



# QUARTERLY REPORT BOTTLED WATER QUALITY

(July-September, 2011)



**PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES**  
**Ministry of Science & Technology**  
Khyban-e-johar, H-8/1, Islamabad.  
[www.pcrwr.gov.pk](http://www.pcrwr.gov.pk)

July-September, 2011



## INTRODUCTION

Drinking water quality is deteriorating continually due to biological contamination from human waste, chemical pollutants from industries and agricultural inputs. Piped water also gets contaminated because pipes are laid very close to sewerage lines or open drains and cause many serious water borne diseases. It was found that 45% of infant deaths have been attributed to diarrhea and about 60% to overall infectious waterborne diseases in Pakistan. According to the World Health Organization (WHO) 25-30% of the diseases are gastro-intestinal in nature. The poor quality of drinking water has forced a large cross-section of citizens to buy bottled water. As a consequence of this expanding market a mushroom growth of bottled water industry in the country is witnessed during the last few years. However, many of the mineral water companies were found selling contaminated water. To monitor and improve the quality of bottled water, the government of Pakistan has designated the PCRWR as focal point agency.

1. Ministry of Science & Technology informed PCRWR Vide U.O. No. 5(21)/2004-ATA-II dated 17.10.2005 that the Cabinet in its meeting under the chairmanship of Prime Minister directed Ministry of Science & Technology to undertake regular survey/samples of bottled/mineral water at source of production, publicize the results on a quarterly basis and follow up with punitive/legal action.
2. Ministry of Science & Technology has assigned the task of quality monitoring of bottled water and publicize the results to PCRWR Vide U.O. No.1(1)/2005-Secy (MoST) dated 8.12.2005.

## PCRWR SAMPLING METHODOLOGY

No. of Brands Collected	75	
No. of Cities Targeted	14 (Islamabad, Rawalpindi, Lahore, Bahawalpur, Faisalabad, D.G Khan, D.I.Khan, Sialkot, Sahiwal, Peshawar, Quetta, Karachi, Nawab Shah and Hyderabad.)	
Composition of Sampling Team	One Research Officer and Two Laboratory Assistants	
Sampling Procedure	Samples of seventy five commercially available brands of mineral/bottled water were collected from fourteen cities of four Provinces of Pakistan These samples were collected by the senior staff members of Head Office and Regional Offices of PCRWR from July-September, 2011. A set of four bottles of each brand was collected and sealed on site. Identification codes are allotted to all the brands according to PCRWR Bottled Water Classification System.	
Transparency	Sample No. 1	Handed over to shopkeeper at the time of sample collection;
	Sample No. 2	Preserved in the National Water Quality Laboratory of PCRWR, Islamabad for future record,
	Sample No. 3	Used for Microbiological Analysis
	Sample No. 4	Used for Physico-chemical Analysis

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**PCRWR BOTTLED WATER CLASSIFICATION SYSTEM**

Sr. No	Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Claimed Bottled Water Type	Size	Name & Address of Seller/Shop Keeper	Manufacturer
1	Life	BWQ-01	Islamabad	02-08-11	-	-	0.6 Liter	Shah Faisal Life Water Industries Plot # 167, Street # 9 I-10/3 Islamabad	Shah Faisal Plot # 167, Street # 9 I-10/3 Islamabad
2	Venora	BWQ-02	Islamabad	02-08-11	09/2012	-	0.6 Liter	Plot # 238 Block B St # 8 I-9/3 Islamabad	Plot # 238 Block B st # 8 I-9/3 Islamabad
3	Atlantis	BWQ-03	Rawalpindi	02-08-11	03/2012	-	1.5 Liter	Plot # 615 P O Fazaia Rawalpindi	Plot # 615 P O Fazaia Rawalpindi
4	A- One	BWQ-04	Islamabad	02-08-11	-	-	1.5 Liter	52 B Industrial Triangle Area Hummak Kahuta Road Islamabad	52 B Industrial Triangle Area Hummak Kahuta Road Islamabad
5	Ripple	BWQ-05	Rawalpindi	02-08-11	02/2012	-	1.5 Liter	Main Mirpur Road Al-Noor Colony, Sec # 03 Corner of Street # 6 behind Faizaia Colony Rawalpindi.	Main Mirpur Road Al-Noor Colony, Sec # 03 Corner of Street # 6 behind Faizaia Colony Rawalpindi.
6	Nectar	BWQ-06	Islamabad	02-08-11	-	-	0.5 Liter	Plot # 14/10 G-7 Markaz Islamabad	Plot # 14/10 G-7 Markaz Islamabad
7	Hydra	BWQ-07	Islamabad	02-08-11	-	-	5.5 Liter	Pakistan PVC Limited(Food Division) Plot # 31-A I-9 Industrial Area Islamabad	Pakistan PVC Limited(Food Division) Plot # 31-A I-9 Industrial Area Islamabad
8	Hamaliya	BWQ-08	D.I Khan	07-07-11	02/2012	-	0.5 Liter	Abdul Wahid The Product of H2O Solution (Pvt) Ltd. Indus River Road opposite Mela Ground D.I.Khan	Abdul Wahid The Product of H2O Solution (Pvt) Ltd. Indus River Road opposite Mela Ground D.I.Khan
9	Safi	BWQ-09	D.I Khan	08-07-11	06/2012	-	1.5 Liter	Saqi Jam Cheshma Mineral Water near Grid station D. I Khan	Cheshma Mineral Water near Grid Station D. I Khan
10	Clear	BWQ-10	Sahiwal	27-07-11	08/2012	-	0.6 Liter	M. Ashraf Tariq Hasan Agro Food Industries 173/A Small Industrial Estate Sahiwal	Hasan Agro Food Industries 173/A Small Industrial Estate Sahiwal
11	Vital	BWQ-11	Sahiwal	27-07-11	08/2012	-	0.6 Liter	Masroor	Al-Mansoor

