

# Air Quality

1-hour TSP Concentration ( $\mu\text{g}/\text{m}^3$ ) at Location AM1

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
2/6/2023	Sibata LD-5R	942532	0.00108	Fine	11:00	12:00	13:00	36	38	31	35	285	500	285	500
8/6/2023	Sibata LD-5R	942532	0.00108	Fine	11:20	12:20	13:20	16	24	19	20				
14/6/2023	Sibata LD-5R	942532	0.00108	Cloudy	11:45	12:45	13:45	21	23	20	21				
20/6/2023	Sibata LD-5R	942532	0.00108	Fine	15:00	16:00	17:00	24	28	25	26				
27/6/2023	Sibata LD-5R	942532	0.00108	Fine	10:00	11:00	12:00	31	36	29	32				
30/6/2023	Sibata LD-5R	942532	0.00108	Cloudy	10:40	11:40	12:40	31	34	30	32				
								<b>Average</b>			<b>28</b>				
								<b>Max.</b>			<b>38</b>				
								<b>Min.</b>			<b>15</b>				

1-hour TSP Concentration ( $\mu\text{g}/\text{m}^3$ ) at Location AM2

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
2/6/2023	Sibata LD-5R	882106	0.00107	Fine	11:15	12:15	13:15	26	34	34	31	279	500	279	500
8/6/2023	Sibata LD-5R	882106	0.00107	Fine	14:44	15:44	16:44	21	29	23	24				
14/6/2023	Sibata LD-5R	882106	0.00107	Cloudy	10:51	11:51	12:51	26	35	30	30				
20/6/2023	Sibata LD-5R	882106	0.00107	Cloudy	14:30	15:30	16:30	41	45	40	42				
26/6/2023	Sibata LD-5R	882106	0.00107	Fine	11:30	12:30	13:30	29	37	28	31				
30/6/2023	Sibata LD-5R	882106	0.00107	Cloudy	10:50	11:50	12:50	21	32	23	25				
								<b>Average</b>			<b>31</b>				
								<b>Max.</b>			<b>45</b>				
								<b>Min.</b>			<b>21</b>				

1-hour TSP Concentration ( $\mu\text{g}/\text{m}^3$ ) at Location AM3

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
2/6/2023	Sibata LD-5R	024545	0.00114	Fine	11:45	12:45	13:45	39	40	44	41	285	500	285	500
8/6/2023	Sibata LD-5R	024545	0.00114	Fine	11:50	12:50	13:50	21	29	29	26				
14/6/2023	Sibata LD-5R	024545	0.00114	Cloudy	11:19	12:19	13:19	30	34	33	30				
20/6/2023	Sibata LD-5R	024545	0.00114	Fine	14:00	15:00	16:00	31	36	32	42				
26/6/2023	Sibata LD-5R	024545	0.00114	Fine	11:01	12:01	13:01	31	45	36	37				
30/6/2023	Sibata LD-5R	024545	0.00114	Cloudy	10:20	11:20	12:20	24	30	26	27				
								<b>Average</b>			<b>33</b>				
								<b>Max.</b>			<b>45</b>				
								<b>Min.</b>			<b>21</b>				

Remarks:

- The 1-hr TSP Monitoring at AM1 was postponed by one day to 27 June 2023 due to the electric supply.

The Summary of TSP 24-hour Concentration ( $\mu\text{g}/\text{m}^3$ ) at Location AM1

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure (hPa)	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume ( $\text{m}^3$ )	Filter Weight (g)		Particulate weight (g)	Concentration ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
		( $^{\circ}\text{C}$ )		(cfm)	( $\text{m}^3/\text{min}$ )		Initial	Final							
2/6/2023	Fine	30.8	1006.2	1191.47	1215.47	1440	40	0.94	1348	2.6747	2.8023	0.1276	95	164	260
8/6/2023	Fine	32.9	1005.7	1215.47	1239.47	1440	40	0.93	1339	2.6748	2.7240	0.0492	37		
14/6/2023	Cloudy	27.6	1005.0	1254.52	1278.52	1440	40.5	0.96	1386	2.6650	2.7177	0.0527	38		
20/6/2023	Fine	28.4	1007.4	1278.52	1302.52	1440	39.5	0.92	1331	2.6671	2.7114	0.0443	33		
27/6/2023	Fine	29.5	1009.7	1302.54	1326.54	1440	40	0.95	1361	2.7502	2.8205	0.0703	52		
30/6/2023	Cloudy	26.8	1006.3	1326.54	1350.54	1440	40	0.95	1363	2.7495	2.7882	0.0387	28		
												Average	47		
												Min	28		
												Max	95		

