CERTIFICATE OF ANALYSIS

Work Order	: **ES2316869**	Page	: 1 of 14
Amendment	: **1**		
Client	: **DEPARTMENT OF PLANNING AND ENVIRONMENT (NSW-DPE)**	Laboratory	: Environmental Division Sydney
Contact	: OEH	Contact	: Customer Services ES
Address	: [redacted] Lidcombe 2141	Address	: [redacted]
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 20230170	Date Samples Received	: 19-May-2023 15:40
Order number	: 4500806025	Date Analysis Commenced	: 19-May-2023
C-O-C number	: ----	Issue Date	: 08-Jun-2023 14:54
Sampler	: ----		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 53		
No. of samples analysed	: 53		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

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
- Surrogate Control Limits

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*
[redacted]	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
[redacted]	LCMS Coordinator	Sydney Organics, Smithfield, NSW

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.

- EP202: Poor matrix spike recoveries for Clopyralid due to matrix effects.
- Amendment (08/06/2023): This report has been amended as a result of misinterpretation of sample identification numbers (IDs) for samples 47. All analysis results are as per the previous report.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	233617	233618	233619	233620	233621
				Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit		ES2316869-001	ES2316869-002	ES2316869-003	ES2316869-004	ES2316869-005
					Result	Result	Result	Result	Result
EP202A: Phenoxyacetic Acid Herbicides by LCMS									
4-Chlorophenoxy acetic acid	122-88-3	10	µg/L		<10	<10	<10	<10	<10
2.4-DB	94-82-6	10	µg/L		<10	<10	<10	<10	<10
Dicamba	1918-00-9	10	µg/L		<10	<10	<10	<10	<10
Mecoprop	93-65-2	10	µg/L		<10	<10	<10	<10	<10
MCPA	94-74-6	10	µg/L		<10	<10	<10	<10	<10
2.4-DP	120-36-5	10	µg/L		<10	<10	<10	<10	<10
2.4-D	94-75-7	10	µg/L		<10	<10	<10	<10	<10
Triclopyr	55335-06-3	10	µg/L		<10	<10	<10	<10	<10
Silvex (2.4.5-TP/Fenoprop)	93-72-1	10	µg/L		<10	<10	<10	<10	<10
2.4.5-T	93-76-5	10	µg/L		<10	<10	<10	<10	<10
MCPB	94-81-5	10	µg/L		<10	<10	<10	<10	<10
Picloram	1918-02-1	10	µg/L		<10	<10	<10	<10	<10
Clopyralid	1702-17-6	10	µg/L		<10	<10	<10	<10	<10
Fluroxypyr	69377-81-7	10	µg/L		<10	<10	<10	<10	<10
2.6-D	575-90-6	10	µg/L		<10	<10	<10	<10	<10
2.4.6-T	575-89-3	10	µg/L		<10	<10	<10	<10	<10
EP204: Glyphosate and AMPA									
Glyphosate	1071-83-6	10	µg/L		<10	<10	<10	<10	<10
AMPA	1066-51-9	10	µg/L		<10	<10	<10	<10	<10
EP202S: Phenoxyacetic Acid Herbicide Surrogate									
2.4-Dichlorophenyl Acetic Acid	19719-28-9	10	%		**116**	**113**	**108**	**105**	**97.8**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	233622	233623	233624	233625	233626
			Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit	ES2316869-006	ES2316869-007	ES2316869-008	ES2316869-009	ES2316869-010
				Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	----	----	----	0.04	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	----	----	----	0.02	0.05
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)								
Dissolved TKN as N	----	0.1	mg/L	----	----	----	----	0.8
EK062F: Filtered Total Nitrogen as N								
^ Filtered Total Nitrogen as N	----	0.1	mg/L	----	----	----	----	0.8
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser								
Filtered Total Phosphorus as P	----	0.01	mg/L	----	----	----	----	0.08
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	----	----	----	0.05	----
EP202A: Phenoxyacetic Acid Herbicides by LCMS								
4-Chlorophenoxy acetic acid	122-88-3	10	µg/L	<10	<10	<10	----	----
2.4-DB	94-82-6	10	µg/L	<10	<10	<10	----	----
Dicamba	1918-00-9	10	µg/L	<10	<10	<10	----	----
Mecoprop	93-65-2	10	µg/L	<10	<10	<10	----	----
MCPA	94-74-6	10	µg/L	<10	<10	<10	----	----
2.4-DP	120-36-5	10	µg/L	<10	<10	<10	----	----
2.4-D	94-75-7	10	µg/L	<10	<10	<10	----	----
Triclopyr	55335-06-3	10	µg/L	<10	<10	<10	----	----
Silvex (2.4.5-TP/Fenoprop)	93-72-1	10	µg/L	<10	<10	<10	----	----
2.4.5-T	93-76-5	10	µg/L	<10	<10	<10	----	----
MCPB	94-81-5	10	µg/L	<10	<10	<10	----	----
Picloram	1918-02-1	10	µg/L	<10	<10	<10	----	----
Clopyralid	1702-17-6	10	µg/L	<10	<10	<10	----	----
Fluroxypyr	69377-81-7	10	µg/L	<10	<10	<10	----	----
2.6-D	575-90-6	10	µg/L	<10	<10	<10	----	----
2.4.6-T	575-89-3	10	µg/L	<10	<10	<10	----	----
EP204: Glyphosate and AMPA								
Glyphosate	1071-83-6	10	µg/L	<10	<10	<10	----	----
AMPA	1066-51-9	10	µg/L	<10	<10	<10	----	----
EP202S: Phenoxyacetic Acid Herbicide Surrogate								
