

Camp 9, Ukhia Upazila, Cox's Bazar District, Bangladesh



Overview & Methodology

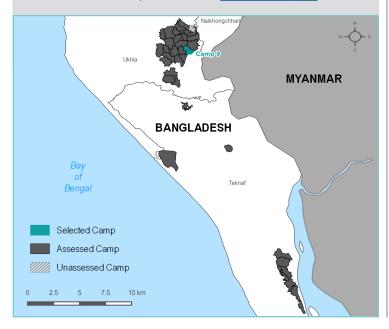
Since August 2017, an estimated 727,000 Rohingya refugees have arrived in Bangladesh's Cox's Bazar District from Myanmar, bringing the total number residing in Bangladesh to approximately 921,000. The unplanned and spontaneous nature of the post-August Rohingya refugee camps have combined with high population densities and challenging environmental conditions to produce a crisis with especially acute water, sanitation and hygiene (WASH) needs.

In April 2018, REACH undertook a WASH household assessment in the framework of the Cox's Bazar WASH Sector with UNICEF support, which established a baseline for WASH conditions and perceptions amongst Rohingya refugee communities in Cox's Bazar District. Between August and October 2018, REACH undertook this follow-up assessment, taking the form of a household survey covering 33 out of the 34 Inter Sector Coordination Group-recognised camps, with Kutupalong RC the only exception due to ongoing security concerns. Due to issues surrounding access, enumerators were able to access some of the camps only intermittently between 12 and 26 September 2018.

This follow-up assessment aims to understand changing WASH conditions across the Rohingya refugee camps since April 2018, and where possible understand the impact of the monsoon season, to inform priority areas and types of humanitarian programming. Results of this follow-up assessment are generalizable at the camp level with a 95% confidence level and a 10% margin of error. The method of identifying heads of households as primary respondents in the baseline survey resulted in a low proportion of female respondents. To address this limitation, this follow-up survey required enumerators to interview refugees of the same gender only. As a result, menstrual hygiene indicators are not included in camp-level factsheets, due to an insufficient number of females having been interviewed to yield generalizable results, however these indicators are included in the all-camp summary factsheet. This factsheet presents an analysis of data collected within Camp 9, where 117 households were surveyed,² as well as an indicator comparison table displaying changes in WASH conditions between the baseline and follow-up assessments.

Enumerator training took place prior to the start of data collection, including sessions on testing for residual chlorine run by the Centre for Disease Control, as well as Prevention of Sexual Exploitation and Abuse (PSEA) run by UNHCR. Support for questionnaire translation from English to Rohingya language and enumerator language training was provided by Translators Without Borders.

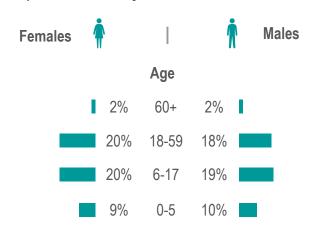
As part of this assessment, 33 camp-level factsheets and one all-camps summary factsheet display key findings from the survey. All REACH products, including those related to the baseline assessment, are available on the REACH Resource Centre. In addition, all datasets are available on Humanitarian Data Exchange, while all factsheets and maps are available on HumanitarianResponse.



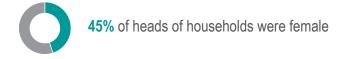
♠ Demographics

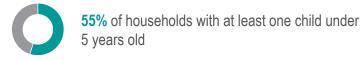
Population in camp (individuals) ³	36,623
Population in camp (families) ³	8,642
Average age of respondent	35
Average household size	5.2

Composition of surveyed households









% of households reporting different levels of overall satisfaction with water, sanitation and hygiene

Very satisfied	14%	
Satisfied	69%	
Unsatisfied	17%	
Very unsatisfied	0%	

¹Inter Sector Coordination Group Situation Report Data Summary (27 September, 2018). See: https://bit.ly/2D36vx5

²Please note that 2 surveys from Camp 9 contained water container measurement outliers and were excluded from data analysis, to avoid skewing data. This did not affect the confidence level for Camp 9.

