



Quality Control Parameter Frequency Compliance

No Quality Control data available for this section.

Page : 4 of 4
Work Order : EN2310101

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Total Insoluble Matter (TIM)	EA141	AIR	In house: Referenced to AS 3580.10.1. A gravimetric procedure reporting Total Insoluble solids in deposited
			dust.