

1 1.0079
A
ACCELERATION

14 28.086
N
NOTIFICATION

1 1.0079
A
APPLICATION

12 24.305
L
LUBRICATION

23 50.942
Y
YIELDISATION

19 39.098
S
SIMULATION

5 10.811
E
EVALUATION

4 9.0122
D
DEDICATION

[ANALYTICAL REPORT]

[GROUND WATER ANALYSIS]

[MULTIPLE PARAMETER ANALYSIS]

PREPARED FOR:

[COCA COLA BEVERAGES PAKISTAN LIMITED]

CLIENT DETAILS

LABORATORY DETAILS

Client	Coca Cola Beverages Pakistan Limited	Manager	Rashid Maqbool
Address	Kheyali Chowk, By-Pass Road, Gujranwala	Laboratory	Chemical, Environmental & Microbiological Laboratory
Contact	Mr. Zaka Ullah (Executive QA)	Address	Plot No. 07, Din Muhammad Town, 19-KM Off Multan Road, Lahore.
Telephone	+92 302 8388832	Telephone	+92 42 37515415-18
Fax	-	Fax	+92 42 37515420
Email	zaka@ccbpl.com.pk	Email	rashid.maqbool@sgs.com
Project	(not specified)	SGS Reference	Env-Lhr-847/2014
Order Number	(3000030022)	Sample Collected	08 to 18-12-2014
Samples	Ground Water Samples	Report Number	585182
		Date Reported	13-01-2015

COMMENTS

This report is not valid for any negotiation.
 The remaining portion of the sample (s) will be disposed off after one week unless otherwise instructed. (Conditions Apply)
 Uncertainty of the test can be provided upon request.

SIGNATORIES

Muhammad Ikraam
 Laboratory In-Charge QA/QC

Rashid Maqbool
 Deputy Manager

Sample No.	Env-Lhr-847/2014			
Client ID	Proposed IGF Test Well # 02			
Sample Matrix	Before Sanitation			
Sample Date / Time	Ground Water			
Sample Receipt Date / Time	08-12-14 17:15			
Sampled By	09-12-14 09:30			
Parameter	Units	LOR	SGS Results	WHO Guidelines

Color APHA-2120 B/C 22nd Edition

Color	Pt-Co	5.0	<5.0	≤15 TCU
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Turbidity APHA 2130 B B 22nd Edition

Turbidity	NTU	0.20	7.8	-
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Odour In House (Organoleptic)

Odour	-	-	Odourless	-
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Taste Organoleptic

Taste	-	-	Tasteless	-
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pH APHA 4500H+ B 22nd Edition

*pH @ 25 °C	pH unit	0.1	7.70	-
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Total Dissolved Solid APHA 2540 C 22nd Edition

*Solids, Total Dissolved (TDS)	mg/L	5.0	340.0	-
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Total, Hardness APHA 2340 A, C & B 22nd Edition

*Hardness, Total as CaCO ₃	mg/L	1.0	180.0	-
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Nitrate, Nitrogen (NO₃) Micro APHA 4500 NO₃ D / B

Nitrate (NO ₃), Nitrogen	mg/L	0.003	9.41	50
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Nitrate, Nitrogen (NO₂) Micro APHA 4500 NO₂ B

Nitrite (NO ₂), Nitrogen	mg/L	0.003	<0.003	3
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Cyanide APHA 4500 CN F

Cyanide (CN)	mg/L	0.05	<0.05	-
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Fluoride APHA 4500 F C

Fluoride F ⁻	mg/L	0.10	0.12	1.5
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Total Phenols APHA 5530 D

Phenols, Total (Phenolic Compounds)	mg/L	0.01	<0.01	-
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Chloride APHA-4500Cl- B

*Chloride	mg/L	0.5	11.48	-
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Chlorine Macro APHA 4500 Cl B & C

Chlorine (Residual)	mg/L	1.0	<1.0	-
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Sulfate APHA 4500 SO₄⁻² C

*Sulfate (SO ₄ ⁻²)	mg/L	5.0	16.87	-
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Phosphate APHA 4500P C

Phosphate	mg/L	0.05	<0.05	-
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Sample No.	Env-Lhr-847/2014			
Client ID	Proposed IGF Test Well # 02			
Sample Matrix	Before Sanitation			
Sample Date / Time	Ground Water			
Sample Receipt Date / Time	08-12-14 17:15			
Sampled By	09-12-14 09:30			
Parameter	Units	LOR	SGS Results	WHO Guidelines