³Due to relocations of refugees to extension camps occurring at the time of assessment, population numbers for Camp 4 Extension and Camp 20 Extension were derived from the UNHCR Family Counting August 15, 2018 dataset, while population numbers for the remaining 31 camps surveyed were derived from the July 15, 2018 dataset. This assessment considers a household a 'family' as defined in the UNHCR Family Counting datasets.







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Water

Water access

% of households reporting primary water sources for drinking water4

Primary drinking water sources	
✓ Improved water sources	100%
Tubewells/boreholes/handpump	86%
Tapstand	14%
Protected dugwell	0%
Protected spring	0%
Cart with small tank/drum	0%
Tanker truck	0%
Water tank	0%
Rainwater collection	0%
Bottled water	0%
x Unimproved water sources	0%
Unprotected dugwell	0%
Unprotected spring	0%
Surface water	0%

% of households reporting household members that normally collect water

Female		Male	Ť
40%	Adult	13%	
20%	Children	3%	I



11% of households reported total water collection time (combined travel and waiting) as more than 30 minutes^{5,6}



28% of households reported problems with accessing water

% of households reporting different problems with accessing water7

0	Path to water source is too steep	18%
2	Long wait time	13%
3	Source is too far away	11%

% of households reporting changes in access to water compared to before the monsoon season

5%	
59%	
34%	
2%	I
0%	
	59% 34% 2%

Water collection and storage

Average amount of water collected by households8

	Drinking water	Non-drinking water	All domestic water
Average litres collected per person, per day for each household	3L	3L	5L



37% of households reported collecting at least 15 litres of water for all domestic uses per person, per day9



90% of households reported collecting at least 3 litres of drinking water per person, per day¹⁰

% of containers within households that were:

Cavarad	000/	Cloon	0.50/	Covered	0.50/
Covered:	99%	Clean:	95%	AND clean:	95%

4Cox's Bazar WASH Sector considers 'improved' water sources as listed





⁵There were no significant differences in responses from females and males

⁶SDG JMP standard for combined travel time to/waiting time at water source:

³⁰ minutes or less: See: https://bit.ly/2ONrjQg

⁷Respondents could select multiple options

⁸Respondents were asked to present all water containers used to collect water the day prior to the survey, then identified which containers are used for drinking water, non-drinking water, or both. All containers were measured with tape measures to determine approximate volume.

SPHERE minimum standard for all domestic water: 15 litres/person/day See: https://bit.ly/UKcX1Z

¹⁰SPHERE minimum standard for drinking water: 2.5 - 3 litres/person/day:

See: https://bit.ly/UKcX1Z





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% of households reporting using types of containers used for all domestic water^{11,12}

•	Aluminium pitcher	97%
2	Bucket	51%
3	Plastic container	3%

% of households reporting duration of all domestic water storage within the household

Less than one day	83%	
1-2 days	17%	
3-4 days	0%	
5 days or more	0%	



12% of households possessed at least one water container containing chlorine¹³

% of containers tested for chlorine returning chlorine residual (c/r) values¹³

3	2	1.5	1	.6	.3	0.1	0.0
c/r							
0%	0%	0%	0%	0%	0%	0%	100%

of households reported witnessing someone 20% treating water with chlorine the last time they were at a waterpoint¹⁴

of households reported normally treating water 38% before drinking

% of households reporting using types of water treatments11,15

0	Aquatabs	31%
2	Cloth filters	7%
3	Boiling	2%

% of households reporting reasons for not using aguatahs¹⁶

aquati		
•	Never received aquatabs	75%
2	Don't know about aquatabs	25%
B	Don't know how to use aquatabs	25%

Coping strategies



3% of households reported facing problems accessing water in the month prior to data

% of households reporting employing different coping strategies to compensate for water insufficiency in the month prior to data collection^{11,17}

U	Use a source that is further away	3%
2	Send children to collect water	1%
3	Use untreated water for drinking	0%

Sanitation

Defecation and latrines

% of households reporting different household members normally defecating in different spaces

Places of defecation	Females ≥5	Males ≥5	Children <5
Communal/public latrines	73%	74%	19%
At facilities (e.g. school, clinic)	0%	0%	0%
Single household latrine (self-made)	2%	2%	2%
Single household latrine (non-self made)	0%	0%	0%
Shared household latrine (self-made)	21%	20%	3%
Shared household latrine (non-self made)	4%	4%	0%
Open defecation	0%	0%	59%
Bucket	0%	0%	17%
Other	0%	0%	0%



