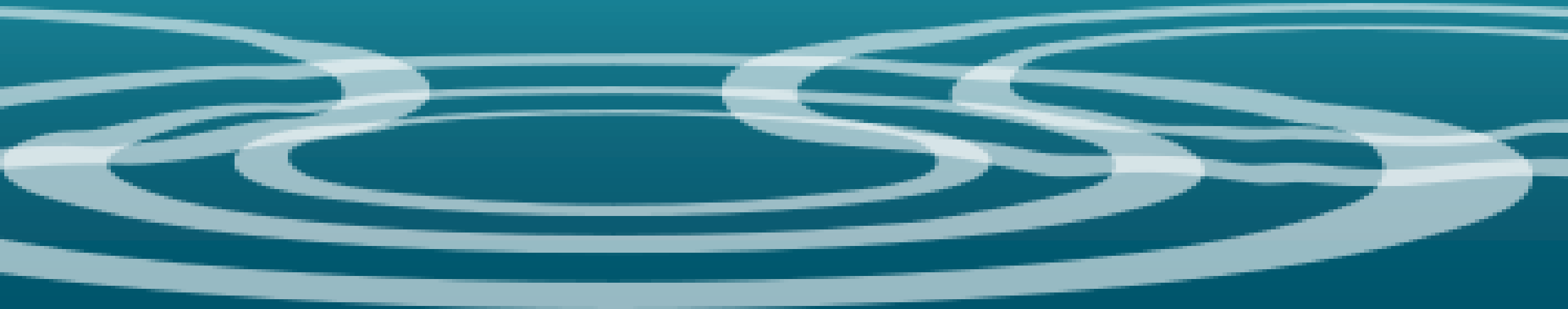


AWS Journey – Islamabad Factory

Alliance for Water Stewardship
2017 to 2020



Benefits of AWS and Level of Awareness

- Reduction in water ratio
- Better understanding of Water bodies
- Awareness of Shared water challenges
- Better commitment towards Water saving initiatives at floor level
- Stakeholder engagement activities



Certification of Site Resources

Sameera Seham Malik

Afnan Amjad

Hina Aadil

Asad Ejaz Khan



AWS journey: Capability Building at Site



Water Resources

- Nestle Islamabad factory's water source is Deep Well#3.
- DW3 is located in geological unit categorized as windblown silt. The aquifers in the zone known to be superficial.
- Factory's water saving initiatives have resulted in stability of static levels of deep well.

The Nestle Site resides on the Geological Unit categorized as Windblown Silt .

