



QUARTERLY REPORT BOTTLED WATER QUALITY

(October-December, 2015)



PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES

Ministry of Science & Technology

Khyaban-e-johar, H-8/1, Islamabad.

www.pcrwr.gov.pk

October-December, 2015

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



SUMMARY

The poor quality of drinking water has forced a large cross-section of citizens to buy bottled water. 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 through Ministry of Science and Technology has designated the task for quarterly monitoring of bottled/mineral water brands to PCRWR. According to the monitoring report for the quarter October-December, 2015 following is the brief overview of the findings.

Quarterly Monitoring of Bottled/Mineral Water (October-December, 2015)

No. of Brands Collected	100	
No. of Cities Targeted	14 (Islamabad, Rawalpindi, Peshawar, D.I.Khan, Lahore, Faisalabad, Sargodha, Bahawalpur Sialkot, Multan, Tandojam, Karachi, Quetta, and Gujranwala)	
No. of Overall Safe Brands	87	
Overall Unsafe Brands (13)	Brand Name	Manufacturer(s)
	New Nation	Ramez Enterprises: 9-KM, GT Road, Rachna Town, Shahdara Lahore
	Mazan Pure Life	Maaza Fresh Foods Jaa-Af License # D-0.2-1836
	Premier	Zafir Industries:19-Km,Near Highnoon Laboratories Multan Road Lahore.
	Al-Haider	Gulshan-e- Iqbal Park China Chowk, Sialkot Pakistan
	Eau Water	Al-Ghafoor Beverages: Ist Floor,MDA Arcade Kalma Chowk Multan.
	Eden Pure Water	Sadaf Canal Bahawalpur Road Multan. www.edenpakistan.com Help Line 03000-332-332
	Deep Pure Water	S.B Foods&Beverages Zakriya Town Bosan Road Multan
	Oriel	Wasco International (Pvt) Ltd. Karachi Oriewesco@gmail.com 061-6007773
	Jumeirah	A product of Karachi Beverages.
	Al-SAHAR	Al-Safrrat International: Plot#C-68,Site Super Highway Industrial Area Karachi
	NG Fresh Water	Nadir Hassan Hyderabad Pakistan 0313-2105390, 0300-2719256
	Aqua National	Milli Brothres 8-km G.T Road Shahdara Lahore
WATER ICON	National Police Foundation Street#2,House 476,O-9 Islamabad Water_icon@yahoo.com	
Chemically Safe Brands	90	
Chemically Unsafe Brands	<p>Arsenic: 06 (New Nation, Premier, Eau Water, Deep Pure Water, Oriel, Aqua National)</p> <p>Sodium: 04 (New Nation, Mazan Pure Life, Jumeirah, NG Fresh Water)</p> <p>Potassium: 01 (Al-Haider)</p>	
No. of Microbiologically Safe Brands	97	
Microbiologically Unsafe Brands	03 (Eden Pure Water, Al-Sahar, Water Icon)	



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	100	
No. of Cities Targeted	14 Islamabad, Rawalpindi, Peshawar, D.I.Khan, Lahore, Faisalabad, Sargodha, Bahawalpur Sialkot, Multan, Tandojam, Karachi, Quetta, and Gujranwala)	
Composition of Sampling Team	One Research Officer and Two Laboratory Assistants	
Sampling Procedure	Samples of One hundred commercially available brands of mineral/bottled water were collected from local market of fourteen cities of Pakistan. These samples were collected by the senior staff members of National Water Quality Laboratory (NWQL) of PCRWR Head Office and Regional/district Water Quality Laboratories of PCRWR during October-December, 2015. A set of four bottles of each brand was collected and sealed on site. Identification codes were 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

Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Safi	BWH-01	D.I.Khan	13/09/2015	08/2016	1.5 Liter	Chashma Mineral Water Near Grid Station D.I.Khan	Chashma Mineral Water Near Grid Station D.I.Khan
New Nation	BWH-02	Faisalabad	13/10/2015	12/2016	0.6 Liter	Baba pan shop GTS chowk Faisalabad	Ramez Enterprises: 9-KM, GT Road, Rachna Town, Shahdara Lahore
Fresh Natural	BWH-03	Faisalabad	13/10/2015	-	0.6 Liter	Kohistan bus stand GTS chowk Faisalabad	Sourced and Bottled at: 0321-6607238
Mazan Pure Life	BWH-04	Faisalabad	13/10/2015	09/2015	0.6 Liter	Raja hotel GTS chowk Faisalabad	Maza Fresh Foods Jaa-Af Licence # D-0.2-1836
Zim	BWH-05	Faisalabad	13/10/2015	06/2016	0.5 Liter	Anwar chan pan shop shadman road tariqabad Faisalabad	Zimindar Group of industries New Punjab flour Mills G.T Road Ferozwala Shahdara
ATLANTIS	BWH-06	Faisalabad	13/10/2015	11/2015	0.5 Liter	Bao ge pan shop mansoorabad jumra road Faisalabad	Orbit Food & Beverages, Plot # .57, St # 17, Dastageer Colony, West Canal Road, Faisalabad
Murree Sparkletts	BWH-07	Sargodha	07/10/2015	-	0.5 Liter	Aziz ahmed. Goal chowk Sargodha. 03007075156	(A Division of Murree Brewery Co) E-mail: tops@comsats.net.pk
Crystal	BWH-08	Sargodha	07/10/2015	-	0.6 Liter	Makkah general store opposite 47 adda Sargodha.. 03413822332	Crystal Group: Plot #24, Old Civil Lines, mela Mandi Road, Sargodha.
Khush Aab	BWH-09	Sargodha	07/10/2015	-	0.6 Liter	Bismillah general store 47 adda Sargodha. 03006014211	A project of University of Sargodha www.khushaab.com
Hi-Fresh	BWH-10	Sargodha	07/10/2015	10/2016	0.6 Liter	Mr., Abid GBS Sargodha. 03006060114	NBFC Pakistan: Madina Farms, 84 N-B, Sargodha
Premier	BWH-11	Sargodha	07/10/2015	12/2016	0.6 Liter	Chacha Anwar general store 47 adda Sargodha. 03006022599	Zafir Industries:19-Km, Near Highnoon Laboratories Multan Road Lahore
IS berg	BWH-12	Sialkot	22/10/2015	10/2016	0.6 Liter	Premier Water Purifying Company, Dhabola Roras Road, Sialkot	Premier Water Purifying Company, Dhabola Roras Road, Sialkot
Vina	BWH-13	Sialkot	22/10/2015	10/2016	0.6 Liter	Al-Sultan Beverages industries, Chaprar Road Gul Bahar Kalan Sialkot	Al-Sultan Beverages industries, Chaprar Road Gul Bahar Kalan Sialkot
Aqua Save	BWH-14	Sialkot	22/10/2015	10/2016	0.6 Liter	SFS Mineral Water Company, Wazirabad Road, Jalianwala Ugoki, Sialkot.	SFS Mineral Water Company, Wazirabad Road, Jalianwala Ugoki, Sialkot.
ECO	BWH-15	Sialkot	22/10/2015	12/2016	0.6 Liter	Product of J&J Foods and Beverages Roras Road Naul Chowk Sialkot 51310 Pakistan	Product of J&J Foods and Beverages Roras Road Naul Chowk Sialkot 51310 Pakistan
Ice Well	BWH-16	Sialkot	22/10/2015	-	0.6 Liter	Bismillah tea stall near Jinnah stadium skt.03338639486	Quaint Beverages Industries Baghwal Awan P.o. Khas Sialkot