Metals by Atomic Absorption Spectroscopy / ICP-OES APHA 3111 D/3120 B

*Cadmium (Cd)	mg/L	0.002	<0.002	0.003
^Copper (Cu)	mg/L	0.005	<0.005	2
*Lead (Pb)	mg/L	0.05	<0.05	0.01
*Chromium (Cr)	mg/L	0.02	0.029	0.05
*Nickel (Ni)	mg/L	0.02	<0.02	0.07
*Zinc (Zn)	mg/L	1.0	<1.0	-
*Manganese (Mn)	mg/L	0.5	<0.5	-
^Selenium (Se)	mg/L	0.005	0.032	0.04
^Arsenic (As)	mg/L	0.005	<0.005	0.01
^Barium (Ba)	mg/L	0.005	0.016	0.7
^Boron (B)	mg/L	0.005	0.027	2.4
*Antimony (Sb)	mg/L	0.1	<0.1	0.02
*Aluminum (Al)	mg/L	0.02	<0.02	-

Mercury by ICP-OES APHA 3112 B

^Mercury (Hg)	mg/L	0.001	<0.001	0.006
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Chloro-Pesticides USEPA 5030 & 8081-A

^Pesticides, Total	µg/L	1.0	**	-
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Total Poly Nuclear Aromatic Hydrocarbon USEPA 8100

Total PAH	mg/L	0.50	<0.50	-
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Total Colony Count Pour Plate Technique APHA 9215 B 22nd Edition

*Total Colony Count	CFU /ml	-	1.7×10 ³	-
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Total Coliforms Membrane Filtration Technique APHA 9222 B 22nd Edition

*Total Coliforms	CFU/100ml	-	5	0 CFU / 100ml
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Fecal Coliforms (E.coli) Membrane Filtration Technique APHA 9222 D 22nd Edition

* Fecal Coliforms (E.coli)	CFU/100ml	-	Absent	0 CFU / 100ml
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Fecal Streptococci Enterococci Membrane Filtration Technique APHA 9230 C 22nd Edition

*Fecal Streptococci Enterococci	CFU /100ml	-	Absent	-
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ANALYTICAL REPORT

Report No. 585182

Sample No.	Env-Lhr-847/2014-01			
Client ID	Proposed IGF Test Well # 02			
Sample Matrix	After Sanitation			
Sample Date / Time	Ground Water			
Sample Receipt Date / Time	11-12-14 14:00			
Sampled By	12-12-14 14:30			
Parameter	Units	LOR	SGS Results	WHO Guidelines

Total Colony Count **Pour Plate Technique** **APHA 9215 B 22nd Edition**

*Total Colony Count	CFU /ml	-	163	-
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Total Coliforms **Membrane Filtration Technique** **APHA 9222 B 22nd Edition**

*Total Coliforms	CFU/100ml	-	Absent	0 CFU / 100ml
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Fecal Coliforms (E.coli) **Membrane Filtration Technique** **APHA 9222 D 22nd Edition**

* Fecal Coliforms (<i>E.coli</i>)	CFU/100ml	-	Absent	0 CFU / 100ml
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Fecal Streptococci/ Enterococci **Membrane Filtration Technique** **APHA 9230 C 22nd Edition**

*Fecal Streptococci/ Enterococci	CFU /100ml	-	Absent	-
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Pseudomonas aeruginosa **Membrane Filtration Technique** **APHA 9213 E 22nd Edition**

<i>Pseudomonas aeruginosa</i>	CFU /100ml	-	Absent	-
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Sample No.	Env-Lhr-847/2014-02			
Client ID	Proposed IGF Test Well # 02			
Sample Matrix	Ground Water			
Sample Date / Time	12-12-14	14:00		
Sample Receipt Date / Time	13-12-14	11:30		
Sampled By	SGS			WHO
Parameter	Results	LOR	Results	Guidelines

Color APHA-2120 B/C 22nd Edition

Color	Pt-Co	5.0	<5.0	≤15 TCU
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Turbidity APHA 2130 B B 22nd Edition

Turbidity	NTU	0.20	8.2	-
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Odour In House (Organoleptic)

Odour	-	-	Odourless	-
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Taste Organoleptic

Taste	-	-	Tasteless	-
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pH APHA 4500H+ B 22nd Edition