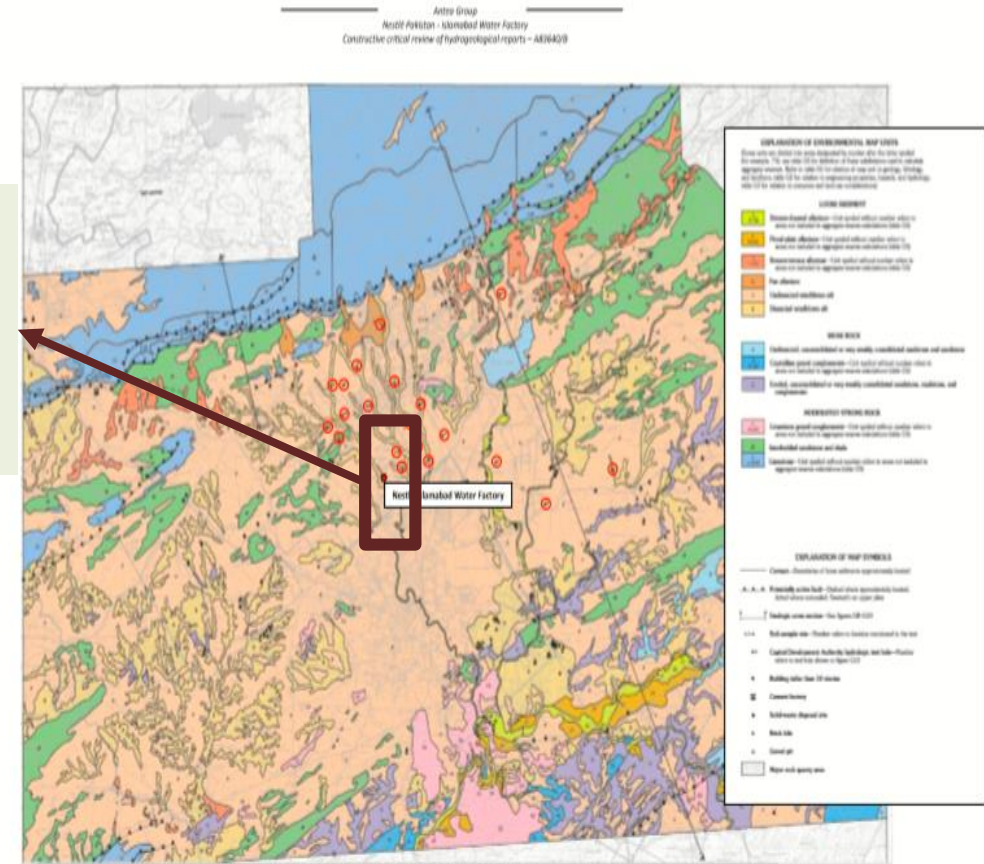


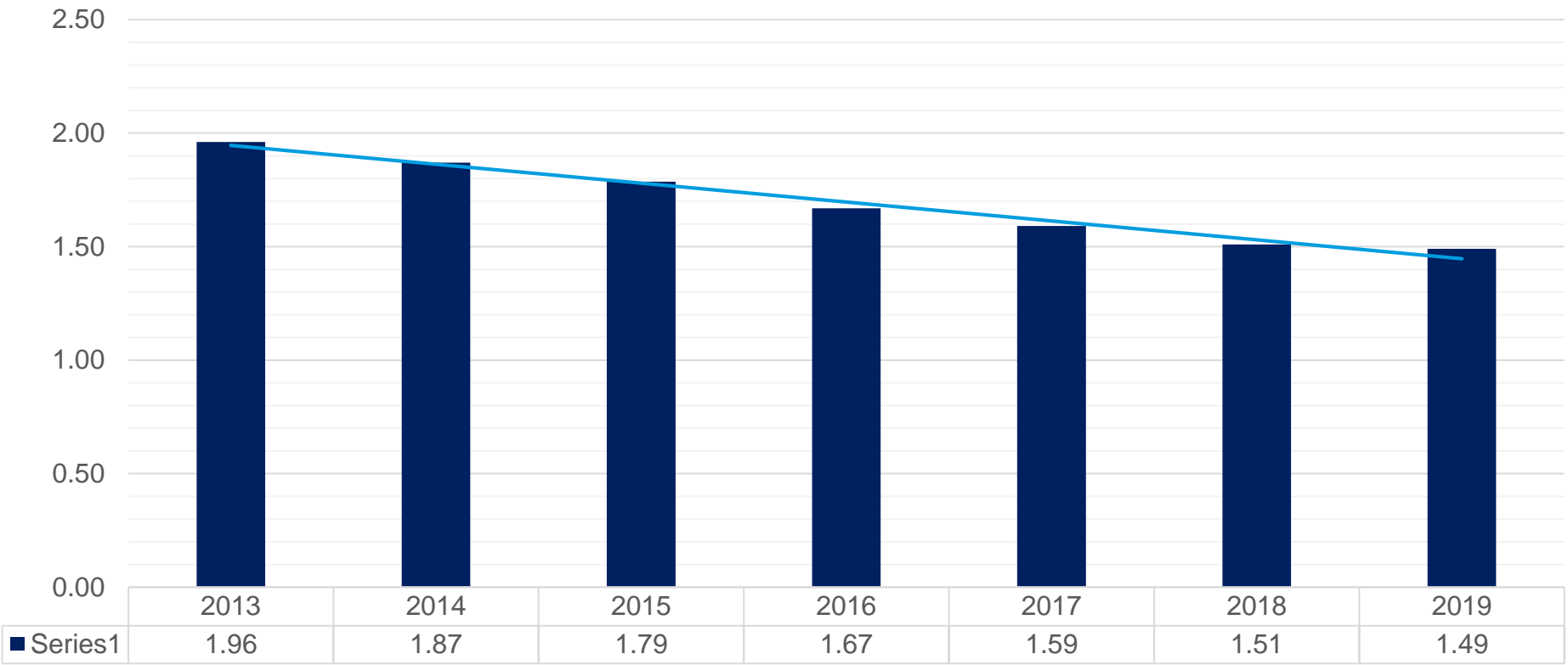
Figure 5- Local geological map of the Islamabad-Rawalpindi area [source: Environmental Geology of the Islamabad-Rawalpindi area, Northern Pakistan, Sheikh and al. (reference 3)]

Factory Water Saving Initiatives



- Rain Water Harvesting Project
- Raw water Rinsing Project
- 100 ton silo Commissioning
- 40 ton Industrial Tank Commissioning
- RO recovery from 77% to 83%
- Ozone Generator cooling unit replaced from water chilled to air chilled
- Well Flushing optimization
- Filler Flushing Optimization
- Filler Level Control
- Zero Well Flushing
- Improvement of AI from 89% to 90%, directly impacting the wastage of water
- Reduction in Water losses due to BD
- Utilization of 10 micron cartridge filters to reduce well startup flushing to zero
- Optimization of Yearly CIP plan
- Reduction in Per bottle washer consumption from 2.4 ltr to 2.2 ltr
- Water saving through elimination of cooling water during CIPs
- Reduction in line flushing and Carbon filter flushing
- Leak tester installation to detect bottles with pin holes

Reduction in Water Ratio (m3/ton) 2013 - 2019



24% reduction in water ratio from 2013 to 2019

CSV Projects



- ARTT Drip Irrigation with NARC.
- Monsoon tree plantation in collaboration with CDA at Lake View Park.
- Plantation at rear plot on Independence Day Celebration (2017 & 2018).
- 5000 trees planted at Rose and Jasmine garden and 1000 in Ankara Park in collaboration with MCI in 2019.
- 5000 trees planted for monsoon tree plantation drive in 2020 in Islamabad in collaboration with MCI.
- Landscaping of street 3 of I-10/3 Industrial area.
- Feasibility study for Check Dams and Injection Wells.
- Capability building of framers on efficient irrigation system.