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Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Al-Haider	BWH-17	Sialkot	22/10/2015	04/2016	0.6 Liter	Hafiz G pan shop imam sb road Sialkot. 03338684457	Gulshan-e- Iqbal Park China Chowk, Sialkot Pakistan
Jers	BWH-18	Sialkot	22/10/2015	-	0.6 Liter	Lucky pan shop shahpura chowk Sialkot. 03007103736	Jers Traders. Opp. Bismillah CNG Gujranwala Road, Daska
Athar	BWH-19	Sialkot	22/10/2015	-	0.6 Liter	Haji pur Athar water sale point .03216108310	AZO Enterprises: Seokay,k 14-KM, Sialkot Aimanabad Road, Sialkot
Bake Master	BWH-20	Sialkot	22/10/2015	10/2016	0.6 Liter	Bake master bakery circular road Sialkot. 03456555874	0342-6661666 0333-8656666
Coral	BWH-21	Sialkot	22/10/2015	04/2016	0.6 Liter	Combine brother traders adda kholana Sialkot	Bottled By: Combine Brothers Traders Adda Sialkot www.coralwater.com.pk 0333-8606644
Springley	BWH-22	Quetta	19/10/2015	01/2017	1.5 Liter	Lateef medical store. 081-2838148	Qarshi (Pvt) Ltd, Plot No.56/1-4, Phase I & II, Hattar Industrial Estate
Aqua Classic	BWH-23	Quetta	19/10/2015	-	1.5 Liter	Agha jan medical store .08-12827988	S.A. Enterprises: Browri Road, Quetta.
Nestle	BWH-24	Quetta	19/10/2015	03/2017	1.5 Liter	Agha jan medical store .08-12827988	Bottled by Nestle Pakistan Ltd. 308, Upper Mall Lahore
Aqua Hygienic	BWH-25	Quetta	19/10/2015	-	1.5 Liter	New Quetta zarghoon hotel 0301 6380200	Marketed by Zauhras Plot#12,Street#12,Faisal Town Brewery Road Quetta
Aquafina	BWH-26	Quetta	19/10/2015	08/2016	1.5 Liter	Shoaib medical store. 081-2835962	Survey#212,Deh konkar,Distt Malir Karachi
Pure It	BWH-27	Gujranwala	20/11/2015	08/2016	0.6 Liter	Jamshed Cold Corner G T Road Sialkot bypass Gujranwala	E-mail: info@pureitwater.pk
Aquafine	BWH-28	Gujranwala	20/11/2015	-	0.5 Liter	Amir Cold Corner G T Road alam chowk	E-mail: aquafinepk@gmail.com
Aqua Heaven	BWH-29	Gujranwala	20/11/2015	-	0.6 Liter	Almadni Cold Corner G T Road Pindi bypass	Umair Food Product: Kalara Kalan Gujrat
NU Water	BWH-30	Gujranwala	20/11/2015	09/2016	0.6 Liter	Moon Bashir Cold Corner G T Road Pindi bypass	Pk Beverages: 16-Km,Hafizabad Road G.T Road Gujranwala
AS Pure Life	BWH-31	Gujranwala	20/11/2015	-	0.5 Liter	Orangzaib Cold Corner G T Road Alam chowk	HQH Food Company Sialkot Road Nandi Pur Gujranwala
NAHLA	BWH-32	Lahore	01/11/2015	06/2016	0.5 Liter	Abdullah general store dhaki chowk Gujrat circular road.	Enviropak Services and Technologies Shahzad Street Link Jinnah Road Gujrat
Classic	BWH-33	Multan	30/10/2015	06/2016	1.5 Liter	Paramount general store dera adda chowk Multan 03457165947	Classic Consumables Plot#74-B,Industrial Estate Phase II Multan
Eau Water	BWH-34	Multan	29/10/2015	04/2016	1.5 Liter	One shop drink corner bolan road Multan 03023753581	Al-Ghafoor Beverages: Ist Floor,MDA Arcade Kalma Chowk Multan

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Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Eden Pure Water	BWH-35	Multan	30/10/2015	11/2016	0.6 Liter	Awais drink corner qasim pur colony Bahawalpur pur road Multan 03228878007	Sadaf Canal Bahawalpur Road Multan www.edenpakistan.com Help Line 03000-332-332
Deep Pure Water	BWH-36	Multan	30/10/2015	-	0.5 Liter	Mushtaq drink corner Vehari chowk Multan. 03026326572	S.B Foods&Beverages Zakriya Town Bosan Road Multan
Aqua 7	BWH-37	Multan	29/10/2015	04/2016	0.6 Liter	Sork super store bolan road Multan. 03338147371	Pulse International: 4,H.T.E.Z Old Budla Road Multan
Pure Fresh	BWH-38	Multan	30/10/2015	-	0.5 Liter	Ali Bilal drink corner Vehari chowk Multan. 03146220547	NLC bypass Main Khanewal Road Multan
Oriel	BWH-39	Multan	29/10/2015	-	0.5 Liter	Fatima drink corner nashter road Multan 03058051989	Wasco International (Pvt) Ltd Oriellwesco@gmail.com 061-6007773
Refresh	BWH-40	Islamabad	20/09/2015	09/2016	1.5 Liter	A Project Of R.A Traders Ghouri Garden Islamabad	A Project Of R.A Traders Ghouri Garden Islamabad
Freshley	BWH-41	Bahawalpur	11/11/2015	05/2016	1.5 Liter	Life medical store Bahawalpur opp BVH. 062-2501115	Madina Water Bottling Plant:Arifwala Road Bahawalpur
Blu	BWH-42	Bahawalpur	11/11/2015	10/2016	1.5 Liter	Arfat sherian and backers commercial area Bahawalpur. 03313384981	Al-Hilal Industries(Pvt)Ltd.Sultan Nagar Vehari Road Multan
ECO FINA	BWH-43	Bahawalpur	11/11/2015	09/2016	0.6 Liter	Moon medical store hussaini chowk Bahawalpur. 03006854575	Akber Colony Main Johar Town Road Bahawalpur
Pine'o	BWH-44	Bahawalpur	11/11/2015	10/2016	0.6 Liter	Al- khair pharmacy opp BVH Bahawalpur	Gysing Pak PSIE,Bahawalpur gysing@live.com
Aspen aqua	BWH-45	Bahawalpur	11/11/2015	10/2016	0.6 Liter	Life medical store Bahawalpur opp BVH. 062-2501115	Gysing pak DDR-1,PSIE Bahawalpur Info@gysing.com
NN Water	BWH-46	Bahawalpur	11/11/2015	09/2016	0.6 Liter	Shan sweets,backry and milk shop railway station chowk Bahawalpur	NN Premium Water Company Khanewal
Kinley	BWH-47	Bahawalpur	11/11/2015	08/2016	0.5 Liter	Shan sweets,backry and milk shop railway station chowk Bahawalpur	Coca Cola Beverages Pakistan Ltd. S-E,II Gulberg III,Lahore
Al-Habib	BWH-48	Karachi	12/11/2015	12/2016	0.6 Liter	Madina shop L-19 B sector shah Latif town	E-10,Al-Azam Square,F.B Area Block-1 Karachi
EVO	BWH-49	Karachi	11/11/2015	12/2016	0.6 Liter	Bismillah general store saphora Goth	Qalm Khani Traders
Zindagi	BWH-50	Karachi	12/11/2015	-	0.6 Liter	Main Gabool chorangi new pak sweet backer	A product of Zindagi International.
Orion	BWH-51	Karachi	12/11/2015	12/2017	0.6 Liter	Farhan juices center main market phalwan Goth	Orion Foods:Site#E-1,Suite No.02 Defence View Phase II Karachi