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	Happy life								Hussain Al-Mansoor Consumer Products 7 km Multan Road Sahiwal	Consumer Products 7 km Multan Road Sahiwal
12	Pan Pura	BWQ-12	Sahiwal	28-07-11	04/2012		0.6 Liter	Mr.Abdul Mujeeb Al Aziz Enterprises 253 F B Tufailabad Burewala-067-3008150	Al Aziz Enterprises 253 F B Tufailabad Burewala-067-3008150	
13	Nadiq water	BWQ-13	Sahiwal	28-07-11	10/2012	-	0.6 Liter	Bashir Hussain Sherazi, Roots Enterprises 10 KM Faisalabad Road Sahiwal	Roots Enterprises 10 KM Faisalabad Road Sahiwal	
14	Freshlay	BWQ-14	Sahiwal	29-07-11	12/ 2012	-	0.6 Liter	Muhammad Ferhan Shan Shopping Corner, Tufail Shaeed Road Sahiwal.	Madina Water Bottling Plant, Arifwala Road Bahawalnagar	
15	Aqua Drops	BWQ-15	Sahiwal	29-07-11	-	-	0.6 Liter	M. Mahfooz Ahmad Sea Rose Tuck Shop Faisal Mover Terminal Sahiwal.	Friendship Company E-32 Main Boulevard Main Market Gulberg II Lahore, 0334-4283299	
16	Vey	BWQ-16	Hyderabad	31-07-11	07/2011	-	0.6 Liter	Al-Medina General Store Naseem Nagar Chowk Qasimabad, Hyderabad	424- Bhayani Center Block M North Nazimabad Karachi 74700	
17	Aqua fina	BWQ-17	Hyderabad	31-07-11	06/2012	-	0.5 Liter	Badin Stop Hyderabad	Filled by Pakistan Beverages Ltd, Survey # 212, Deh Konkas District Malir, Karachi	
18	Kinley	BWQ-18	Hyderabad	31-07-11	05/2012	-	0.5 Liter	Raja Medical Store Pakora Stop Qasimabad, Hyderabad	Coca Cola Beverages Pakistan Ltd. D-51 State Avenue S.I.T.E Karachi	
19	Nestle	BWQ-19	Hyderabad	31-07-11	07/2012	-	0.5 Liter	Muhammad Asad Photostate & PCO Soldier Bazar, Saddar, Hyderabad	Bottled by Nestle Pakistan Ltd 308 Upper Mall Lahore, 54000.	
20	Noble	BWQ-20	Hyderabad	31-07-11	12/2012	-	0.6 Liter	Bhejan General Store, Tower Market,	Tower Market Hakeem Habib Road	

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								Hyderabad	Hyderabad,02 2-2620636
21	Sprinkle	BWQ-21	Hyderabad	31-07-11	12/2012	-	0.6 Liter	New Arif Medical Store Jail Road City Gate Hyderabad	E-10 Al-Azam Square F.B. Area Block-1, Karachi.
22	Al-Habib	BWQ-22	Hyderabad	31-07-11	12/2012		0.6 Liter	Akhlaq General Store, Jail Road City Gate Hyderabad	E-10 Al-Azam Square F.B. Area Block-1, Karachi.
23	Valley	BWQ-23	Islamabad	10-08-11	12/2012	-	1.5 Liter	Bismillah SB Store Pehlwan Goth Shop # 06	Head office 802 Regal Trade Square Sadder Karachi
24	Splash Dew	BWQ-24	Islamabad	10-08-11	02/2012		1.5 Liter	Plot # 139 St # 9, I-10/3 Islamabad	Plot # 139 St # 9, I-10/3 Islamabad
25	Berg	BWQ-25	Rawalpindi	10-08-11	-	-	0.6 Liter	M-185/2 St # 12 Iqbal Pura Rawalpindi	M-185/2 St # 12 Iqbal Pura Rawalpindi
26	Aqua Safe	BWQ-26	Lahore	14-07-11	05/2012	-	0.6 Liter	Zahid Pan Shop Station Lahore.	Aqua Safe Pakistan (Pvt) Ltd.96 Mcleod Road Lahore
27	Sufi	BWQ-27	Lahore	14-07-11	05/2013	-	0.6Liter	New Mehmood Pharmacy Chowk Mayo Hospital	Hadayat Food Stuffs, Industries(Pvt) Ltd., 1-B Garden Block Garden Town Lahore
28	Nation	BWQ-28	Lahore	14-07-11	08/2012	-	0.6 Liter	Mohsin Cold Corner Laari Adda Lahore.	Hamza Brothers, 9 k.m G.T Road Rachna Town Shahdara Lahore
29	National	BWQ-29	Lahore	14-07-11	03/2012	-	1.5 Liter	Mohsin Cold Corner Laari Adda Lahore	Milli Brothers, 8 k.m G.T Road Shahdara Lahore
30	Aquafeen	BWQ-30	Lahore	16-07-11	07/2011	-	1.5 Liter	Jholay Laal Cold Corner near Bypass Multan Road Lahore	Khyber Agency Bara
31	Springley	BWQ-31	Lahore	14-07-11	10/2010	-	1.5 Liter	Five Star Medical Store (1-M Block) Sairah Memorial Trust Hospital, Model Town Lahore.	Qarshi Industries (Pvt) Ltd. Jam-e-Shirin Boulevard 15- G Gullberg III Lahore
32	Niamat	BWQ-32	Lahore	16-07-11	09/2012	-	1.5 Liter	Water World, Boby Plaza Compound Opposite Munshi Hospital Ring Road Lahore	Water World, Boby Plaza Compound Opposite Munshi Hospital Ring Road Lahore
33	Premier	BWQ-33	Lahore	14-07-11	05/2012	-	1.5 Liter	Pak. Madina	Zafir