2.4-Dichlorophenyl Acetic Acid	19719-28-9	10	%	97.6	99.1	110	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	233627	233628	233629	233630	233631
			Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit	ES2316869-011	ES2316869-012	ES2316869-013	ES2316869-014	ES2316869-015
				Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	**----**	<0.01	**----**	**----**	**0.01**
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	**0.03**	**0.02**	<0.01	<0.01	**0.02**
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)								
Dissolved TKN as N	----	0.1	mg/L	**----**	**----**	**0.6**	**----**	**----**
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	**1.1**	**----**	**----**	**0.7**	**----**
EK062F: Filtered Total Nitrogen as N								
^ **Filtered Total Nitrogen as N**	----	0.1	mg/L	**----**	**----**	**0.6**	**----**	**----**
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ **Total Nitrogen as N**	----	0.1	mg/L	**1.1**	**----**	**----**	**0.7**	**----**
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser								
Filtered Total Phosphorus as P	----	0.01	mg/L	**----**	**----**	**0.26**	**----**	**----**
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	**0.16**	**----**	**----**	**0.31**	**----**
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	**----**	**0.22**	**----**	**----**	**0.08**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	233632	233633	233634	233635	233636
			Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit	ES2316869-016	ES2316869-017	ES2316869-018	ES2316869-019	ES2316869-020
				Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	----	----	0.03	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	0.01	0.02	0.02	0.02	0.02
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)								
Dissolved TKN as N	----	0.1	mg/L	0.7	----	----	0.7	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	----	1.3	----	----	1.2
EK062F: Filtered Total Nitrogen as N								
^ Filtered Total Nitrogen as N	----	0.1	mg/L	0.7	----	----	0.7	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	----	1.3	----	----	1.2
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser								
Filtered Total Phosphorus as P	----	0.01	mg/L	0.11	----	----	0.08	----
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	----	0.20	----	----	0.15
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	----	----	0.05	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	233637	233638	233639	233640	233641
			Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit	ES2316869-021	ES2316869-022	ES2316869-023	ES2316869-024	ES2316869-025
				Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	**0.06**	----	----	**0.10**	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	**0.04**	**0.04**	**0.04**	**0.05**	**0.05**
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)								
Dissolved TKN as N	----	0.1	mg/L	----	**0.7**	----	----	**0.9**
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	----	----	**1.1**	----	----
EK062F: Filtered Total Nitrogen as N								
^ Filtered Total Nitrogen as N	----	0.1	mg/L	----	**0.7**	----	----	**1.0**
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	----	----	**1.1**	----	----
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser								
Filtered Total Phosphorus as P	----	0.01	mg/L	----	**0.06**	----	----	**0.08**
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	----	----	**0.15**	----	----
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	**0.04**	----	----	**0.04**	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	233642	233643	233644	233645	233651
			Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit	ES2316869-026	ES2316869-027	ES2316869-028	ES2316869-029	ES2316869-030
				Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	----	0.03	----	----	<0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	0.05	0.03	0.03	0.04	<0.01
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)								
Dissolved TKN as N	----	0.1	mg/L	----	----	0.7	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.2	----	----	0.9	----
EK062F: Filtered Total Nitrogen as N								
^ Filtered Total Nitrogen as N	----	0.1	mg/L	----	----	0.7	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	1.2	----	----	0.9	----
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser								
Filtered Total Phosphorus as P	----	0.01	mg/L	----	----	0.14	----	----
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	0.17	----	----	0.23	----
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	----	0.13	----	----	<0.01