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Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Dam	BWH-52	Karachi	11/11/2015	-	0.6 Liter	Al darweesh shop Drigh road karachi	Manufactures DAM Waters: 47/1, Siddiqabad Model Colony, Karachi
Droplet	BWH-53	Karachi	12/11/2015	-	0.6 Liter	Shayan shah faisal colony no 3 karachi	Makkah International: Block 1-A, Gulistan-E-Johar Karachi
Aab-E-Sehat	BWH-54	Karachi	11/11/2015	-	0.6 Liter	Sawabi shop shah faisal colony karachi	Rafique Raza & Brothers: S.I.T.E Karachi 0301-3247200
Jumeirah	BWH-55	Karachi	11/11/2015	-	0.6 Liter	Al Ameen general store Gulshan – e-Johar mor b 19 karachi	A product of Karachi Beverages.
Crystal Maya	BWH-56	Karachi	11/11/2015	-	0.6 Liter	Aleem general Gulshan – e- Johar B 19 karachi	Off:B-221,226,Hub Balouchistan
Askari	BWH-57	Karachi	12/11/2015	-	0.6 Liter	Five star shop block -2 Gulistan-e-johar Karachi	ASKARI International 03102229966 03002017953
NASH	BWH-58	Karachi	12/11/2015	-	1.5 Liter	Datari general store saphora chorangi Karachi	Bottled By NASH Enterprises Block 13-D, Gulshan –e-Iqbal Karachi
Sky Plus	BWH-59	Karachi	11/11/2015	-	1.5 Liter	Abdul sattar Karachi store B-block Gulshan – e-Johar Karachi	E-Mail: skyplusplant@yahoo.com 0300-9297900
AI-SAHAR	BWH-60	Karachi	11/11/2015	-	0.6 Liter	Shahid shop , bkoock -2 gulista-e-Johar Karachi	Al-Safrrat International: Plot#C-68, Site Super Highway Industrial Area Karachi
Vinh	BWH-61	Karachi	12/11/2015	-	0.6 Liter	Ideal sweet backer block 2 Gulshan- e-Johar Karachi	A Product Of AJ Pearl: Bankers Lodge, Block J, North Nazimabad Karachi
MR	BWH-62	Karachi	11/11/2015	03/2017	0.6 Liter	M.yousaf general store C center shah faisal Karachi	Reverse Osmosis Product B-138, Block-6, Gulshan-e-Iqbal Karachi 021-34960078
Livon	BWH-63	Karachi	11/11/2015	-	0.6 Liter	Block 4 Gulshan - e- Johar university road Karachi	Presented by Hans Traders Licence No. CM/L-2448/2010 @
NG Fresh Water	BWH-64	Tando Jam	18/11/2015	-	0.6 Liter	Station road Tando jam	Nadir Hassan Hyderabad Pakistan 0313-2105390, 0300-2719256
Noble	BWH-65	Tando Jam	17/11/2015	12/2016	0.6 Liter	Liaqat colony HYD 0300-3032505	Pak Life, Tower Market, Hakeem Habibullah Road, Hyderabad
Pearl	BWH-66	Tando Jam	17/11/2015	-	0.6 Liter	Near toll plaza Jamshoro 0300-8372296	Pure Mineral Water: Plot No. 144/68, KM Super High near Toll Plaza, Jamshoro
Pak Life	BWH-67	Tando Jam	17/11/2015	12/2017	0.6 Liter	Liaqat colony HYD 0300-3032505	Ziyada Peo Ziyada Geo, Tower Market, Hakeem Habibullah Raod, Hyderabad
AFRA	BWH-68	Tando Jam	17/11/2015	12/2017	0.6 Liter	Liaqat colony HYD 0300-3032505	Premium Drinking Water: Tower Market, Hakeem Habibullah Raod, Hyderabad
Onega	BWH-69	Islamabad	24/11/2015	-	0.6 Liter	Plot No.195, Street # 2, Sector I-9/3, Industrial Area, Islamabad	TZK Enterprises Plot No.195, Street # 2, Sector I-9/3, Industrial Area, Islamabad

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Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Hydra	BWH-70	Islamabad	02/12/2015	-	1.5 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
Deosai	BWH-71	Islamabad	02/12/2015	12/2016	1.5 Liter	Margalla Foods & Beverages: Plot No.32, Khayaban-e-Johar, Industrial Area, I-9/2, Islamabad	Margalla Foods & Beverages: Plot No.32, Khayaban-e-Johar, Industrial Area, I-9/2, Islamabad
Deep Spring	BWH-72	Islamabad	02/12/2015	-	1.5 Liter	A Product of BNK(Pvt)Ltd Plot#226,St#7, Sector 1-9/2,Industrial Area Islamabad	A Product of BNK(Pvt)Ltd Plot#226,St#7, Sector 1-9/2,Industrial Area Islamabad
Valley	BWH-73	Islamabad	03/12/2015	-	1.5 Liter	Bottled at: Plot#277,St#1, Sector I-9/3,Industrial Area Islamabad	Bottled at: Plot#277,St#1, Sector I-9/3,Industrial Area Islamabad
Venora	BWH-74	Islamabad	03/12/2015	-	1.5 Liter	Plot#238,Sector I-9/3 Islamabad	Plot#238,Sector I-9/3 Islamabad
Water Plus	BWH-75	Islamabad	03/12/2015	-	0.5 Liter	Bottled by: Advanced Business Solutions Islamabad Plot # 235,St # 6,I-9/2, Industrial Area Islamabad	Bottled by: Advanced Business Solutions Islamabad Plot # 235,St # 6,I-9/2, Industrial Area Islamabad
Nectar	BWH-76	Islamabad	03/12/2015	-	0.5 Liter	Islamabad Express Near Paradise Complex Kuri Road Islamabad	Islamabad Express Near Paradise Complex Kuri Road Islamabad
Mehr	BWH-77	Rawalpindi	03/12/2015	12/2016	0.5 Liter	Peer Mehr ali Shah Arid Agriculture University Rawalpindi	Peer Mehr ali Shah Arid Agriculture University Rawalpindi
Infinity	BWH-78	Islamabad	02/12/2015	11/2016	1.5 Liter	Musaffa Drop (Pvt) Ltd: Japan Road, Sihala Khurd Islamabad	Musaffa Drop (Pvt) Ltd: Japan Road, Sihala Khurd Islamabad
Pacific Pure	BWH79	Lahore	25/11/2015	-	1.5 Liter	Express mart Walton road LHR 03314471724	Pacific Water Engineer G.T Road Lahore
Dewan Water Express	BWH-80	Lahore	25/11/2015	10/2016	1.5 Liter	Masha Allah whole sale dealer sher shah colony LHR 0322-8468494	Dewan Foods:168,Shah Jamal Lahore www.dewanfoods.com
Aab-e-Rahat	BWH-81	Lahore	25/11/2015	11/2016	0.6 Liter	Bilal medical store near general hospital ferozpur road 0300-4343637	E-mail: aabe_rahat@yahoo.com 042-37530111
Jami Water	BWH-82	Lahore	23/11/2015	11/2016	0.6 Liter	Jami Water Services: KhoKhar Chowk, College Road Township Lahore	Jami Water Services: KhoKhar Chowk, College Road Township Lahore
Doce	BWH-83	Lahore	24/11/2015	11/2016	0.6 Liter	Shokat khanam road johar town LHR 03154007052	46-M,Quaid-e-Azam Industries Estate Kot Lakhpat Lahore
Pak Natural	BWH-84	Lahore	25/11/2015	12/2016	0.6 Liter	Al khair sweet bakars D block sher shah colony LHR 0323-9113193	564-Q Phase II,M.A Johar Town Lahore