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								Store Railway Station Lahore	Industries (pvt.) Ltd. 19 k.m near High noon Laboratories Multan Road Lahore
34	Gourmet	BWQ-34	Lahore	14-07-11	10/2011	-	1.5 Liter	Gourmet Bakery and Sweet Model Town Link Road Lahore	Gourmet Foods (Pvt) Ltd., I-5 Sundar Industrial Estate Lahore
35	Klinz	BWQ-35	Lahore	16-07-11	01/2012	-	1.5 Liter	Klinz Foods (Pvt) Ltd. 60-L Model Town Ext. Lahore	Klinz Foods (Pvt) Ltd. 60-L Model Town Ext. Lahore
36	Aqua RO 7	BWQ-36	Lahore	16-07-11		-	1.5 Liter	International Pan Shop Allah Hoo Chowk Johar Town Lahore.	Waqar Haider Brothers( Pvt) Ltd. 7.5 Raiwind Road Lahore
37	Uni Pak	BWQ-37	Lahore	16-07-11	09/2011	-	1.5 Liter	Jholay Laal Cold Corner near Bypass Multan Road Lahore	Uni Pak Food Products (Pvt) Ltd. 304, Sufi Chamber, Link Mcleod Road Lahore
38	Ab-e-Hayat	BWQ-38	D.G. Khan	01-07-11	03/2012	--	0.5 Liter	Qasarani Super Store Khyabane-Sarwardi Block-C D.G.Khan	Amrat,185/6 Road L-9 Gadoon Industrial Estate
39	Cool	BWQ-39	D.G. Khan	01-07-11	06/2012	-	0.6 Liter	Imran Keryana Store, Trafic Chowk Main City D.G. Khan	Hamaliya, Balakh Sarwar City Jam Pur Road, D.G. Khan
40	IVA Pure	BWQ-40	Rawalpindi	12-07-11	12/2011	-	1.5 Liter	ME 234/68 Tipu Road Rawalpindi, 051-2566558	ME 234/68 Tipu Road Rawalpindi, 051-2566558
41	Margalla	BWQ-41	Islamabad	12-07-11	11/2011	-	1.5 Liter	Plot # 253 street # 06, I-9/2 Islamabad	Plot # 253 street # 06, I-9/2 Islamabad
42	Tahoor	BWQ-42	Quetta	16-07-11	-	-	1.5 Liter	Shafiq Ufan Super Store, Setllite Town Quetta.	A.S Enter prises Plot # 518 Block 36 Defense Garden D.H.A, Phase I, Karachi
43	Jel	BWQ-43	Quetta	16-07-11	12/2012	-	1.5 Liter	Al-Shafi Medical Store, Zarghoon Road, Quetta	Mega Fine Industries, Plot # A- 92 Mallir Industrial Area Malir Karachi
44	Aqua Hygienic	BWQ-44	Quetta	16-07-11	-	-	1.5 Liter	Shahzaman Agha Medical Store, Shahbaz Town Quetta Cantt.	Zuhras (Pvt) Ltd. A-One City Street # 07,Brewery Road Quetta

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45	<b>New Everest</b>	BWQ-45	Sialkot	23-08-11	06/2012	-	1.5 Liter	Nirala Sweets and Bakers, Allama Iqbal Chowk, Sialkot	By pass Jhang Road Kabirwala
46	<b>Hunza Spring</b>	BWQ-46	Sialkot	22-0711	12/2012	-	1.5 Liter	Nirala Sweets and Bakers, Allama Iqbal Chowk, Sialkot	Tehsil & District Jhelum, 0554-735000
47	<b>Isberg</b>	BWQ-47	Sialkot	22-0711	08/2012	-	0.6 Liter	Premier Water Refining Company Dhabola Roras Road Sialkot	Premier Water Refining Company Dhabola Roras Road Sialkot
48	<b>Eco</b>	BWQ-48	Sialkot	22-0711	07/2012	-	0.6 Liter	J& J Foods nd Beverages Roras Road Naul Chowk Sialkot	J& J Foods nd Beverages Roras Road Naul Chowk Sialkot
49	<b>Al-Shalal</b>	BWQ-49	Sialkot	22-0711	08/2012	-	0.6 Liter	Azo-Enterprises 14 K.M, Aminabad Road Sialkot	Azo-Enterprises 14 K.M, Aminabad Road Sialkot
50	<b>Aqua Save</b>	BWQ-50	Sialkot	22-0711	08/2012	-	0.6 Liter	SFS Mineral Water Company Wazirabad Road Jalianwala Ugoki Sialkot	SFS Mineral Water Company Wazirabad Road Jalianwala Ugoki Sialkot
51	<b>Rise Water</b>	BWQ-51	Sialkot	23-07-11	06/2012	-	0.6 Liter	Glocy Foods (Pvt) Ltd. 3-K.M, Kingra Road Sialkot	Glocy Foods (Pvt) Ltd. 3-K.M, Kingra Road Sialkot
52	<b>Legend</b>	BWQ-52	Nawab Shah	15-08-11	12/2012	-	0.6 Liter	Venus Medical Store, Hospital Road Nawabshah	Multi Food Industrial Plot # D-42 Malir Industrial Estate Malir Karachi
53	<b>Eman</b>	BWQ-53	Nawab Shah	15-08-11	-	-	0.6 Liter	Venus Medical Store, Hospital Road Nawabshah	Eman Water Plot No. 150 Korangi Sector 27, Industrial Area Karachi
54	<b>Selina</b>	BWQ-54	Nawab Shah	15-08-11	12/2013	-	0.6 Liter	Akash Medical Store Hospital Road Nawabshah	Soft Water Technology Plot No. 4-A-4/19 Nazimabad No. 4 Karachi
55	<b>Blu Water</b>	BWQ-55	Nawab Shah	15-08-11	06/2012	-	0.6 Liter	Gillani General Store Housing Society Nawabshah	Al-Hilal Industrial (Pvt) Ltd. Sultan Nagar Vehari Road Multan
56	<b>Taskeen</b>	BWQ-56	Karachi	03-08-11	-	-	1.5 Liter	Ali Super Store and Traders Shop #1-2 Mujahid	WM Foods H-No. 06 St- No. 595 A.Y.H.S. Karachi

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								Town, Gulstan-e- Johar, Karachi.	
57	Miracle	BWQ-57	Karachi	03-08-11	08/2012	-	1.5 Liter	Hydrodynamic Plot WSA- 23 Block -14 F.B Area Karachi	Hydrodynamic Plot No. WSA- 23 Block -14 F.B Area Karachi
58	Aktive	BWQ-58	Karachi	04-08-11	12/2012	-	1.5 Liter	Bismillah bakery and General Store, Maryam Manzil, M. Khan Jamot Road Nayababad, Karachi	P.K Water and Bewerage Plot No. A-131, Bloack A Schem new S.ITE. Area Super Highway Karachi
59	Al-Massafi	BWQ-59	Karachi	03-08-11	02/2012	-	1.5 Liter	Habib Jan Store, Hospital Chorangi Opposite Social Security Hospital, Landline, Karachi	Al- Massafi Foods, Plot No. S-3, S-4, Malir City Karachi
60	Aqua Nasa	BWQ-60	Karachi	03-08-11	-	-	1.5 Liter	Bismillah S.B. Store, Pehlwan Goth, Karachi.	M/S Nasa Group, Plot No. C-11, Gulzar-e-Hijri Schem-33 Gulshan Town Karachi
61	Oclear	BWQ-61	Karachi	04-08-11	07-2012	-	1.5 Liter	Liaqat College Canteen Landline Hospital (SESSI)	ESSENTIA Food Industries E-T, Suit # 2 Defense view Phase-II Karachi
62	Hydro Clear	BWQ-62	Karachi	03-08-11			0.6 Liter	Rehman Bakery, S-1 Area, Near R.C.D. Ground, Malir Karachi.	Hydro Safe Pakistan, 15/25 Model Colony Karachi
M	Marjan	BWQ-63	Karachi	04-08-11			0.6 Liter	Mushtaque Bakery and General Store,Gali No. 02, Shahwaliullah Road Nayababad, Karachi	Saify Food Products, Plot No. A-K6,8 Street 3 2 Lyari Town Karachi
64	Water Plus	BWQ-64	Karachi	04-08-11	12/2012	-	0.6 Liter	Iqbal Kiryana Store, Gali No. 01 Liaqat Colony, Shahwaliullah Road Lyari, Karachi.	Mega Fine Industries Plot No. A-92 Malir Industrial Area Malir Karachi
65	Zindagi plus	BWQ-65	Karachi	04-08-11			0.6 Liter	Iqbal Kiryana Store, Gali No. 01 Liaqat	Soft Water Technology Plot No. 4-A