76% of households reported presence of soap the last time they were at the latrine

% of households reporting women and men facing problems with accessing latrines

•					•
	Women	51%	41%	Men	

¹¹Respondents could select multiple options

¹²Three most common types of water containers for all domestic purposes are shown

¹³Enumerators tested water for chlorine with pool testers in containers where

respondents reported using the container for collecting drinking water. 134 out of 222 total water containers were tested for chlorine across within Camp 9

¹⁴This indicator relates to an initiative in camps where volunteers or staff assist people put chlorine in their water containers when at a waterpoint

¹⁵Three most common types of water treatments used are shown





¹⁶This question was asked when respondents reported not using aquatabs. Three most common reasons for not using aquatabs are shown

Three most common strategies to compensate for water insufficiency are shown





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% of households reporting women and men facing types of problems accessing latrines^{18,19}

	Women		Men 👖	
39%	Too many people	0	Too many people	33%
28%	No gender separation	2	No gender separation	21%
21%	Latrine is full	3	Latrine is full	17%



36% of households reported at least one member feeling unsafe when using latrines

% of households reporting different family members feeling unsafe when using latrines

Fe	male	I	Male	1
	4%	Elderly	1%	I
	20%	Adults	15%	
	9%	Children	9%	

% of households reporting changes in access to latrines compared to before the monsoon season

Much better	2%	L
Better	46%	
No change	46%	
Worse	6%	
Much worse	0%	

Environmental sanitation



22% of households reported stagnant water gathering around the household following heavy rain

% of households reporting spaces used for disposing of domestic waste²⁰

0	Communal pit	45%
2	Designated open area	33%
3	Household pit	11%

% of households reporting employing different methods for disposing of children's faeces^{21,22}

Methods	
✓ Safe methods	56%
Collected, rinsed and disposed in latrine	46%
Collected and disposed in latrine (not rinsed)	10%
x Unsafe methods	21%
Collected, rinsed and disposed in the shelter	0%
Collected and disposed in an open area	13%
Disposed with other garbage	3%
Buried it	0%
Open defecation	5%



Soap and handwashing

% of households reporting possession of soap for handwashing²³

Yes (enumerator	84%	Yes (enumerator	11%	NIo:	A 0/
did see soap):	0470	did not see soap):	1170	INO.	4 70



16% of households reported facing challenges with accessing soap

% of households reporting facing different problems with accessing soap²⁴

U	Soap is too expensive	1270
2	Insufficient soap is provided in distributions	7%
3	Other needs are prioritised	1%



74% of households were able to identify at least three critical handwashing times²⁵

Coon is too expensive



420/

¹⁸ Respondents could select multiple options.

¹⁹Top three most common problems with accessing latrines are shown

²⁰Top three most common locations for disposing of domestic waste are shown

²¹Only households with at least one child under 5 were asked where they dispose of children's faeces. Global WASH Cluster standard: collecting and disposing of children's faeces in a latrine (rinsed and non-rinsed) is considered safe. See: https://bit.ly/2ACcRCf

²²Only households reporting having at least one child under 5 were asked about disposing of child faeces; data shown relates to the proportion of all surveyed households and therefore does not equal 100

²³Respondents were asked to present soap to enumerators

²⁴Top three most common problems with accessing soap are shown

²⁵Global WASH Cluster standard: the six critical times when people should wash their hands are (1) before eating, (2) before cooking, (3) after defecation, (4) before breastfeeding, (5) before feeding children, and (6) after handling a child's stool/changing a child's nappy/cleaning a child's bottom. See: https://bit.ly/2ACcRCf





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% of households identifying different times when someone should wash their hands²⁶

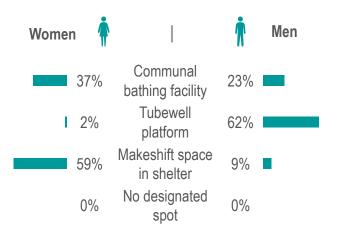


% of households reporting methods for handwashing

Soap and water	93%	
Water only	5%	•
Water and ash	2%	L

Bathing

% of households reporting women and men using types of bathing facilities



% of households reporting durations to walk to and from bathing facilities normally used