*pH @ 25 °C	pH unit	0.1	7.50	-
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Total Dissolved Solid APHA 2540 C 22nd Edition

*Solids, Total Dissolved (TDS)	mg/L	5.0	348.0	-
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Total, Hardness APHA 2340 A, C & B 22nd Edition

*Hardness, Total as CaCO ₃	mg/L	1.0	196.0	-
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Nitrate, Nitrogen (NO₃) Micro APHA 4500 NO₃ D / B

Nitrate (NO ₃), Nitrogen	mg/L	0.003	10.13	50
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Nitrate, Nitrogen (NO₂) Micro APHA 4500 NO₂ B

Nitrite (NO ₂), Nitrogen	mg/L	0.003	<0.003	3
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Cyanide APHA 4500 CN F

Cyanide (CN)	mg/L	0.05	<0.05	-
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Fluoride APHA 4500 F C

Fluoride F	mg/L	0.10	0.41	1.5
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Total Phenols APHA 5530 D

Phenols, Total (Phenolic Compounds)	mg/L	0.01	<0.01	-
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Chloride APHA-4500Cl- B

*Chloride	mg/L	0.5	13.40	-
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Chlorine Macro APHA 4500 Cl B & C

Chlorine (Residual)	mg/L	1.0	<1.0	-
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Sulfate APHA 4500 SO₄⁻² C

*Sulfate (SO ₄ ⁻²)	mg/L	5.0	17.28	-
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Phosphate APHA 4500P C

Phosphate	mg/L	0.05	<0.05	-
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Sample No.	Env-Lhr-847/2014-02			
Client ID	Proposed IGF Test Well # 02			
Sample Matrix	Ground Water			
Sample Date / Time	12-12-14	14:00		
Sample Receipt Date / Time	13-12-14	11:30		
Sampled By	SGS			WHO
Parameter	Results	LOR	Results	Guidelines

Metals by Atomic Absorption Spectroscopy / ICP-OES APHA 3111 D/3120 B

*Cadmium (Cd)	mg/L	0.002	<0.002	0.003
^Copper (Cu)	mg/L	0.005	<0.005	2
*Lead (Pb)	mg/L	0.05	<0.05	0.01
*Chromium (Cr)	mg/L	0.02	0.024	0.05
*Nickel (Ni)	mg/L	0.02	<0.02	0.07
*Zinc (Zn)	mg/L	1.0	<1.0	-
*Manganese (Mn)	mg/L	0.5	<0.5	-
^Selenium (Se)	mg/L	0.005	0.014	0.04
^Arsenic (As)	mg/L	0.005	<0.005	0.01
^Barium (Ba)	mg/L	0.005	0.025	0.7
^Boron (B)	mg/L	0.005	0.050	2.4
*Antimony (Sb)	mg/L	0.1	<0.1	0.02
*Aluminum (Al)	mg/L	0.02	<0.02	-

Mercury by ICP-OES APHA 3112 B

^Mercury (Hg)	mg/L	0.001	<0.001	0.006
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Chloro-Pesticides USEPA 5030 & 8081-A

^Pesticides, Total	µg/L	1.0	**	-
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Total Poly Nuclear Aromatic Hydrocarbon USEPA 8100

Total PAH	mg/L	0.50	<0.50	-
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Total Colony Count Pour Plate Technique APHA 9215 B 22nd Edition

*Total Colony Count	CFU /ml	-	110	-
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Total Coliforms Membrane Filtration Technique APHA 9222 B 22nd Edition

*Total Coliforms	CFU/100ml	-	Absent	0 CFU / 100ml
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Fecal Coliforms (E.coli) Membrane Filtration Technique APHA 9222 D 22nd Edition

* Fecal Coliforms (<i>E.coli</i>)	CFU/100ml	-	Absent	0 CFU / 100ml
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Fecal Streptococci Enterococci Membrane Filtration Technique APHA 9230 C 22nd Edition

*Fecal Streptococci Enterococci	CFU /100ml	-	Absent	-
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Pseudomonas aeruginosa Membrane Filtration Technique APHA 9213 E 22nd Edition