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								Colony, Shahwaliullah Road Lyari, Karachi.	419 Nazimabad Karachi
66	Orion	BWQ-66	Karachi	04-08-11	05/2012	-	0.6 Liter	Sher Ali Store, Near Landline Hospital (SESSI)	Orion Foods, E-1 Suit # 2 Defense view Phase II Karachi
67	Blue Gold	BWQ-67	Karachi	03-08-11		-	0.6 Liter	D-1/54, Malir, Model Colony, Karachi.	Aqua Traders, I-G Refah-e- Aam Society Malir Halt Karachi
68	ORO	BWQ-68	Karachi	03-08-11	12/2012	-	0.6 Liter	C-24, S-2, Area Saudabad, Opposite Govt. College for Women Saudabad, Malir, Karachi	Orbit Enterprises Sweet Homes, Land Model Colony Karachi
69	Pineo	BWQ-69	Bahawalpur	09-08-11	-	-	0.6 Liter	Al- Khair Pharmacy and Medical Store.	Gysing Pak DDR-1, PSIE, Bahawalpur
70	Aspen Aqua	BWQ-70	Bahawalpur	09-08-11	05/2012	-	1.5 Liter	New Rasheed Medical Store, Bahawal Victoria Hospital Bahawalpur	Gysing Pak DDR-1, PSIE, Bahawalpur
71	Moya	BWQ-71	Peshawar	09-08-11		-	0.6 Liter	Mr. Khuram Rasheed Plot No. 580/B Main Gulberg No. 1 Peshawar Cantt.	Moya Mineral Water Processed by Al-Saudia Enterprises, Plot No. 580/B Main Gulberg No. 1 Peshawar Cantt.
72	Khyber Aqua	BWQ-72	Peshawar	21-09-11	09/2012	-	0.6 Liter	Samana General Store Hayatabad Complex Peshawar	Biokon Moya Services:- H-# 47, St. 3 1 Eid Gah Colony Charsadda Road Peshawar
73	Aqua Sure	BWQ-73	Peshawar	21-09-11	2012	-	0.6 Liter	Mr. Shakeel Hajji Camp Adda. Peshawar	Shine Industrial G-T- Road Nasir Pure Peshawar
74	Natural Aqwah	BWQ-74	Peshawar	21-09-11	01/2012	-	0.6 Liter	Water Factory Street No. 07 Canal Colony Nasir Bagh Road University Board Peshawar.	R.G. Enterprises, Nasir Bagh Road University Board Peshawar.
75	Al- Saudia	BWQ-75	Faisalabad	05-07-11		-	0.6 Liter	Al Saudia Pure Drinking Water 77-K Gulistan Colony Faisalabad	Al-Saudia Pure Drinking Water 77-K Gulistan Colony Faisalabad



**WATER QUALITY PARAMETERS AND METHODS USED FOR ANALYSIS**

Sr. #	PARAMETERS	ANALYTICAL METHOD
1.	Alkalinity (m.mol/l as CaCO <sub>3</sub> )	2320, Standard method (1992)
2.	Arsenic (ppb)	AAS Vario 6, Analytik Jena AG
3.	Bicarbonate	2320, Standard method (1992)
4.	Calcium (mg/l)	3500-Ca-D, Standard Method (1992)
5.	Carbonate (mg/l)	2320, Standard method (1992)
6.	Chloride (mg/l)	Titration (Silver Nitrate), Standard Method (1992)
7.	Color (TCU)	Sensory Test
8.	Conductivity (µS/cm)	E.C meter, Hach-44600-00, USA
9.	Hardness (mg/l)	EDTA Titration, Standard Method (1992)
10.	Magnesium (mg/l)	2340-C, Standard Method (1992)
11.	Nitrate Nitrogen (mg/l)	Cd. Reduction (Hach-8171) by Spectrophotometer
12.	Odor	Sensory Test
13.	pH	pH Meter, Hanna Instrument, Model 8519, Italy
14.	Potassium (mg/l)	Flame photometer PFP7, UK
15.	Sodium (mg/l)	Flame photometer PFP7, UK
16.	Sulfate (mg/l)	SulfaVer4 (Hach-8051) by Spectrophotometer
17.	Phosphate (mg/l)	8190 and 8048 (Hach)
18.	Taste	Sensory Test
19.	TDS (mg/l)	2540C, Standard method (1992)
20.	Turbidity (NTU)	Turbidity Meter, Lamotte, Model 2008, USA
21.	Fluoride (mg/l)	4500-F C. ion-Selective Electrode Method Standard method (1992)
22.	Iron (mg/l)	FerroVer method (HACH Cat. 21057-69)
23.	Total Coliforms (MPN/100ml)	IDEXX Quanti-Tray/2000 USA
24.	E. Coli (MPN/100ml)	IDEXX Quanti-Tray/2000 USA