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Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Aqua Dew	BWH-85	Lahore	24/11/2015	05/2016	0.6 Liter	Masha Allah pan shop near Niazi adda band road LHR 0308-7347688	Mustafa&Hamza Foods:N,Block Sabzazar Lahore
NEC	BWH-86	Lahore	25/11/2015	08/2016	0.6 Liter	Gama mart sher shah colony block A 0333-1879334	119-H,Feroz Park Lahore
KLINZ Pure Water	BWH-87	Lahore	24/11/2015	04/2016	0.6 Liter	KLINZ Food(Pvt)Ltd 60-L,Model Town Lahore 0333-4885665	KLINZ Food(Pvt)Ltd 60-L,Model Town Lahore
Aqua GEN	BWH-88	Lahore	24/11/2015	11/2016	0.6 Liter	Ahmed khan pan shop opp cpu shaukat khan chowk LHR 0324-8421812	Aqua Gen Services:36-Civic Centre, Liaquat Chowk Sabzazar, Scheme Lahore
Butt Water	BWH-89	Lahore	25/11/2015	10/2016	0.5 Liter	Butt sweet & baker near wapda town gila chakkar johar town LHR 03000453517	Butt Sweets Bakers www.buttsweets.com
Aqua Safe	BWH-90	Lahore	23/11/2015	08/2016	0.6 Liter	Muhammad Amir zamindar pan shop railway station LHR 0335-6757314	Aqua Safe Pakistan Pvt. Ltd. 98-Mcled Road Lahore.
SUFI	BWH-91	Lahore	23/11/2015	10/2017	0.6 Liter	Waheed pan shop pindi bus stand lari adda LHR 03004169616	Haddayat Foods Stuffs Industries(Pvt)Ltd.1-B Garden Block, Garden Town Lahore
Deep Rock	BWH-92	Lahore	25/11/2015	10/2016	0.5 Liter	Akram khan brothers & pan shop ferozpur road 0321-8821560	Deep Rock Services: Main Ghazi Road Defence www.deeprocks.com.pk
Gourmet	BWH-93	Lahore	23/11/2015	04/2016	0.6 Liter	Gourmet bakers link Opp metro model town LHR 0323-4917062	Gourmet foods: Gate #1,Plot#1-5,Sunder Industrial Estate Raiwind Sunder Road Lahore
Aqua National	BWH-94	Lahore	23/11/2015	12/2016	0.6 Liter	Mohsin cold corner lari adda pindi bas stand LHR 0323-4851350	Milli Brothres 8-km G.T Road Shahdara Lahore
KRISCO	BWH-95	Lahore	25/11/2015	06/2016	0.5 Liter	Krisco sweet & baker ferozpur road 0335-8444368	10-Km,Defense Road Lahore www.krisco.com.pk
Aquatic Fresh	BWH-96	Peshawar	01/12/2015	10/2016	0.6 Liter	Plot No 1-C Industrial Estate Hayatabad, Peshawar-0314-9023431	Royal Food Industries Plot-1/C Industrial Estate Jamrud Road Peshawar
Moya Mineral Water	BWH-97	Peshawar	01/12/2015	08/2017	0.6 Liter	Al-Saudia Enterprises 580/B Main Gulberg Peshawar Cantt	Al-Saudia Enterprises 580/B Main Gulberg Peshawar Cantt
Aqua Splash	BWH-98	Peshawar	01/12/2015	-	0.6 Liter	192-c- Industrial Estate Hayatabad, Peshawar	Euro International) 192-A, Industrial Estate Hayatabad, Peshawar
NEBRASA KA	BWH-99	Peshawar	01/12/2015	08/2016	0.6 Liter	12-c1 industrial Estate Hayatabad Peshawar- 0302-5259260	12-C Industrial Estate Hayatabad, Peshawar
WATER ICON	BWH-100	Islamabad	07/12/2015	-	1.5 Liter	National Police Foundation Street#2,House 476,O-9 Islamabad Water_icon@yahoo.com	National Police Foundation Street#2,House 476,O-9 Islamabad Water_icon@yahoo.com

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



WATER QUALITY PARAMETERS AND METHODS USED FOR ANALYSIS

Sr. #	PARAMETERS	ANALYTICAL METHOD
1.	Alkalinity (mg/l as CaCO ₃)	2320, Standard method (2012) APHA
2.	Arsenic (ppb)	AAS Vario 6, Analytik Jena AG
3.	Bicarbonate	2320, Standard method (2012) APHA
4.	Calcium (mg/l)	3500-Ca-D, Standard Method (2012) APHA
5.	Carbonate (mg/l)	2320, Standard method (2012)
6.	Chloride (mg/l)	Titration (Silver Nitrate), Standard Method (2012) APHA
7.	Color (TCU)	Sensory Test
8.	Conductivity (µS/cm)	E.C meter, Hach-44600-00, USA
9.	Hardness (mg/l)	EDTA Titration, Standard Method (2012) APHA
10.	Magnesium (mg/l)	2340-C, Standard Method (2012) APHA
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 (2012) APHA
20.	Turbidity (NTU)	Turbidity Meter, Lamotte, Model 2008, USA
21.	Fluoride (mg/l)	4500-F C. ion-Selective Electrode Method Standard method (2012) APHA
22.	Iron (mg/l)	FerroVer method (HACH Cat. 21057-69)
23.	Total Coliforms (MPN/100ml)	9221-B,C&D, Standard Methods (2012) APHA
24.	E. Coli (MPN/100ml)	9221-B,C&D, Standard Methods (2012) APHA

WATER QUALITY PERMISSIBLE LIMITS FOR BOTTLED WATER

Sr. #	Parameter	Units	Permissible Limits		
			WHO	IBWA	PSQCA
1.	Alkalinity	(mg/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
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

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Sr. #	Parameter	Units	Permissible Limits		
			WHO	IBWA	PSQCA
20.	Turbidity	(NTU)	5	NGVS	0.5
21.	Phosphate	(mg/l)	NGVS	NGVS	NGVS
22.	Arsenic	ppb	10	10	10
23.	Total Coliforms	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 : 10 parts per billion (ppb)

Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	New Nation	BWH-02	Lahore	ppb	21
2.	Premier	BWH-11	Lahore	ppb	18
3.	Eau Water	BWH-34	Multan	ppb	24
4.	Deep Pure Water	BWH-36	Multan	ppb	18
5.	Oriel	BWH-39	Multan	ppb	48
6.	Aqua National	BWH-94	Lahore	ppb	51

Sodium: Safe Limit : 50 parts per million (ppm)

Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	New Nation	BWH-02	Lahore	ppm	65
2.	Mazan Pure Life	BWH-04	Faisalabad	ppm	114
3.	Jumairah	BWH-55	Karachi	ppm	60
4.	NG Fresh Water	BWH-64	Hyderabad	ppm	86

Potassium : Safe Limit : 10 parts per million (ppm)

Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Al-Haider	BWH- 17	Sialkot	ppm	17

BACTERIOLOGICAL: (Total Coliforms , Fecal Coliforms & E Coli) (Safe Limit: 0/100ml)