The Summary of 24-hour TSP Concentration ( $\mu\text{g}/\text{m}^3$ ) at Location AM2

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure (hPa)	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate	Total Flow Volume ( $\text{m}^3$ )	Filter Weight (g)		Particulate weight (g)	Concentration ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
		( $^{\circ}\text{C}$ )		(cfm)	( $\text{m}^3/\text{min}$ )		Initial	Final							
2/6/2023	Fine	30.8	1006.2	964.46	988.46	1440	41	1.06	1529	2.6750	2.7578	0.0828	54	152	260
8/6/2023	Fine	32.9	1005.7	988.46	1012.46	1440	39.5	1.01	1448	2.6658	2.7441	0.0783	54		
14/6/2023	Cloudy	27.6	1005.0	1012.46	1036.46	1440	40	1.03	1488	2.6576	2.7108	0.0532	36		
20/6/2023	Fine	28.4	1036.5	1036.46	1060.46	1440	40	1.03	1490	2.6587	2.7136	0.0549	37		
26/6/2023	Fine	29.5	1009.9	1060.46	1084.46	1440	40.5	1.05	1516	2.6977	2.7459	0.0482	32		
30/6/2023	Cloudy	26.8	1006.3	1084.46	1108.46	1440	40	1.04	1493	2.6614	2.7088	0.0474	32		
												Average	41		
												Min	32		
												Max	54		

The Summary of 24-hour TSP Concentration ( $\mu\text{g}/\text{m}^3$ ) at Location AM3

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure (hPa)	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate	Total Flow Volume ( $\text{m}^3$ )	Filter Weight (g)		Particulate weight (g)	Concentration ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
		( $^{\circ}\text{C}$ )		(cfm)	( $\text{m}^3/\text{min}$ )		Initial	Final							
2/6/2023	Fine	30.8	1006.2	1971.67	1995.67	1440	39	0.71	1023	2.6577	2.7908	0.1331	130	163	260
8/6/2023	Fine	32.9	1005.7	1995.67	2019.67	1440	41.5	0.80	1147	2.6758	2.8023	0.1265	110		
14/6/2023	Cloudy	27.6	1005.0	2019.67	2043.67	1440	39.5	0.73	1058	2.6601	2.7270	0.0669	63		
20/6/2023	Fine	28.4	1007.2	2043.69	2067.69	1440	41	0.79	1140	2.6637	2.7305	0.0668	59		
26/6/2023	Fine	29.5	1009.7	2067.69	2091.69	1440	42	0.83	1195	2.6818	2.7854	0.1036	87		
30/6/2023	Cloudy	26.8	1006.3	2091.69	2115.69	1440	42	0.83	1197	2.6674	2.7184	0.0510	43		
												Average	82		
												Min	43		
												Max	130		

Remarks:

1. Orange Text equal to exceed Action Level
2. Red Text equal to exceed Limit Level
3. The 24-hr TSP Monitoring at AM1 was postponed by one day to 27 June 2023 due to the electric supply.

# Noise

**Impact Phase Construction Noise Monitoring Data at Location NM1a**

Date	Weather	Wind speed m/s	Start Time	End Time	$L_{eq}$ (dB(A))							$L_{10}$ (dB(A))						$L_{90}$ (dB(A))						
					1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
8/6/2023	Fine	2.1	11:00	11:30	61.4	61.9	60.4	61.1	61.9	62.2	61.5	63.4	63.2	60.4	61.1	61.9	62.2	59.4	59.1	58.2	59.4	58.8	57.2	
14/6/2023	Cloudy	2.1	11:20	11:50	59.4	60.2	61.2	58.2	60.4	61.1	60.2	61.9	63.3	64.2	62.2	63.6	64.2	55.8	57.1	58.2	57.4	56.6	55.2	
21/6/2023	Fine	0.3	14:00	14:30	56.2	51.6	52.9	53.3	51.6	53.4	53.5	61.7	52.8	54.5	55	53	54.5	50.2	49.6	50.8	49.7	49.1	50.2	
26/6/2023	Fine	3.1	11:50	12:20	54.3	53.3	54.4	53.6	54.1	55.1	54.2	56.2	55.2	56.4	56.1	56.9	56.6	50.9	50.2	51.2	52.3	51.6	50.6	
											<b>Average</b>		58.6											
											<b>Baseline Level</b>		55.4											
											<b>Action Level</b>		When one valid documented complaint is received											
											<b>Limit Level</b>		75											