**WATER QUALITY PERMISSIBLE LIMITS FOR BOTTLED WATER**

Sr. #	Parameter	Units	Permissible Limits		
			WHO	IBWA	PSQCA
1.	Alkalinity	(m.mol/l)	NGVS	NGVS	NGVS
2.	Bicarbonate	(mg/l)	NGVS	NGVS	NGVS
3.	Calcium	(mg/l)	NGVS	NGVS	100
4.	Carbonate	(mg/l)	NGVS	NGVS	NGVS
5.	Chloride	(mg/l)	250	250	250
6.	Co lour	(TCU)	15	NGVS	5
7.	Conductivity	(µS/cm)	NGVS	NGVS	NGVS
8.	Fluoride	(mg/l)	1.5	3	0.7
9.	Hardness	(mg/l)	NGVS	NGVS	NGVS
10	Iron	(mg/l)	0.3	0.3	0.3
11.	Magnesium	(mg/l)	NGVS	NGVS	50
12.	Odor	-	Odorless	NGVS	Unobjectionable
13.	Nitrate-N	(mg/l)	10	10	10
14.	pH	-	6.5-8.5	NGVS	6.5-8.5

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15.	Potassium	(mg/l)	NGVS	NGVS	10
16.	Sodium	(mg/l)	200	NGVS	50
17.	Sulfate	(mg/l)	250	250	250
18.	Taste	-	Unobject.	NGVS	Unobjectionable
19.	TDS	(mg/l)	1000	500	500
20.	Turbidity	(NTU)	5	NGVS	0.5
21.	Phosphate	(mg/l)	NGVS	NGVS	NGVS
22.	Arsenic	ppb	10	10	10
23.	Total Coliform	MPN/100ml	0	0	0
24.	E-Coli	MPN/100ml	0	0	0

**WHO** World Health Organization  
**IBWA** International Bottled Water Association  
**PSQCA** Pakistan Standards and Quality Control Authority

### SUMMARY OF RESULTS OF PCRWR MONITORING

#### CONTAMINANTS OF POTENTIAL CONCERNS FOUND IN BOTTLED WATER BRANDS

##### Arsenic ( Safe Limit : 10ppb)

Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Nadiq Water	BWQ-13	Sahiwal	ppb	52
2.	Nation	BWQ-28	Lahore	ppb	20
3.	National	BWQ-29	Lahore	ppb	11
4.	Naimat	BWQ-32	Lahore	ppb	22
5.	Premier	BWQ-33	Lahore	ppb	16
6.	New Everest	BWQ-45	Kabirwala	ppb	31
7.	Pineo	BWQ-69	Bahawalpur	ppb	13

##### Sodium ( Safe Limit : 50ppm)

Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Vital (Happy Life)	BWQ-11	Sahiwal	ppm	59
2.	Nation	BWQ-28	Lahore	ppm	60
3.	Aqua Hygienic	BWQ-44	Quetta	ppm	61
4.	Taskeen	BWQ-56	Karachi	ppm	57
5.	OClear	BWQ-61	Karachi	ppm	54
6.	Marjan	BWQ-63	Karachi	ppm	64
7.	ORO	BWQ-68	Karachi	ppm	63

##### TDS ( Safe Limit : 500ppm)

Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Aqua Hygienic	BWQ-44	Quetta	ppm	525

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BACTERIOLOGICAL: (Total Coliforms & E Coli)					
Sr. No	Brand Name	Code	Unit	Results	
				Total Coliforms MPN/100ml	E Coli MPN/100ml
1.	Rise Water	BWQ-51	0/100 ml	4.1	Nil
2.	Aspen Aqua	BWQ-70	0/100 ml	6.3	Nil
3.	Aqua Sure	BWQ-73	0/100 ml	1.0	Nil

PCRWR TESTING: SAFE BRANDS

Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
1.	Life	BWQ-01	Safe	Safe
2.	Venora	BWQ-02	Safe	Safe
3.	Atlantis	BWQ-03	Safe	Safe
4.	A- One	BWQ-04	Safe	Safe
5.	Ripple	BWQ-05	Safe	Safe
6.	Nectar	BWQ-06	Safe	Safe
7.	Hydra	BWQ-07	Safe	Safe
8.	Hamaliya	BWQ-08	Safe	Safe
9.	Safi	BWQ-09	Safe	Safe
10.	Clear	BWQ-10	Safe	Safe
11.	Pan Pura	BWQ-12	Safe	Safe
12.	Freshlay	BWQ-14	Safe	Safe
13.	Aqua Drops	BWQ-15	Safe	Safe
14.	Vey	BWQ-16	Safe	Safe
15.	Aqua fina	BWQ-17	Safe	Safe
16.	Kinley	BWQ-18	Safe	Safe
17.	Nestle	BWQ-19	Safe	Safe
18.	Noble	BWQ-20	Safe	Safe
19.	Sprinkle	BWQ-21	Safe	Safe
20.	Al-Habib	BWQ-22	Safe	Safe
21.	Valley	BWQ-23	Safe	Safe
22.	Splash Dew	BWQ-24	Safe	Safe
23.	Berg	BWQ-25	Safe	Safe
24.	Aqua Safe	BWQ-26	Safe	Safe
25.	Sufi	BWQ-27	Safe	Safe
26.	Aquafeen	BWQ-30	Safe	Safe
27.	Springley	BWQ-31	Safe	Safe
28.	Gourmet	BWQ-34	Safe	Safe
29.	Klinz	BWQ-35	Safe	Safe
30.	Aqua RO 7	BWQ-36	Safe	Safe
31.	Uni Pak	BWQ-37	Safe	Safe
32.	Ab-e-Hayat	BWQ-38	Safe	Safe
33.	Cool	BWQ-39	Safe	Safe

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34.	IVA Pure	BWQ-40	Safe	Safe
35.	Margalla	BWQ-41	Safe	Safe
36.	Tahoor	BWQ-42	Safe	Safe
37.	Jel	BWQ-43	Safe	Safe
38.	Hunza Spring	BWQ-46	Safe	Safe
39.	Isberg	BWQ-47	Safe	Safe
40.	Eco	BWQ-48	Safe	Safe
41.	Al-Shalal	BWQ-49	Safe	Safe
42.	Aqua Save	BWQ-50	Safe	Safe
43.	Legend	BWQ-52	Safe	Safe
44.	Eman	BWQ-53	Safe	Safe
45.	Selina	BWQ-54	Safe	Safe
46.	Blu Water	BWQ-55	Safe	Safe
47.	Miracle	BWQ-57	Safe	Safe
48.	Aktive	BWQ-58	Safe	Safe
49.	Al-Massafi	BWQ-59	Safe	Safe
50.	Aqua Nasa	BWQ-60	Safe	Safe
51.	Hydro Clear	BWQ-62	Safe	Safe
52.	Water Plus	BWQ-64	Safe	Safe
53.	Zindagi plus	BWQ-65	Safe	Safe
54.	Orion	BWQ-66	Safe	Safe
55.	Blue Gold	BWQ-67	Safe	Safe
56.	Moya	BWQ-71	Safe	Safe
57.	Khyber Aqua	BWQ-72	Safe	Safe
58.	Natural Aqwah	BWQ-74	Safe	Safe
59.	Al- Saudia	BWQ-75	Safe	Safe