Sr. No	Brand Name	Code	Results	
			Total Coliforms (MPN/100ml)	E. Coli (MPN/100ml)
1.	Eden Pure Water	BWH-35	10	Nil
2.	Al-Sahar	BWH-60	15	Nil
3.	Water Icon	BWH-100	12	Nil

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



PCRWR TESTING: SAFE BRANDS

Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
1.	Safi	BWH-01	Safe	Safe
2.	Fresh Natural	BWH-03	Safe	Safe
3.	Zim	BWH-05	Safe	Safe
4.	ATLANTIS	BWH-06	Safe	Safe
5.	Murree Sparkletts	BWH-07	Safe	Safe
6.	Crystal	BWH-08	Safe	Safe
7.	Khush Aab	BWH-09	Safe	Safe
8.	Hi-Fresh	BWH-10	Safe	Safe
9.	IS berg	BWH-12	Safe	Safe
10.	Vina	BWH-13	Safe	Safe
11.	Aqua Save	BWH-14	Safe	Safe
12.	ECO	BWH-15	Safe	Safe
13.	Ice Well	BWH-16	Safe	Safe
14.	Jers	BWH-18	Safe	Safe
15.	Athar	BWH-19	Safe	Safe
16.	Bake Master	BWH-20	Safe	Safe
17.	Coral	BWH-21	Safe	Safe
18.	Springley	BWH-22	Safe	Safe
19.	Aqua Classic	BWH-23	Safe	Safe
20.	Nestle	BWH-24	Safe	Safe
21.	Aqua Hygienic	BWH-25	Safe	Safe
22.	Aquafina	BWH-26	Safe	Safe
23.	Pure It	BWH-27	Safe	Safe
24.	Aquafine	BWH-28	Safe	Safe
25.	Aqua Heaven	BWH-29	Safe	Safe
26.	NU Water	BWH-30	Safe	Safe
27.	AS Pure Life	BWH-31	Safe	Safe
28.	NAHLA	BWH-32	Safe	Safe
29.	Classic	BWH-33	Safe	Safe
30.	Aqua 7	BWH-37	Safe	Safe
31.	Pure Fresh	BWH-38	Safe	Safe
32.	Refresh	BWH-40	Safe	Safe
33.	Freshley	BWH-41	Safe	Safe
34.	Blu	BWH-42	Safe	Safe
35.	ECO FINA	BWH-43	Safe	Safe
36.	Pine'o	BWH-44	Safe	Safe
37.	Aspen aqua	BWH-45	Safe	Safe
38.	NN Water	BWH-46	Safe	Safe
39.	Kinley	BWH-47	Safe	Safe
40.	Al-Habib	BWH-48	Safe	Safe
41.	EVO	BWH-49	Safe	Safe
42.	Zindagi	BWH-50	Safe	Safe
43.	Orion	BWH-51	Safe	Safe
44.	Dam	BWH-52	Safe	Safe
45.	Droplet	BWH-53	Safe	Safe

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
46.	Aab-E-Sehat	BWH-54	Safe	Safe
47.	Crystal Maya	BWH-56	Safe	Safe
48.	Askari	BWH-57	Safe	Safe
49.	NASH	BWH-58	Safe	Safe
50.	Sky Plus	BWH-59	Safe	Safe
51.	Vinh	BWH-61	Safe	Safe
52.	MR	BWH-62	Safe	Safe
53.	Livon	BWH-63	Safe	Safe
54.	Noble	BWH-65	Safe	Safe
55.	Pearl	BWH-66	Safe	Safe
56.	Pak Life	BWH-67	Safe	Safe
57.	AFRA	BWH-68	Safe	Safe
58.	Onega	BWH-69	Safe	Safe
59.	Hydra	BWH-70	Safe	Safe
60.	Deosai	BWH-71	Safe	Safe
61.	Deep Spring	BWH-72	Safe	Safe
62.	Valley	BWH-73	Safe	Safe
63.	Venora	BWH-74	Safe	Safe
64.	Water Plus	BWH-75	Safe	Safe
65.	Nectar	BWH-76	Safe	Safe
66.	Mehr	BWH-77	Safe	Safe
67.	Infinity	BWH-78	Safe	Safe
68.	Pacific Pure	BWH-79	Safe	Safe
69.	Dewan Water Express	BWH-80	Safe	Safe
70.	Aab-e-Rahat	BWH-81	Safe	Safe
71.	Jami Water	BWH-82	Safe	Safe
72.	Doce	BWH-83	Safe	Safe
73.	Pak Natural	BWH-84	Safe	Safe
74.	Aqua Dew	BWH-85	Safe	Safe
75.	NEC	BWH-86	Safe	Safe
76.	KLINZ Pure Water	BWH-87	Safe	Safe
77.	Aqua GEN	BWH-88	Safe	Safe
78.	Butt Water	BWH-89	Safe	Safe
79.	Aqua Safe	BWH-90	Safe	Safe
80.	SUFI	BWH-91	Safe	Safe
81.	Deep Rock	BWH-92	Safe	Safe
82.	Gourmet	BWH-93	Safe	Safe
83.	KRISCO	BWH-95	Safe	Safe
84.	Aquatic Fresh	BWH-96	Safe	Safe
85.	Moya Mineral Water	BWH-97	Safe	Safe
86.	Aqua Splash	BWH-98	Safe	Safe
87.	NEBRASAKA	BWH-99	Safe	Safe

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



PCRWR TESTING: UNSAFE BRANDS

Sr. No	Brand Name	Code	Address/ Manufacturer	Quality (Safe/Unsafe)	
				Chemical	Microbiological
1.	New Nation	BWH-02	Ramez Enterprises: 9-KM, GT Road, Rachna Town, Shahdara Lahore	Unsafe	Safe
2.	Mazan Pure Life	BWH-04	Maza Fresh Foods Jaa-Af License # D-0.2-1836	Unsafe	Safe
3.	Premier	BWH-11	Zafir Industries:19-Km,Near Highnoon Laboratories Multan Road Lahore.	Unsafe	Safe
4.	Al-Haider	BWH-17	Gulshan-e- Iqbal Park China Chowk, Sialkot Pakistan	Unsafe	Safe
5.	Eau Water	BWH-34	Al-Ghafoor Beverages: Ist Floor MDA Arcade Kalma Chowk Multan.	Unsafe	Safe
6.	Eden Pure Water	BWH-35	Sadaf Canal Bahawalpur Road Multan. www.edenpakistan.com Help Line 03000-332-332	Safe	Unsafe
7.	Deep Pure Water	BWH-36	S.B Foods&Beverages Zakriya Town Bosan Road Multan	Unsafe	Safe
8.	Oriel	BWH-39	Wasco International (Pvt) Ltd Orielwesco@gmail.com 061-6007773	Unsafe	Safe
9.	Jumeirah	BWH-55	A product of Karachi Beverages.	Unsafe	Safe
10.	AI-SAHAR	BWH-60	Al-Safrrat International: Plot#C-68,Site Super Highway Industrial Area Karachi	Safe	Unsafe
11.	NG Fresh Water	BWH-64	Nadir Hassan Hyderabad Pakistan 0313-2105390, 0300-2719256	Unsafe	Safe
12.	Aqua National	BWH-94	Milli Brothres 8-km G.T Road Shahdara Lahore	Unsafe	Safe
13.	WATER ICON	BWH-100	National Police Foundation Street#2,House 476,O-9 Islamabad Water_icon@yahoo.com	Safe	Unsafe