<i>Pseudomonas aeruginosa</i>	CFU /100ml	-	Absent	-
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Sample No.	Env-Lhr-847/2014-03		Env-Lhr-847/2014-04		Env-Lhr-847/2014-05	
Client ID	Proposed IGF Test		Proposed IGF Test		Proposed IGF Test	
Sample Matrix	Well # 02		Well # 02		Well # 02	
Sample Date / Time	Ground Water		Ground Water		Ground Water	
Sample Receipt Date / Time	14-12-14	16:30	15-12-14	16:30	17-12-14	16:30
Sampled By	15-12-14	17:45	16-12-14	11:20	18-12-14	10:30
Parameter	Results	LOR	Results	Results	Results	WHO Guidelines

Color APHA-2120 B/C 22nd Edition

Color	Pt-Co	5.0	<5.0	<5.0	<5.0	≤15 TCU
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Turbidity APHA 2130 B B 22nd Edition

Turbidity	NTU	0.20	7.2	6.4	2.1	-
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Odour In House (Organoleptic)

Odour	-	-	Odourless	Odourless	Odourless	-
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Taste Organoleptic

Taste	-	-	Tasteless	Tasteless	Tasteless	-
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pH APHA 4500H+ B 22nd Edition

*pH @ 25 °C	pH unit	0.1	7.61	7.56	7.68	-
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Total Dissolved Solid APHA 2540 C 22nd Edition

*Solids, Total Dissolved (TDS)	mg/L	5.0	354.0	357.0	342.0	-
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Total, Hardness APHA 2340 A, C & B 22nd Edition

*Hardness, Total as CaCO ₃	mg/L	1.0	200.0	200.0	200.0	-
*Calcium	mg/L	1.0	54.88	54.88	54.88	-
*Magnesium	mg/L	1.0	16.26	16.26	16.26	-

Nitrate, Nitrogen (NO₃) Micro APHA 4500 NO₃ D / B

Nitrate (NO ₃), Nitrogen	mg/L	0.003	10.26	10.23	9.37	50
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Nitrate, Nitrogen (NO₂) Micro APHA 4500 NO₂ B

Nitrite (NO ₂), Nitrogen	mg/L	0.003	<0.003	<0.003	<0.003	3
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Cyanide APHA 4500 CN F

Cyanide (CN)	mg/L	0.05	<0.05	<0.05	<0.05	-
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Fluoride APHA 4500 F C

Fluoride F	mg/L	0.10	0.42	0.42	0.38	1.5
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Total Phenols APHA 5530 D

Phenols, Total (Phenolic Compounds)	mg/L	0.01	<0.01	<0.01	<0.01	-
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Chloride APHA-4500Cl- B

*Chloride	mg/L	0.5	15.31	15.31	13.40	-
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Chlorine Macro APHA 4500 Cl B & C

Chlorine (Residual)	mg/L	1.0	<1.0	<1.0	<1.0	-
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Sulfate APHA 4500 SO₄²⁻ C

*Sulfate (SO ₄ ²⁻)	mg/L	5.0	20.16	21.40	13.99	-
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Phosphate APHA 4500P C

Phosphate	mg/L	0.05	<0.05	<0.05	<0.05	-
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Conductivity, Electrical APHA-2510 B 22nd Edition

Conductivity, Electrical	µS/cm	2.0	526.0	528.0	528.0	-
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Sample No.	Env-Lhr-847/2014-03		Env-Lhr-847/2014-04		Env-Lhr-847/2014-05	
Client ID	Proposed IGF Test		Proposed IGF Test		Proposed IGF Test	
Sample Matrix	Well # 02		Well # 02		Well # 02	
Sample Date / Time	Ground Water		Ground Water		Ground Water	
Sample Receipt Date / Time	14-12-14 16:30		15-12-14 16:30		17-12-14 16:30	
Sampled By	15-12-14 17:45		16-12-14 11:20		18-12-14 10:30	
Parameter	Results	LOR	Results	Results	Results	WHO Guidelines

Total Suspended Solid APHA 2540 D 22nd Edition

*Solids, Total Suspended (TSS)	mg/L	5.0	<5.0	<5.0	<5.0	-
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Organic Carbon, Total (TOC) HACH Method 10129

Organic Carbon, Total (TOC)	mg/L	0.30	<0.30	<0.30	<0.30	-
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Ammonium APHA-4500NH₄ D 22nd Edition

NH ₄	mg/L	0.1	<0.1	<0.1	<0.1	-
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Alkalinity, Bicarbonate as CaCO₃ APHA-2320 B 22nd Edition

*Alkalinity, Bicarbonate as CaCO ₃	mg/L	1.0	224.72	224.72	224.72	-
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Silica Dioxide (SiO₂) APHA-4500SiO C