**PCRWR TESTING: UNSAFE BRANDS**

Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
1.	Vital Happy Life	BWQ-11	Unsafe	Safe
2.	Nadiq Water	BWQ-13	Unsafe	Safe
3.	Nation	BWQ-28	Unsafe	Safe
4.	National	BWQ-29	Unsafe	Safe
5.	Naimat	BWQ-32	Unsafe	Safe
6.	Premier	BWQ-33	Unsafe	Safe
7.	Aqua Hygienic	BWQ-44	Unsafe	Safe
8.	New Everest	BWQ-45	Unsafe	Safe
9.	Rise Water	BWQ-51	Unsafe	Unsafe
10.	Taskeen	BWQ-56	Unsafe	Safe
11.	OClear	BWQ-61	Unsafe	Safe
12.	Marjan	BWQ-63	Unsafe	Safe
13.	ORO	BWQ-68	Unsafe	Safe
14.	Pineo	BWQ-69	Unsafe	Safe
15.	Aspen Aqua	BWQ-70	Unsafe	Unsafe
16.	Aqua Sure	BWQ-73	Unsafe	Unsafe



**MARKET CONSISTENCY IN TWO NEIGHBORING QUARTERS**

Sr. No	Consistent Brands	New Brands	Unavailable Brands
1.	Life	Freshlay	Pak Zam Zam
2.	Venora	Aqua Drops	Best Water
3.	Atlantis	Noble	Puurle
4.	A- One	Sprinkle	Good Lay
5.	Ripple	Al-Habib	Vital Sip of Life
6.	Nectar	Aqua Safe	Via
7.	Hydra	Niamat	Alfa
8.	Hamaliya	Aqua RO 7	Hydropsy
9.	Safi	Uni Pak	Sun Lay
10.	Clear	Ab-e-Hayat	Zindagi
11.	Vital Happy life	Margalla	Max Fresh
12.	Pan Pura	Tahoor	Spring Fresh
13.	Nadiq water	Aqua Hygienic	De Aar
14.	Vey	New Everest	Shinawar
15.	Aqua fina	Eman	Iqra Finu
16.	Kinley	Selina	Snow Drop
17.	Nestle	Taskeen	Kisan
18.	Valley	Al-Massafi	Liza
19.	Splash Dew	Oiclear	Vina
20.	Berg	Hydro Clear	Bake Master
21.	Sufi	Water Plus	Aqua-One
22.	Nation	Zindagi plus	Active
23.	National	Blue Gold	Well-O
24.	Aquafeen	ORO	Snow Valley
25.	Springley	Al- Saudia	Kashmir
26.	Premier		Fine Life
27.	Gourmet		Asal Pio Na
28.	Klinz		
29.	Cool		
30.	IVA Pure		
31.	Jel		
32.	Hunza Spring		
33.	Isberg		
34.	Eco		
35.	Al-Shalal		
36.	Aqua Save		
37.	Rise Water		



38.	Legend		
39.	Blu Water		
40.	Miracle		
41.	Aktive		
42.	Aqua Nasa		
43.	Marjan		
44.	Orion		
45.	Pineo		
46.	Aspen Aqua		
47.	Moya		
48.	Khyber Aqua		
49.	Aqua Sure		
50.	Natural Aqwah		

### DISEASE POTENTIAL FROM CONTAMINATED BOTTLED WATER

Sr. No	Contaminant	Diseases Impacts
1.	<b>Bacteriological Contamination</b>	Cholera, Diarrhea, Dysentery, Hepatitis, Typhoid
2.	<b>Arsenic</b>	Cancer (lungs, bladder, skin, prostate, kidney, nose and liver), diabetes kidney diseases, hypertension, heart diseases, birth defects, black foot diseases.
3.	<b>Sodium</b>	Hypertension
4.	<b>TDS</b>	Salty or bitter taste

### CONCLUSIONS

Sr. No	Item	Conclusion	
		No.	% age
1.	<b>Total No. of Brands Collected</b>	<b>75</b>	<b>-</b>
2.	<b>Overall safe brands</b>	<b>59</b>	<b>79</b>
3.	<b>No. of overall unsafe brands</b>	<b>16</b>	<b>21</b>
4.	<b>No. of Chemically safe brands</b>	<b>62</b>	<b>83</b>
5.	<b>No. of Chemically unsafe brands</b>	<b>13</b>	<b>17</b>
6.	<b>No. of Microbiologically safe brands</b>	<b>72</b>	<b>96</b>
7.	<b>No. of Microbiologically unsafe brands</b>	<b>3</b>	<b>4</b>
8.	<b>No. of Consistent brands in Market</b>	<b>50</b>	<b>67</b>
9.	<b>No. of brands disappeared from market</b>	<b>27</b>	<b>36</b>
10.	<b>No. of new brands</b>	<b>25</b>	<b>33</b>

Detailed water quality status of each bottled water brand is available at Annexure-1