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	233652	233653	233659	233660	233661
			Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit	ES2316869-031	ES2316869-032	ES2316869-033	ES2316869-034	ES2316869-035
				Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	----	----	0.04	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	0.02	0.01	0.02	<0.01	0.01
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)								
Dissolved TKN as N	----	0.1	mg/L	0.6	----	----	0.8	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	----	1.2	----	----	0.8
EK062F: Filtered Total Nitrogen as N								
^ Filtered Total Nitrogen as N	----	0.1	mg/L	0.6	----	----	0.8	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	----	1.2	----	----	0.8
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser								
Filtered Total Phosphorus as P	----	0.01	mg/L	0.05	----	----	0.11	----
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	----	0.09	----	----	0.10
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	----	----	0.08	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	233667	233668	233669	233675	233676
			Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit	ES2316869-036	ES2316869-037	ES2316869-038	ES2316869-039	ES2316869-040
				Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	**0.03**	----	----	<0.01	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	<0.01	**0.01**	**0.01**
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)								
Dissolved TKN as N	----	0.1	mg/L	----	**0.5**	----	----	**0.7**
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	----	----	**0.8**	----	----
EK062F: Filtered Total Nitrogen as N								
^ Filtered Total Nitrogen as N	----	0.1	mg/L	----	**0.5**	----	----	**0.7**
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	----	----	**0.8**	----	----
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser								
Filtered Total Phosphorus as P	----	0.01	mg/L	----	**0.29**	----	----	**0.09**
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	----	----	**0.30**	----	----
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	**0.22**	----	----	**0.07**	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	233677	233683	233684	233685	233691
			Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit	ES2316869-041	ES2316869-042	ES2316869-043	ES2316869-044	ES2316869-045
				Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	----	0.02	----	----	0.04
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	0.01	0.02	0.02	0.02	0.04
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)								
Dissolved TKN as N	----	0.1	mg/L	----	----	0.7	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.1	----	----	1.0	----
EK062F: Filtered Total Nitrogen as N								
^ Filtered Total Nitrogen as N	----	0.1	mg/L	----	----	0.7	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	1.1	----	----	1.0	----
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser								
Filtered Total Phosphorus as P	----	0.01	mg/L	----	----	0.09	----	----
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	0.18	----	----	0.15	----
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	----	0.06	----	----	0.04

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	233692	233693	233699	233700	233701
				Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00
Compound	CAS Number	LOR	Unit		ES2316869-046	ES2316869-047	ES2316869-048	ES2316869-049	ES2316869-050
					Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		----	----	0.07	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		0.04	0.04	0.05	0.05	0.04
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)									
Dissolved TKN as N	----	0.1	mg/L		0.7	----	----	0.9	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		----	1.1	----	----	1.2
EK062F: Filtered Total Nitrogen as N									
^ Filtered Total Nitrogen as N	----	0.1	mg/L		0.7	----	----	1.0	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		----	1.1	----	----	1.2
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser									
Filtered Total Phosphorus as P	----	0.01	mg/L		0.06	----	----	0.06	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		----	0.17	----	----	0.20
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		----	----	0.04	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	233707	233708	233709	----	----
			Sampling date / time	12-May-2023 00:00	12-May-2023 00:00	12-May-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2316869-051	ES2316869-052	ES2316869-053	--------	--------
				Result	Result	Result	----	----
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	**0.02**	**----**	**----**	**----**	**----**
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	**0.03**	**0.03**	**0.04**	**----**	**----**
EK061F: Filtered Total Kjeldahl Nitrogen as N (TKN)								
Dissolved TKN as N	----	0.1	mg/L	**----**	**0.6**	**----**	**----**	**----**
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	**----**	**----**	**1.1**	**----**	**----**
EK062F: Filtered Total Nitrogen as N								
^ **Filtered Total Nitrogen as N**	----	0.1	mg/L	**----**	**0.6**	**----**	**----**	**----**
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ **Total Nitrogen as N**	----	0.1	mg/L	**----**	**----**	**1.1**	**----**	**----**
EK067FG: Filtered Total Phosphorus as P by Discrete Analyser								
Filtered Total Phosphorus as P	----	0.01	mg/L	**----**	**0.16**	**----**	**----**	**----**
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	**----**	**----**	**0.26**	**----**	**----**
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	**0.14**	**----**	**----**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: **WATER**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP202S: Phenoxyacetic Acid Herbicide Surrogate			
2.4-Dichlorophenyl Acetic Acid	19719-28-9	64	140