**Impact Phase Construction Noise Monitoring Data at Location NM2a**

Date	Weather	Wind speed m/s	Start Time	End Time	$L_{eq}$ (dB(A))							$L_{10}$ (dB(A))						$L_{90}$ (dB(A))						
					1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
8/6/2023	Fine	3.1	16:00	16:30	57.4	58.1	59.2	57.2	56.4	57.1	57.7	58.1	59.9	61.2	58.9	57.7	59.1	53.2	52.3	53.4	51.9	52.8	53.4	
14/6/2023	Cloudy	2.1	14:00	14:30	53.2	52.4	54.1	54.6	55.1	53.6	53.9	54.5	53.4	55.2	56.2	59.1	54.6	50.3	51.4	52.1	52.4	53.2	51.2	
21/6/2023	Fine	0.7	16:00	16:30	47.5	46.5	47.1	48.2	51.5	47.9	48.5	48.3	48	47.9	48.9	47.9	48	42.4	44.5	43.4	42.9	44.2	44.4	
26/6/2023	Fine	3.2	16:00	16:30	49.1	50.1	51.2	49.4	48.1	48.3	49.5	51.9	52.2	52.9	51.4	51.1	52.6	45.2	46.2	45.1	46.6	44.2	45.1	
											<b>Average</b>		53.9											
											<b>Baseline Level</b>		54.5											
											<b>Action Level</b>		When one valid documented complaint is received											
											<b>Limit Level</b>		75											

# Water Quality

Monitoring Location: WM1

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
21-Jun-23	16:05	Fine	0.05	0.5	28.0	7.6	<7.4	<4	7.1	>7.7	>7.8	5.7	>9.2	>9.5	6.6	>9.7	>11.4

Monitoring Location: WM2

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
21-Jun-23	14:03	Fine	0.15	0	27.3	6.7	<5	<4	7.2	>7.6	>7.7	142.5	>108.3	>108.9	83.2	>94.5	>94.7

Remarks

1. Sample will be grabbed on surface when the water depth is less than 1m.
2. "TBC" equal to "To be confirm"
3. *Orange text* equal to "Exceed Action Level"
4. *Red text* equal to "Exceed Limit Level"






### CERTIFICATE OF ANALYSIS

Client	: ACUMEN LABORATORY AND TESTING LIMITED	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: HUNTINGTON HUI	Contact	: Richard Fung	Work Order	: HK2324385
Address	: UNIT D, 12/F, FORD GLORY PLAZA, NOS.37-39 WING HONG STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Huntington.Hui@arecongroup.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: ---	Telephone	: +852 2610 1044		
Facsimile	: ---	Facsimile	: +852 2610 2021		
Project	: NENTX			Date Samples Received	: 21-Jun-2023
Order number	: ---	Quote number	: HKE/2751/2022_V2	Issue Date	: 06-Jul-2023
C-O-C number	: ---			No. of samples received	: 2
Site	:			No. of samples analysed	: 2

This report may not be reproduced except with prior written approval from the testing laboratory.

This document has been signed by those names that appear on this report and are the authorised signatories.

<i>Signatories</i>	<i>Position</i>	<i>Authorised results for</i>
 Fung Lim Chee, Richard	Managing Director	Inorganics
 Fung Lim Chee, Richard	Managing Director	Metals_ENV
 Ng Sin Kou, May	Laboratory Manager	Microbiology_ENV





## General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. 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.

Testing period is from 21-Jun-2023 to 05-Jul-2023.

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

### Specific Comments for Work Order: HK2324385

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Microbiological sample(s) was/ were collected in 250mL sterile plastic bottles containing sodium thiosulfate. Sample(s) arrived at the laboratory at 17:50.

NOT DETECTED denotes result(s) is (are) less than the Limit of Report (LOR).

ED037 - Titration end point for Total Alkalinity is pH 4.5 while end point for Total Alkalinity <20mg/L is pH 4.2.

Water sample(s) digested by in-house method E-3005 prior to the determination of total metals. The in-house method is developed based on USEPA method 3005.

EA002 - pH value is reported as at 25°C. Calibration range of pH value is 4.0 - 10.0. Results exceeding this range is for reference only.

EA025 - The accredited LOR of Total Suspended Solids is 0.5mg/L. Results below this LOR are for reference only.