### Chemical and Microbiological Quality of Bottled/Mineral Water Brands

Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO <sub>3</sub>	Cl	Na	F	PO <sub>4</sub>	Fe	K	NO <sub>3</sub>	SO <sub>4</sub>	As	Total Coliforms	E-Coli
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGVS	500	100	50	NGVS	NGVS	250	50	0.7	NGVS	0.3	10	10	250	10	0/100 ml	0/100 ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	0.03	0.03	0.03	0.2	0.06	0.4	0.1	-	-
Units	-	NTU		µS/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	MPN /100ml	MPN /100ml
Life	BWQ-01	BDL	7.56	633	348	84	12	260	265	15	38	0.37	0.04	BDL	1.4	4	11	1	Nil	Nil
Venora	BWQ-02	BDL	7.60	639	351	84	15	270	275	22	29	0.35	0.05	BDL	1.1	3	4	1	Nil	Nil
Atlantis	BWQ-03	BDL	7.49	338	186	48	10	160	75	58	4	0.10	BDL	BDL	0.3	0.1	BDL	0.5	Nil	Nil
A- One	BWQ-04	BDL	6.92	387	213	40	11	145	45	72	13	0.08	BDL	BDL	0.6	0.2	16	0.5	Nil	Nil
Ripple	BWQ-05	BDL	6.56	294	162	32	11	125	35	61	4	0.05	0.03	BDL	1.3	0.1	4	1	Nil	Nil
Nectar	BWQ-06	BDL	7.45	622	342	72	12	230	235	26	30	0.23	BDL	BDL	1.6	5	5	0.5	Nil	Nil
Hydra	BWQ-07	BDL	7.29	630	347	44	29	230	280	20	35	0.24	BDL	BDL	1.1	2.5	20	1	Nil	Nil
Hamaliya	BWQ-08	BDL	7.46	407	224	48	11	165	145	15	21	0.28	BDL	BDL	4.3	BDL	31	10	Nil	Nil
Safi	BWQ-09	BDL	6.62	388	213	40	10	140	80	58	25	0.16	BDL	BDL	1.4	0.2	16	1	Nil	Nil
Clear	BWQ-10	BDL	6.84	343	189	40	12	150	30	84	6	0.06	BDL	BDL	0.3	BDL	BDL	1	Nil	Nil
Vital Happy life	BWQ-11	BDL	7.36	530	292	40	7	130	85	80	59	0.67	0.06	BDL	2.9	0.5	36	2	Nil	Nil
Pan Pura	BWQ-12	BDL	7.10	379	208	44	10	150	50	75	13	0.37	0.03	BDL	0.3	BDL	8	1.5	Nil	Nil
Nadiq water	BWQ-13	BDL	7.09	393	216	52	7	160	170	BDL	14	0.22	BDL	BDL	2.2	BDL	14	52	Nil	Nil
Freshlay	BWQ-14	BDL	7.17	339	186	36	6	120	50	65	14	0.09	0.04	BDL	0.3	BDL	12	1	Nil	Nil
Aqua Drops	BWQ-15	BDL	7.72	195	107	16	5	60	90	6	21	BDL	0.03	BDL	0.7	BDL	BDL	4	Nil	Nil
Vey	BWQ-16	BDL	6.84	341	188	32	10	120	55	62	11	0.08	0.05	BDL	6.1	2	5	1	Nil	Nil
Aquafina	BWQ-17	BDL	7.56	251	138	Nil	15	60	60	31	26	0.07	BDL	BDL	0.9	BDL	31	1	Nil	Nil
Kinley	BWQ-18	BDL	6.68	602	331	40	15	160	45	142	44	BDL	BDL	BDL	2.2	BDL	16	1	Nil	Nil
Nestle	BWQ-19	BDL	7.24	393	216	40	10	140	55	80	12	0.30	0.07	BDL	0.3	BDL	4	2	Nil	Nil
Noble	BWQ-20	BDL	7.11	405	223	40	10	140	75	33	25	0.25	0.03	BDL	3.7	1.5	53	2	Nil	Nil
Sprinkle	BWQ-21	BDL	7.30	500	275	42	11	150	100	53	43	0.28	BDL	BDL	3.1	3	36	1	Nil	Nil
Al-Habib	BWQ-22	BDL	8.12	495	272	40	11	145	100	56	47	0.29	BDL	BDL	2.8	4	33	1	Nil	Nil
Valley	BWQ-23	BDL	7.04	280	154	40	5	120	125	6	11	0.15	BDL	BDL	0.4	2	BDL	1	Nil	Nil
Splash Dew	BWQ-24	BDL	7.17	473	260	56	12	190	190	12	21	0.34	0.03	BDL	0.9	3	4	1	Nil	Nil
Berg	BWQ-25	BDL	6.79	514	283	60	17	230	65	80	12	0.24	0.05	BDL	0.4	2.5	40	1	Nil	Nil
Aqua Safe	BWQ-26	BDL	7.75	617	339	40	22	190	105	72	49	0.24	BDL	BDL	2.2	0.3	71	9	Nil	Nil
Sufi	BWQ-27	BDL	6.88	404	222	52	4	145	40	83	10	0.07	BDL	BDL	BDL	BDL	BDL	1	Nil	Nil
Nation	BWQ-28	BDL	7.75	521	287	32	15	140	220	14	60	0.35	0.06	BDL	2.7	0.2	20	20	Nil	Nil