MARKET CONSISTENCY IN TWO NEIGHBORING QUARTERS

Sr. No	Consistent Brands	New Brands	Unavailable Brands
1.	Safi	Fresh Natural	Al-Hawa
2.	Nation	ATLANTIS(Faisalabad)	Vital Happy Life
3.	Mazan Pure Life	Aquafina	Aqua Smart
4.	Zim	Aqua Fine	Mary Gold
5.	Murree Sparkletts	NU Water	Super Natural
6.	Crystal	AS Pure Life	Rachna
7.	Khush Aab	Eau Water	Aqua Plus
8.	Hi-Fresh	Eden Pure Water	Well Care
9.	Premier	Deep Pure Water	Sawera
10.	Isberg	Refresh	Metro
11.	Vina	Freshley	Al-Shalal
12.	Aqua Save	Aspen Aqua	Rise
13.	ECO	NN Water	Every
14.	Ice Well	Kinley	Unique Water
15.	Al-Haider	Aab-e-Sehat	Vivian
16.	Jers	Jumeirah	Blessing
17.	Athar	Sky Plus	Oniex Water
18.	Bake Master	AI-SAHAR	Xenith
19.	Coral	Vinh	Drink Pure

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



20.	Springley	MR.	Aqua Pro
21.	Aqua Classic	Livon	Ice Cube
22.	Nestle	Onega	Pura Fin
23.	Aqua Hygienic	Pacific Pure	Ajwa
24.	Pure It	Dewan Water Express	Mashmoom Aqua
25.	Aqua Heaven	Jami Water	Days Pure
26.	NAHLA	Pak Natural	Aftab Qarshi
27.	Classic	NEC	Aqua Hygienic
28.	Aqua 7	KLINZ Pure Water	Natural
29.	Pure Fresh	Aqua Safe	Ziran
30.	Oriel	Deep Rock	Aquanza
31.	Blu	Moya Mineral Water	Doctor's Water
32.	ECO FINA		Pak Spring
33.	Pine'o		Cozy Water
34.	Al-Habib		Fazal-e-Haq
35.	EVO		Shah Jahani
36.	Zindagi		Al-Minhal
37.	Orion		Ripple
38.	DAM		ATLANTIS(Islamabad)
39.	Droplet		Al-Khair
40.	Crystal Maya		PIYAAS
41.	Askari		Leven
42.	NASH		Miracle
43.	NG Fresh Water		Queerish
44.	Noble		Jel
45.	Pearl		Aqua Arabia
46.	Pak Life		Defence
47.	AFRA		Aqua Blue Drop
48.	Hydra		Buxton
49.	Deosai		Paradise
50.	Deep Spring		Niamat
51.	Valley		
52.	Venora		
53.	Water Plus		
54.	Nectar		
55.	Mehr		
56.	Infinity		
57.	Aab-e-Rahat		
58.	Doce		
59.	Aqua Dew		
60.	Aqua GEN		
61.	Butt Water		
62.	SUFI		
63.	Gourmet		
64.	Aqua National		
65.	KRISCO		
66.	Aquatic Fresh		
67.	Aqua Splash		
68.	NEBRASAKA		
69.	Water ICON		



DISEASE POTENTIAL FROM CONTAMINATED BOTTLED WATER

Sr. No	Contaminant	Diseases Impacts
1.	Bacteriological Contamination	Cholera, Diarrhea, Dysentery, Hepatitis, Typhoid
2.	Arsenic	Cancer (lungs, bladder, skin, prostate, kidney, nose and liver), diabetes kidney diseases, hypertension, heart diseases, birth defects, black foot diseases.
3.	Sodium	Hypertension
4.	Potassium	Hyperkalimia

CONCLUSIONS

Sr. No	Item	Conclusion	
		No.	% age
1.	Total No. of Brands Collected	100	-
2.	Overall safe brands	87	87
3.	No. of overall unsafe brands	13	13
4.	No. of Chemically safe brands	90	90
5.	No. of Chemically unsafe brands	10	10
6.	No. of Microbiologically safe brands	97	97
7.	No. of Microbiologically unsafe brands	03	03
8.	No. of Consistent brands in Market	69	69
9.	No. of brands disappeared from market	50	50
10.	No. of new brands	31	31

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



Annexure-1

Chemical and Microbiological Quality of Bottled/Mineral Water Brands

Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	PO ₄	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
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	Total Coli forms 0/100 ml	E-Coli 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
Safi	BWH-01	BDL	6.95	343	189	24	24	160	130	20	26	0.08	BDL	BDL	1.8	0.8	35	0.5	Nil	Nil
New Nation	BWH-02	BDL	7.89	470	259	20	15	110	200	18	65	0.25	BDL	BDL	2.3	0.4	36	21	Nil	Nil
Fresh Natural	BWH-03	BDL	6.62	398	219	28	19	150	70	72	30	0.03	BDL	BDL	3.0	7	21	0.3	Nil	Nil
Mazan Pure Life	BWH-04	BDL	7.46	699	384	8	19	100	100	120	114	0.10	BDL	BDL	2.6	0.4	51	0.6	Nil	Nil
Zim	BWH-05	BDL	7.84	275	151	20	12	100	70	38	21	BDL	BDL	BDL	BDL	BDL	24	6	Nil	Nil
ATLANTIS	BWH-06	BDL	7.30	203	112	16	4	58	60	26	23	BDL	BDL	BDL	0.8	0.7	10	BDL	Nil	Nil
Murree Sparkletts	BWH-07	BDL	7.59	354	195	40	12	150	140	16	11	0.14	BDL	BDL	0.9	2.3	13	0.3	Nil	Nil
Crystal	BWH-08	BDL	7.16	415	228	18	11	90	70	80	50	BDL	BDL	BDL	0.7	3.3	5	1	Nil	Nil
Khush Aab	BWH-09	BDL	7.15	453	249	36	12	140	60	85	41	BDL	BDL	BDL	0.2	0.11	35	0.8	Nil	Nil
Hi-Fresh	BWH-10	BDL	7.23	238	131	8	17	90	70	24	22	BDL	BDL	BDL	BDL	0.9	28	BDL	Nil	Nil
Premier	BWH-11	BDL	7.25	391	215	24	10	100	140	20	48	0.11	BDL	BDL	1.5	BDL	40	18	Nil	Nil
IS berg	BWH-12	BDL	7.02	280	154	24	10	100	40	60	10	0.09	BDL	BDL	0.6	BDL	6	3	Nil	Nil
Vina	BWH-13	BDL	6.61	235	129	32	12	130	50	30	9	0.35	BDL	BDL	0.2	BDL	28	0.2	Nil	Nil
Aqua Save	BWH-14	BDL	6.98	574	316	80	12	250	35	140	11	0.03	BDL	BDL	0.4	0.2	27	BDL	Nil	Nil
ECO	BWH-15	BDL	6.89	375	206	32	15	140	60	62	28	0.04	BDL	BDL	0.5	BDL	40	1	Nil	Nil

The highlighted results indicate the concentration level beyond the PSQCA Bottled Water Standards.