- Mr. Samer Chedid, MD Nestle Pakistan, visited NARC drip irrigation.
- Dr. Bashir from NARC briefed him on the project.



NARC VISIT





- Monsoon Tree Plantation Drive, 2020.
- 5000 trees were planted in various locations of Islamabad.
- Tree plantation drive was done in collaboration with MCI.
- Mayor Islamabad, Sheikh Ansar was chief guest.

Clean and Green
Pakistan





- Monsoon Tree Plantation Drive, 2019
- 1000 trees were planted in Ankara Park, Islamabad.
- Mr. Samer Chedid, MD Nestle Pakistan, Mr. Malik Amin Aslam, Federal Minister of Climate Change,

Clean and
Green Pakistan



MoU with MoCC for Tree Plantation



Nestlé Pakistan has signed a Memorandum of Understanding (MoU) with Ministry of Climate Change, Pakistan to partner with the Clean Green Pakistan movement an initiative of the Prime Minister of Pakistan.

Nestlé Pakistan will be partnering with the key components of this movement by launching an awareness campaign on hygiene, cleanliness drive through employees, plantation of **50,000** trees across various sites, clean drinking water for communities. [Read more on this partnership here](#)



Nestlé Pakistan Partners with
CLEAN GREEN PAKISTAN

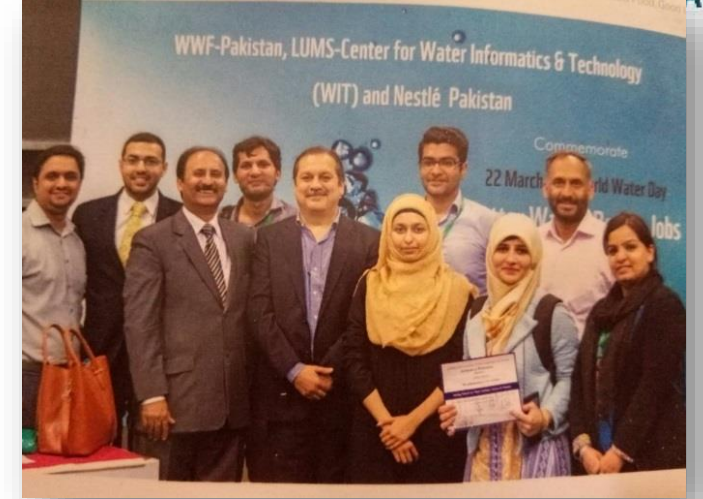
Local Stakeholder Engagements



Engagement with SDPI



Meeting with neighboring industry



Workshop arranged by Nestlé & LUMS



MoU signing between Nestlé Pakistan & WWF for AWS standards



Nestlé Pakistan Water Launch at LUMS

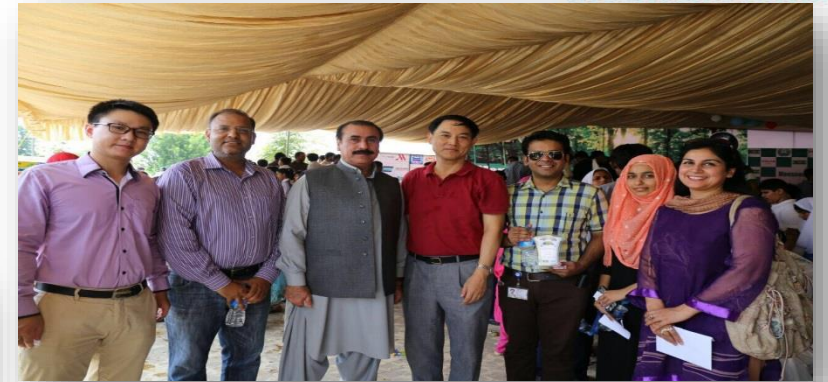
Local Stakeholder Engagements



MoU Drip Irrigation b/w Nestle & NARC



WWD celebration at ISF



Monsoon Tree Plantation with CDA



Tree Plantation at Rose and Jasmine garden with MCI



Tree Plantation at ISF

World Water Day



World Water Day



AWS Certification way forward...



- AWS Surveillance audit was conducted in January, 2020 by Bureau Veritas with no NC.
- 2nd surveillance audit is planned in September, 2020.
- Recertification audit for ISF is planned in December, 2020.



Thank You !