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National	BWQ-29	BDL	7.83	308	169	48	9	155	165	4	5	0.23	BDL	BDL	1.7	0.2	9	11	Nil	Nil
Aquafeen	BWQ-30	BDL	7.78	435	239	60	12	200	200	15	11	0.20	0.03	BDL	1.6	3	15	1	Nil	Nil
Springley	BWQ-31	BDL	7.54	554	305	88	4	235	250	8	20	0.26	BDL	BDL	1.1	3	BDL	1	Nil	Nil
Niamat	BWQ-32	BDL	7.70	344	189	28	18	145	145	11	18	0.47	BDL	BDL	1.5	0.2	19	22	Nil	Nil
Premier	BWQ-33	BDL	7.74	387	213	40	5	120	160	26	30	0.28	BDL	BDL	2.1	BDL	10	16	Nil	Nil
Gourmet	BWQ-34	BDL	6.76	377	207	40	7	130	45	61	17	0.13	0.04	BDL	BDL	BDL	27	1	Nil	Nil
Klinz	BWQ-35	BDL	6.68	176	97	Nil	13	55	85	5	21	0.07	0.03	BDL	0.8	0.2	BDL	2	Nil	Nil
Aqua RO 7	BWQ-36	BDL	6.84	400	220	40	12	150	50	73	16	0.07	0.05	BDL	BDL	BDL	14	5	Nil	Nil
Uni Pak	BWQ-37	BDL	7.37	262	144	38	11	140	75	53	3	0.21	BDL	BDL	0.6	BDL	BDL	5	Nil	Nil
Ab-e-Hayat	BWQ-38	BDL	7.43	519	285	60	15	210	240	10	19	0.26	0.04	BDL	2.3	BDL	27	1	Nil	Nil
Cool	BWQ-39	BDL	7.76	342	188	40	13	155	170	7	11	0.32	BDL	BDL	3.0	0.5	17	2	Nil	Nil
IVA Pure	BWQ-40	BDL	7.04	534	294	48	23	215	200	10	20	0.28	BDL	BDL	0.8	5	14	BDL	Nil	Nil
Margalla	BWQ-41	BDL	6.91	423	233	48	19	200	175	16	16	0.39	BDL	BDL	0.7	4	BDL	BDL	Nil	Nil
Tahoor	BWQ-42	BDL	7.19	166	91	16	7	70	35	23	7	0.35	0.07	BDL	1	0.5	9	BDL	Nil	Nil
Jel	BWQ-43	BDL	7.10	249	137	16	10	80	30	53	13	0.08	BDL	BDL	1.9	2.5	BDL	BDL	Nil	Nil
Aqua Hygienic	BWQ-44	BDL	7.95	954	525	64	29	280	115	174	61	0.38	BDL	BDL	1.5	4	44	BDL	Nil	Nil
New Everest	BWQ-45	BDL	8.39	374	206	24		120	130	9	29	0.34	BDL	BDL	2	BDL	22	31	Nil	Nil
Hunza Spring	BWQ-46	BDL	7.50	360	198	24	15	120	65	43	20	0.09	0.03	BDL	0.3	BDL	44	BDL	Nil	Nil
Isberg	BWQ-47	BDL	7.62	335	184	32	12	130	100	29	10	0.29	BDL	BDL	4.2	BDL	3	7	Nil	Nil
Eco	BWQ-48	BDL	7.01	351	193	36	5	110	65	59	21	0.15	BDL	BDL	0.3	0.2	2	1	Nil	Nil
Al-Shalal	BWQ-49	BDL	7.39	451	249	48	19	200	225	2	16	0.20	BDL	BDL	3.3	1	BDL	6	Nil	Nil
Aqua Save	BWQ-50	BDL	7.15	397	218	56	5	160	20	92	3	0.12	0.04	BDL	2.1	BDL	7	0.2	Nil	Nil
Rise Water	BWQ-51	BDL	7.42	489	269	24	29	180	210	BDL	41	0.12	BDL	BDL	1.5	BDL	36	1	4.1	Nil
Legend	BWQ-52	BDL	7.35	418	230	32	13	135	45	83	26	0.31	0.03	BDL	4.4	3	5	BDL	Nil	Nil
Eman	BWQ-53	BDL	7.60	408	224	24	19	140	130	16	38	0.44	0.05	BDL	2.1	1	45	0.34	Nil	Nil
Selina	BWQ-54	BDL	7.18	285	157	24	12	110	30	37	9	0.12	0.03	BDL	0.3	0.2	49	BDL	Nil	Nil
Blu Water	BWQ-55	BDL	6.99	293	161	20	12	100	30	59	12	0.06	BDL	BDL	0.5	BDL	10	0.4	Nil	Nil
Taskeen	BWQ-56	BDL	6.79	745	410	20	41	220	45	87	57	0.17	BDL	BDL	2.9	7	124	BDL	Nil	Nil
Miracle	BWQ-57	BDL	7.20	423	233	28		140	80	80	34	0.43	BDL	BDL	5.4	1.5	37	BDL	Nil	Nil
Aktive	BWQ-58	BDL	7.35	251	138	36	0	90	30	52	18	0.04	BDL	BDL	1.4	0.2	16	BDL	Nil	Nil
Al-Massafi	BWQ-59	BDL	7.09	329	181	36	7	120	35	61	11	BDL	BDL	BDL	9.7	3.6	26	BDL	Nil	Nil
Aqua Nasa	BWQ-60	BDL	7.11	375	206	36	7	120	30	83	18	0.05	BDL	BDL	1.5	0.5	3	0.2	Nil	Nil
OClear	BWQ-61	BDL	6.91	479	263	40	0	100	75	69	54	0.17	0.05	BDL	1.9	4	48	BDL	Nil	Nil
Hydro Clear	BWQ-62	BDL	6.89	278	153	16	9	75	65	45	31	0.32	BDL	BDL	0.3	1	BDL	BDL	Nil	Nil
Marjan	BWQ-63	BDL	6.55	543	299	20	17	120	45	131	64	0.11	0.03	BDL	5	3	BDL	BDL	Nil	Nil
Water Plus	BWQ-64	BDL	6.85	260	143	20	12	100	35	59	16	0.05	BDL	BDL	2	2	BDL	BDL	Nil	Nil
Zindagi plus	BWQ-65	BDL	6.68	285	157	Nil	15	60	70	34	35	0.12	BDL	BDL	1	1	7	BDL	Nil	Nil
Orion	BWQ-66	BDL	6.99	310	171	16	17	110	45	61	20	0.24	BDL	BDL	4.5	2	7	BDL	Nil	Nil
Blue Gold	BWQ-67	BDL	7.20	325	179	28	10	110	35	65	10	0.29	0.10	BDL	6.4	0.2	5	BDL	Nil	Nil

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<b>ORO</b>	BWQ-68	BDL	7.09	445	245	0	15	60	50	89	<b>63</b>	0.11	0.03	BDL	1.6	1	4	BDL	Nil	Nil
<b>Pineo</b>	BWQ-69	BDL	7.80	454	250	60	10	190	160	36	18	0.26	0.05	BDL	5.2	BDL	4	<b>13</b>	Nil	Nil
<b>Aspen Aqua</b>	BWQ-70	BDL	7.43	412	227	40	12	150	90	72	27	0.19	0.03	BDL	0.6	BDL	3	1	<b>6.3</b>	Nil
<b>Moya</b>	BWQ-71	BDL	6.64	355	195	40	15	160	140	12	13	0.30	BDL	BDL	1.2	3	9	BDL	Nil	Nil
<b>Khyber Aqua</b>	BWQ-72	BDL	6.90	401	221	40	22	190	165	10	17	0.13	0.07	BDL	1.7	4	15	BDL	Nil	Nil
<b>Aqua Sure</b>	BWQ-73	BDL	7.17	463	255	40	34	240	210	20	17	0.28	0.04	BDL	1.4	BDL	15	0.5	<b>1.0</b>	Nil
<b>Natural Aqwah</b>	BWQ-74	BDL	7.20	258	142	28	20	120	115	5	10	0.19	BDL	BDL	1.1	2	5	BDL	Nil	Nil
<b>Al- Saudia</b>	BWQ-75	BDL	6.50	401	221	30	22	165	95	89	30	BDL	BDL	BDL	0.4	BDL	6	BDL	Nil	Nil

NGVS =No Guideline Value Set

BDL = Below Detection Limits