October-December, 2015

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	PO ₄	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
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	Total Coli forms 0/100 ml	E-Coli 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	-	-
Ice Well	BWH-16	BDL	7.52	346	190	40	12	150	60	60	19	0.03	BDL	BDL	0.3	BDL	28	0.9	Nil	Nil
Al-Haider	BWH-17	BDL	7.42	229	126	22	6	80	40	48	9	BDL	BDL	BDL	17	BDL	13	BDL	Nil	Nil
Jers	BWH-18	BDL	7.45	385	212	40	15	160	50	74	20	0.03	BDL	BDL	0.5	BDL	34	1	Nil	Nil
Athar	BWH-19	BDL	7.65	464	255	40	16	165	220	18	37	0.18	BDL	BDL	3.8	0.3	6	0.9	Nil	Nil
Bake Master	BWH-20	BDL	7.13	316	174	36	12	140	50	60	13	0.06	BDL	BDL	0.7	BDL	27	0.6	Nil	Nil
Coral	BWH-21	BDL	7.07	369	203	40	12	150	55	72	15	0.20	BDL	BDL	BDL	0.15	36	BDL	Nil	Nil
Springley	BWH-22	BDL	7.58	525	289	80	12	250	220	20	21	0.24	BDL	BDL	1.2	2	18	0.6	Nil	Nil
Aqua Classic	BWH-23	BDL	7.85	360	198	40	12	150	60	72	17	0.10	BDL	BDL	0.8	0.1	29	BDL	Nil	Nil
Nestle	BWH-24	BDL	7.59	410	226	44	12	160	40	96	13	BDL	BDL	BDL	BDL	BDL	29	BDL	Nil	Nil
Aqua Hygienic	BWH-25	BDL	7.31	276	152	36	10	130	50	70	10	BDL	BDL	BDL	0.2	BDL	5	BDL	Nil	Nil
AquaFina	BWH-26	BDL	7.73	223	123	BDL	19	80	30	26	18	BDL	BDL	BDL	1.2	BDL	48	BDL	Nil	Nil
Pure It	BWH-27	BDL	7.15	360	198	32	21	165	30	72	12	0.05	BDL	BDL	0.3	BDL	24	0.5	Nil	Nil
Aquafine	BWH-28	BDL	7.26	903	497	80	34	340	300	96	50	0.29	BDL	BDL	10	0.2	25	0.8	Nil	Nil
Aqua Heaven	BWH-29	BDL	7.81	284	156	22	4	70	115	20	40	0.20	BDL	BDL	1.0	BDL	6	0.3	Nil	Nil
NU Water	BWH-30	BDL	7.51	303	167	30	12	125	50	48	20	BDL	BDL	BDL	0.2	BDL	36	3	Nil	Nil
AS Pure Life	BWH-31	BDL	7.55	278	153	20	12	100	65	38	25	BDL	BDL	BDL	0.5	BDL	21	4	Nil	Nil
NAHLA	BWH-32	BDL	7.62	337	185	20	17	120	90	36	33	0.13	BDL	BDL	0.4	BDL	45	BDL	Nil	Nil
Classic	BWH-33	BDL	7.48	414	228	36	7	120	90	60	40	BDL	BDL	BDL	3.6	BDL	37	3	Nil	Nil
Eau Water	BWH-34	BDL	7.48	349	192	24	17	130	80	50	26	BDL	BDL	BDL	0.3	BDL	22	24	Nil	Nil
Eden Pure Water	BWH-35	BDL	7.86	378	208	52	12	180	50	96	9	BDL	BDL	BDL	0.4	BDL	15	3	10	Nil

The highlighted results indicate the concentration level beyond the PSQCA Bottled Water Standards.

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Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	PO ₄	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
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	Total Coli forms 0/100 ml	E-Coli 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	-	-
Deep Pure Water	BWH-36	BDL	7.35	445	245	44	18	150	160	42	26	BDL	BDL	BDL	2.6	0.2	36	18	Nil	Nil
Aqua 7	BWH-37	BDL	7.04	426	234	44	19	190	40	96	15	BDL	BDL	BDL	1.0	0.2	26	1	Nil	Nil
Pure Fresh	BWH-38	BDL	7.49	445	245	40	18	175	60	74	24	BDL	BDL	BDL	0.6	BDL	42	2	Nil	Nil
Oriel	BWH-39	BDL	7.52	336	185	40	12	150	130	20	15	0.11	BDL	BDL	2.6	BDL	26	48	Nil	Nil
Refresh	BWH-40	BDL	6.60	324	178	40	10	140	50	72	9	BDL	BDL	BDL	1.3	0.2	19	BDL	Nil	Nil
Freshley	BWH-41	BDL	7.52	352	194	44	5	130	40	74	13	BDL	BDL	BDL	0.5	0.2	17	0.9	Nil	Nil
Blu	BWH-42	BDL	7.48	273	150	25	14	120	40	60	13	BDL	BDL	BDL	0.5	BDL	23	0.4	Nil	Nil
ECO FINA	BWH-43	BDL	6.80	311	171	32	10	120	45	72	21	BDL	BDL	BDL	0.5	0.3	12	0.3	Nil	Nil
Pine'o	BWH-44	BDL	7.35	385	212	40	12	150	65	72	21	BDL	BDL	BDL	0.9	0.2	24	3	Nil	Nil
Aspen aqua	BWH-45	BDL	7.30	391	215	40	15	160	75	74	22	BDL	BDL	BDL	1.0	0.2	24	2	Nil	Nil
NN Water	BWH-46	BDL	7.35	408	224	40	12	150	70	80	34	BDL	BDL	BDL	0.5	0.2	21	0.9	Nil	Nil
Kinley	BWH-47	BDL	7.34	510	281	50	13	180	70	22	13	BDL	BDL	BDL	2.5	0.2	34	0.8	Nil	Nil
Al-Habib	BWH-48	BDL	7.43	460	253	40	12	150	190	64	40	0.40	BDL	BDL	2.2	BDL	37	0.9	Nil	Nil
EVO	BWH-49	BDL	7.41	302	166	20	10	90	80	25	27	0.10	BDL	BDL	2.2	0.2	42	1	Nil	Nil
Zindagi	BWH-50	BDL	7.60	357	196	30	9	110	65	48	23	0.06	BDL	BDL	1.8	0.2	17	0.8	Nil	Nil
Orion	BWH-51	BDL	7.38	460	253	20	19	130	60	82	48	0.21	BDL	BDL	4.9	0.2	49	2	Nil	Nil
Dam	BWH-52	BDL	7.33	383	211	60	7	180	75	65	9	0.06	BDL	BDL	BDL	1	34	BDL	Nil	Nil
Droplet	BWH-53	BDL	7.35	271	149	32	15	140	75	48	11	0.23	BDL	BDL	BDL	0.2	15	0.2	Nil	Nil
Aab-E-Sehat	BWH-54	BDL	6.90	279	153	16	10	180	40	56	16	0.04	BDL	BDL	10	0.5	16	0.2	Nil	Nil
Jumeirah	BWH-55	BDL	7.70	604	332	40	19	180	130	105	60	0.27	BDL	BDL	5.7	0.3	16	2	Nil	Nil

The highlighted results indicate the concentration level beyond the PSQCA Bottled Water Standards.