*Silica Dioxide (SiO ₂)	mg/L	0.02	21.69	21.65	21.59	-
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Temperature Thermometer

Temperature	°C	-	18.3	18.2	18.2	-
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Metals by Atomic Absorption Spectroscopy / ICP-OES APHA 3111 D/3120 B

*Cadmium (Cd)	mg/L	0.002	<0.002	<0.002	<0.002	0.003
^Copper (Cu)	mg/L	0.005	<0.005	<0.005	<0.005	2
*Lead (Pb)	mg/L	0.05	<0.05	<0.05	<0.05	0.01
*Chromium (Cr)	mg/L	0.02	<0.02	<0.02	<0.02	0.05
*Nickel (Ni)	mg/L	0.02	<0.02	<0.02	<0.02	0.07
*Zinc (Zn)	mg/L	1.0	<1.0	<1.0	<1.0	-
*Manganese (Mn)	mg/L	0.5	<0.5	<0.5	<0.5	-
^Selenium (Se)	mg/L	0.005	<0.005	<0.005	0.018	0.04
^Arsenic (As)	mg/L	0.005	<0.005	<0.005	<0.005	0.01
^Barium (Ba)	mg/L	0.005	0.036	0.035	0.046	0.7
^Boron (B)	mg/L	0.005	0.057	0.055	0.037	2.4
*Antimony (Sb)	mg/L	0.1	<0.1	<0.1	<0.1	0.02
^Strontium (Sr)	mg/L	0.005	0.436	0.449	0.447	-
*Aluminum (Al)	mg/L	0.02	<0.02	<0.02	<0.02	-
*Sodium (Na)	mg/L	1.0	30.40	32.0	34.2	-
*Potassium (K)	mg/L	0.2	1.82	1.81	1.81	-
^Iron (Fe)	mg/L	0.005	0.090	0.150	0.080	-

Mercury by ICP-OES APHA 3112 B

^Mercury (Hg)	mg/L	0.001	<0.001	<0.001	<0.001	0.006
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Chloro-Pesticides USEPA 5030 & 8081-A

^Pesticides, Total	µg/L	1.0	**	**	**	-
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Total Poly Nuclear Aromatic Hydrocarbon USEPA 8100

Total PAH	mg/L	0.50	<0.50	<0.50	<0.50	-
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Total Colony Count Pour Plate Technique APHA 9215 B 22nd Edition

*Total Colony Count	CFU /ml	-	12	570	6.6×10 ³	-
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Total Coliforms Membrane Filtration Technique APHA 9222 B 22nd Edition

*Total Coliforms	CFU/100ml	-	Absent	Absent	Absent	0 CFU / 100ml
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Sample No.			Env-Lhr-847/2014-03	Env-Lhr-847/2014-04	Env-Lhr-847/2014-05	
Client ID			Proposed IGF Test	Proposed IGF Test	Proposed IGF Test	
			Well # 02	Well # 02	Well # 02	
Sample Matrix			Ground Water	Ground Water	Ground Water	
Sample Date / Time			14-12-14 16:30	15-12-14 16:30	17-12-14 16:30	
Sample Receipt Date / Time			15-12-14 17:45	16-12-14 11:20	18-12-14 10:30	
Sampled By			SGS	SGS	SGS	WHO
Parameter	Results	LOR	Results	Results	Results	Guidelines

Fecal Coliforms (*E.coli*) Membrane Filtration Technique APHA 9222 D 22nd Edition

* Fecal Coliforms (<i>E.coli</i>)	CFU/100ml	-	Absent	Absent	Absent	0 CFU / 100ml
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Fecal Streptococci Enterococci Membrane Filtration Technique APHA 9230 C 22nd Edition

*Fecal Streptococci Enterococci	CFU /100ml	-	Absent	Absent	Absent	-
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***Pseudomonas aeruginosa* Membrane Filtration Technique APHA 9213 E 22nd Edition**

<i>Pseudomonas aeruginosa</i>	CFU /100ml	-	Absent	Absent	Absent	-
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FOOTNOTE

TCC	Total Colony Count
P/A	Present / Absent
MPN	Most Probable Number
TPC	Total Plate Count
TVA	Total Viable Count & Total Bacteria
*	This analysis is covered by the scope of accreditation.
**	Result will follow soon
^	Test conducted at sub contracted lab SGS Karachi.
LOR	Limits Of Reporting

Sample analyzed as received.

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