### Analytical Results

Sub-Matrix: WATER

				Sample ID	WM1	WM2	---	---	---
				Sampling date / time	21-Jun-2023	21-Jun-2023	---	---	---
Compound	CAS Number	LOR	Unit		HK2324385-001	HK2324385-002	-----	-----	-----
<b>EA/ED: Physical and Aggregate Properties</b>									
EA002: pH Value	----	0.1	pH Unit		7.0	7.3	---	---	---
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm		57	154	---	---	---
EA025: Suspended Solids (SS)	----	0.1	mg/L		6.6	83.2	---	---	---
ED037: Total Alkalinity as CaCO3	----	1	mg/L		15	35	---	---	---
<b>ED/EK: Inorganic Nonmetallic Parameters</b>									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L		2	17	---	---	---
ED045K: Chloride	16887-00-6	0.5	mg/L		6	11	---	---	---
EK055K: Ammonia as N	7664-41-7	0.01	mg/L		<0.01	0.14	---	---	---
EK058A: Nitrate as N	14797-55-8	0.01	mg/L		0.06	0.32	---	---	---
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.6	0.8	---	---	---
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.01	<0.01	---	---	---
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L		<2	<2	---	---	---
<b>EP: Aggregate Organics</b>									
EP005: Total Organic Carbon	----	1	mg/L		2	2	---	---	---
EP020: Oil & Grease	----	5	mg/L		<5	<5	---	---	---
EP026C: Chemical Oxygen Demand	----	5	mg/L		9	14	---	---	---
EP030: Biochemical Oxygen Demand	----	2	mg/L		<2	<2	---	---	---
<b>EG: Metals and Major Cations - Total</b>									
EG020: Cadmium	7440-43-9	0.2	µg/L		<0.2	<0.2	---	---	---
EG020: Copper	7440-50-8	1	µg/L		1	6	---	---	---
EG020: Lead	7439-92-1	1	µg/L		1	11	---	---	---
EG020: Manganese	7439-96-5	1	µg/L		34	509	---	---	---
EG020: Nickel	7440-02-0	1	µg/L		<1	12	---	---	---
EG020: Zinc	7440-66-6	10	µg/L		13	51	---	---	---
EG032: Calcium	7440-70-2	50	µg/L		3340	18600	---	---	---
EG032: Iron	7439-89-6	10	µg/L		570	3850	---	---	---
EG032: Magnesium	7439-95-4	50	µg/L		540	1560	---	---	---
EG032: Potassium	7440-09-7	50	µg/L		830	3050	---	---	---
EG032: Sodium	7440-23-5	50	µg/L		6750	6830	---	---	---



Sub-Matrix: WATER				Sample ID	WM1	WM2	---	---	---
				Sampling date / time	21-Jun-2023	21-Jun-2023	---	---	---
Compound	CAS Number	LOR	Unit		HK2324385-001	HK2324385-002	-----	-----	-----
<b>EM: Microbiological Testing</b>									
EM002: E. coli	----	1	CFU/100mL		160	2800	---	---	---
EM003: Total Coliforms	----	1	CFU/100mL		220	4200	---	---	---



**Laboratory Duplicate (DUP) Report**

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5130115)</b>								
HK2324385-002	WM2	EA025: Suspended Solids (SS)	----	0.5	mg/L	83.2	82.7	0.6
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5130573)</b>								
HK2324234-001	Anonymous	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	211	211	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5130574)</b>								
HK2324384-001	Anonymous	EA002: pH Value	----	0.1	pH Unit	7.4	7.4	0.0
HK2324399-001	Anonymous	EA002: pH Value	----	0.1	pH Unit	8.0	8.0	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5130602)</b>								
HK2324297-001	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	<1	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130203)</b>								
HK2324178-003	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	23	23	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130205)</b>								
HK2324385-001	WM1	ED045K: Chloride	16887-00-6	1	mg/L	6	6	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130206)</b>								
HK2324385-001	WM1	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.01	0.01	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130211)</b>								
HK2324385-001	WM1	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5136653)</b>								
HK2324080-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5151752)</b>								
HK2324385-001	WM1	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.6	0.6	0.0
<b>EP: Aggregate Organics (QC Lot: 5139108)</b>								
HK2324856-001	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	<50	<50	0.0
<b>EP: Aggregate Organics (QC Lot: 5151348)</b>								
HK2321471-001	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	6	6	0.0
<b>EG: Metals and Major Cations - Total (QC Lot: 5130258)</b>								
HK2324385-002	WM2	EG032: Iron	7439-89-6	10	µg/L	3850	3610	6.5
		EG032: Calcium	7440-70-2	50	µg/L	18600	18400	1.5
		EG032: Magnesium	7439-95-4	50	µg/L	1560	1530	2.3
		EG032: Potassium	7440-09-7	50	µg/L	3050	2970	2.6
		EG032: Sodium	7440-23-5	50	µg/L	6830	6700	1.9



Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EG: Metals and Major Cations - Total (QC Lot: 5130259)</b>								
HK2324385-002	WM2	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	6	7	0.0
		EG020: Lead	7439-92-1	1	µg/L	11	11	0.0
		EG020: Manganese	7439-96-5	1	µg/L	509	506	0.7
		EG020: Nickel	7440-02-0	1	µg/L	12	12	0.0
		EG020: Zinc	7440-66-6	10	µg/L	51	51	0.0

**Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report**

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5130115)</b>											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	98.5	----	82.4	118	----	----
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5130573)</b>											
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	<1	146.9 µS/cm	101	----	93.5	106	----	----
				<1	1412 µS/cm	98.6	----	94.3	105	----	----
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5130602)</b>											
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	101	----	95.0	105	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130203)</b>											
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	100	----	89.8	108	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130205)</b>											
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	97.4	----	88.2	108	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130206)</b>											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	97.3	----	92.4	106	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130211)</b>											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	97.7	----	89.3	109	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5136653)</b>											
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5151752)</b>											



Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		Method: Compound	CAS Number	LOR		Unit	Result	LCS	DCS	Low	High
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5151752) - Continued</b>											
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	111	----	89.0	120	----	----
<b>EP: Aggregate Organics (QC Lot: 5126405)</b>											
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	93.0	----	78.6	118	----	----
<b>EP: Aggregate Organics (QC Lot: 5139081)</b>											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	86.4	----	84.2	110	----	----
<b>EP: Aggregate Organics (QC Lot: 5139108)</b>											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	98.7	----	78.1	123	----	----
				<1	100 mg/L	98.3	----	79.9	119	----	----
<b>EP: Aggregate Organics (QC Lot: 5151348)</b>											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	101	----	92.0	108	----	----
				----	250 mg/L	96.9	----	92.3	106	----	----
<b>EG: Metals and Major Cations - Total (QC Lot: 5130258)</b>											
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	98.2	----	85.0	115	----	----
EG032: Iron	7439-89-6	10	µg/L	<10	2000 µg/L	105	----	85.0	115	----	----
EG032: Magnesium	7439-95-4	50	µg/L	<50	2000 µg/L	104	----	85.0	115	----	----
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	99.5	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	101	----	85.0	115	----	----
<b>EG: Metals and Major Cations - Total (QC Lot: 5130259)</b>											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	103	----	85.0	109	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	104	----	90.0	111	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	94.4	----	89.0	111	----	----
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	97.4	----	85.0	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	99.6	----	87.0	110	----	----
EG020: Zinc	7440-66-6	10	µg/L	<10	50 µg/L	111	----	86.0	114	----	----



**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130203)										
HK2324178-003	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	50 mg/L	93.8	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130205)										
HK2324385-001	WM1	ED045K: Chloride	16887-00-6	5 mg/L	90.8	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130206)										
HK2324385-001	WM1	EK071K: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	98.5	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130211)										
HK2324385-001	WM1	EK055K: Ammonia as N	7664-41-7	0.5 mg/L	100	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5151752)										
HK2324385-001	WM1	EK061A: Total Kjeldahl Nitrogen as N	----	0.5 mg/L	108	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5139108)										
HK2324856-001	Anonymous	EP005: Total Organic Carbon	----	250 mg/L	81.4	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5151348)										
HK2321471-001	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	102	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5130258)										
HK2324385-001	WM1	EG032: Calcium	7440-70-2	2000 µg/L	95.2	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	110	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	103	----	75.0	125	----	----
		EG032: Potassium	7440-09-7	2000 µg/L	101	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	92.9	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5130259)										
HK2324385-001	WM1	EG020: Cadmium	7440-43-9	5 µg/L	105	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	110	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	98.7	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	106	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	108	----	75.0	125	----	----



Matrix: WATER

*Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report*

<i>Laboratory sample ID</i>	<i>Sample ID</i>	<i>Method: Compound</i>	<i>CAS Number</i>	<i>Spike Concentration</i>	<i>Spike Recovery (%)</i>		<i>Recovery Limits (%)</i>		<i>RPD (%)</i>	
					<i>MS</i>	<i>MSD</i>	<i>Low</i>	<i>High</i>	<i>Value</i>	<i>Control Limit</i>
<b>EG: Metals and Major Cations - Total (QC Lot: 5130259) - Continued</b>										
HK2324385-001	WM1	EG020: Zinc	7440-66-6	50 µg/L	96.7	----	75.0	125	----	----