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Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	PO ₄	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
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	Total Coli forms 0/100 ml	E-Coli 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	-	-
Crystal Maya	BWH-56	BDL	7.66	155	85	16	5	60	50	24	16	0.09	BDL	BDL	1.2	0.3	12	0.8	Nil	Nil
Askari	BWH-57	BDL	7.18	96	53	BDL	7	30	34	10	9	0.12	BDL	BDL	0.3	BDL	9	BDL	Nil	Nil
NASH	BWH-58	BDL	7.26	325	179	8	10	60	55	60	48	0.33	BDL	BDL	0.4	0.7	30	BDL	Nil	Nil
Sky Plus	BWH-59	BDL	7.12	240	132	16	7	70	55	45	35	0.16	BDL	BDL	0.2	2	16	BDL	Nil	Nil
Al-SAHAR	BWH-60	BDL	7.31	355	195	44	7	140	50	78	14	BDL	BDL	BDL	1.1	BDL	5	BDL	15	Nil
Vinh	BWH-61	BDL	6.60	449	247	16	30	165	40	115	32	BDL	BDL	BDL	0.6	2.5	16	BDL	Nil	Nil
MR	BWH-62	BDL	6.71	370	204	16	10	80	35	80	40	BDL	BDL	BDL	0.3	0.6	25	BDL	Nil	Nil
Livon	BWH-63	BDL	6.82	372	205	20	6	75	25	96	48	BDL	BDL	BDL	0.4	1	22	BDL	Nil	Nil
NG Fresh Water	BWH-64	BDL	7.04	743	409	28	27	180	100	105	86	0.12	BDL	BDL	3.3	0.5	40	0.9	Nil	Nil
Noble	BWH-65	BDL	7.70	408	224	64	5	180	50	96	12	BDL	BDL	BDL	BDL	BDL	28	0.7	Nil	Nil
Pearl	BWH-66	BDL	7.57	318	208	52	10	170	70	74	9	BDL	BDL	BDL	3.3	0.3	30	BDL	Nil	Nil
Pak Life	BWH-67	BDL	7.68	408	224	56	10	180	55	96	12	BDL	BDL	BDL	BDL	BDL	35	BDL	Nil	Nil
AFRA	BWH-68	BDL	7.71	408	224	56	10	180	70	80	12	BDL	BDL	BDL	BDL	BDL	28	0.2	Nil	Nil
Onega	BWH-69	BDL	7.50	750	413	46	17	310	165	110	24	0.2	BDL	BDL	1.9	5	22	0.2	Nil	Nil
Hydra	BWH-70	BDL	7.40	385	212	36	22	180	180	24	22	0.21	BDL	BDL	0.6	1.4	15	BDL	Nil	Nil
Deosai	BWH-71	BDL	6.90	363	200	32	17	150	100	60	22	0.39	BDL	BDL	BDL	0.8	20	BDL	Nil	Nil
Deep Spring	BWH-72	BDL	7.05	379	208	44	19	190	145	24	12	0.10	BDL	BDL	0.6	6	15	BDL	Nil	Nil
Valley	BWH-73	BDL	7.70	427	235	52	22	220	180	24	11	0.13	BDL	BDL	1.3	2	22	0.3	Nil	Nil
Venora	BWH-74	BDL	7.87	278	153	40	12	150	100	12	4	0.15	BDL	BDL	0.8	1.1	30	0.2	Nil	Nil

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PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	PO ₄	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
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	Total Coli forms 0/100 ml	E-Coli 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	-	-
Water Plus	BWH-75	BDL	7.02	307	202	40	22	190	160	24	13	0.08	BDL	BDL	0.6	1.1	16	BDL	Nil	Nil
Nectar	BWH-76	BDL	7.20	373	205	40	18	175	150	24	18	0.06	BDL	BDL	0.8	4	16	0.2	Nil	Nil
Mehr	BWH-77	BDL	7.20	459	252	52	17	200	200	30	30	0.31	BDL	BDL	0.7	3	12	BDL	Nil	Nil
Infinity	BWH-78	BDL	7.30	364	200	30	21	160	100	48	20	BDL	BDL	BDL	0.4	3.2	29	0.2	Nil	Nil
Pacific Pure	BWH-79	BDL	7.25	212	117	12	15	90	40	26	10	BDL	BDL	BDL	0.5	BDL	28	2	Nil	Nil
Dewan Water Express	BWH-80	BDL	7.31	292	161	32	12	130	30	70	9	BDL	BDL	BDL	BDL	BDL	16	2	Nil	Nil
Aab-e-Rahat	BWH-81	BDL	7.28	316	174	20	19	130	70	55	20	BDL	BDL	BDL	BDL	2.3	9	0.7	Nil	Nil
Jami Water	BWH-82	BDL	7.10	376	207	28	12	120	80	70	31	0.06	BDL	BDL	0.5	BDL	21	0.7	Nil	Nil
Doce	BWH-83	BDL	6.70	303	167	32	10	50	30	60	9	BDL	BDL	BDL	BDL	BDL	26	BDL	Nil	Nil
Pak Natural	BWH-84	BDL	7.25	313	172	16	22	130	70	48	12	0.08	BDL	BDL	BDL	0.7	15	0.9	Nil	Nil
Aqua Dew	BWH-85	BDL	7.03	360	198	28	15	130	100	52	23	BDL	BDL	BDL	2	BDL	17	3	Nil	Nil
NEC	BWH-86	BDL	7.42	244	134	22	12	100	50	36	19	0.07	BDL	BDL	0.2	BDL	17	4	Nil	Nil
KLINZ Pure Water	BWH-87	BDL	7.26	424	233	40	24	200	50	96	12	BDL	BDL	BDL	0.2	BDL	10	7	Nil	Nil
Aqua GEN	BWH-88	BDL	6.50	158	87	12	5	65	40	23	8	BDL	BDL	BDL	BDL	BDL	18	0.7	Nil	Nil
Butt Water	BWH-89	BDL	7.20	460	253	40	22	190	70	96	20	BDL	BDL	BDL	BDL	BDL	22	1	Nil	Nil
Aqua Safe	BWH-90	BDL	7.50	411	226	40	24	150	100	55	32	BDL	BDL	BDL	1.3	BDL	36	5	Nil	Nil
SUFI	BWH-91	BDL	7.39	360	198	30	23	170	50	80	9	BDL	BDL	BDL	BDL	BDL	18	0.6	Nil	Nil

The highlighted results indicate the concentration level beyond the PSQCA Bottled Water Standards.

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PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	PO ₄	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
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	Total Coli forms 0/100 ml	E-Coli 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	-	-
Deep Rock	BWH-92	BDL	6.80	444	244	60	7	180	30	110	8	0.07	BDL	BDL	0.6	1.6	10	0.6	Nil	Nil
Gourmet	BWH-93	BDL	7.30	386	212	36	15	150	50	80	16	BDL	BDL	BDL	BDL	BDL	26	0.6	Nil	Nil
Aqua National	BWH-94	BDL	7.57	367	202	44	17	180	140	24	8	0.20	BDL	BDL	1.9	BDL	27	51	Nil	Nil
KRISCO	BWH-95	BDL	7.40	267	147	20	14	108	50	30	10	BDL	BDL	BDL	BDL	6	24	0.9	Nil	Nil
Aquatic Fresh	BWH-96	BDL	7.70	570	314	40	39	260	220	38	15	0.29	BDL	BDL	1.9	1.5	35	0.9	Nil	Nil
Moya Mineral Water	BWH-97	BDL	7.35	289	159	36	12	140	65	36	8	BDL	BDL	BDL	0.5	3.8	13	0.5	Nil	Nil
Aqua Splash	BWH-98	BDL	7.25	343	189	36	15	150	55	74	13	0.06	BDL	BDL	0.5	BDL	6	0.3	Nil	Nil
NEBRASAKA	BWH-99	BDL	7.40	407	224	50	20	206	70	78	9	BDL	BDL	BDL	BDL	2	28	BDL	Nil	Nil
WATER ICON	BWH-100	BDL	6.55	348	191	48	7	150	45	72	8	0.18	BDL	BDL	1.6	BDL	30	BDL	12	Nil

NGVS =No Guideline Value Set

BDL = Below Detection Limits

* Microbiological results have also been verified by IDEXX (Quanti-Tray/2000 USA) and Membrane Filtration (CFU/100ml, 9222-B&D APHA) Methods.

The highlighted results indicate the concentration level beyond the PSQCA Bottled Water Standards.

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