•	-	
>30 mins	0%	
30 mins	0%	
20 mins	1%	1
15 mins	6%	•
10 mins	21%	
≤5 mins	72%	

% of households reporting women and men facing problems with accessing bathing facilities

Women	13%	3%	Men	Ť

% of households reporting women and men facing types of problems with accessing bathing facilities^{26,27}

	Women	I	Men 👖	
7%	Too many people	0	Too many people	3%
5%	Facility is unclean	2	Not private	2%
4%	No gender separation	3	Too far away	1%

% of households reporting different family members feeling unsafe using bathing facilities

Females		Males	Ť
2%	Elderly	0%	
2%	Adults	0%	
I 1%	Children	0%	

% of households reporting changes in access to bathing facilities compared to before the monsoon season

Much better	2%	1
Better	63%	
No change	35%	
Worse	0%	
Much worse	0%	

Laundry

% of households reporting using types of spaces to do laundry

Tubewells	39%	
Inside the shelter	33%	
Communal bathing facility	28%	

²⁶Respondents could select multiple options



²⁷Top three difficulties with accessing bathing facilities for women and men are shown





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Hygiene distributions

% of households reporting having received a 'full' WASH hygiene kit²⁸

In the last month	1%	1	
In the last 3 months	0%		
In the last 6 months	12%		
In the last year	10%		
More than one year ago	7%		
Never received	70%		

% of households reporting having received a 'top-up' WASH hygiene kit²⁹

In the last week	10%	
In the last 2 weeks	4%	
In the last month	10%	
More than 1 month ago	9%	
More than 2 months ago	10%	
More than 3 months ago	32%	
Never received	25%	

Hygiene training and demonstrations

management



Have participated in already:

43% of households reported having participated in at least one hygiene training or demonstration within two weeks prior to the survey

Would like to participate in:

% of households reporting different hygiene training or demonstrations that households members^{30,31}

riavo parti	orpatoa irr arroady.		Would into to particip	ato III.
42%	Food hygiene	0	Food hygiene	31%
40%	Hand washing with soap	2	Hand washing with soap	25%
30%	Safe water chain	3	Use of aquatabs	23%

Diarrhoea and cholera/acute water diarrhoea³²

% of households identifying different diarrhoea prevention methods31

Eat only safe food	94%	
Wash hands with soap	86%	
Drink only clean water	64%	
Use latrines	63%	
Vaccination	3%	L

% of households identifying different diarrhoea causes³¹

Dirty food	85%	
Dirty water	68%	
Dirty hands	63%	
Open defecation	38%	
Germs	30%	

% of households identifying different signs of cholera/ acute watery diarrhoea³¹





²⁸ Full' hygiene kits include non-consumables (i.e. water containers)

²⁹'Top-up' hygiene kits include consumables (i.e. soap, shampoo)

³⁰Top three most common hygiene trainings that households have participated in and would like to participate in are shown

³¹Respondents could select multiple options

³²Acute water diarrhoea is commonly referred to as AWD





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Indicator Comparison Table: Baseline (April 2018) & Follow-up (August - October 2018) Assessments

tions within Camp 9 in Cox's Bazar District, Bangladesh. The table identifies the recognised WASH monitoring frameworks from which indicators were adopted in designing the assessments, highlighting indicators The following table displays a comparison of findings from the REACH WASH Household Baseline (April 2018) and Monsoon Follow-up (August - October 2018) assessments, showing changes in WASH condireportable across muliple frameworks where applicable.

		Monitor	Monitoring frameworks	eworks		REACH WASH Household Data	Household Data	
Indicators	Cox's Bazar WASH Sector	Global Gluster Cluster	Rohingya Response Plan Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up	
◆ Water								
% of households with access to an improved¹ water source for drinking	>	>	>	>	>	100%	100%	
% of households with access to an improved water source for other purposes (i.e. cooking and cleaning)	>	>	>	>	>	100%	100%	
% of households accessing an adequate/sufficient quantity of water ^{2,3} - drinking water = 3 litres/person/day - all domestic water = 15 litres/person/day	>>				>>		90%	
% of households reporting facing problems with accessing water in the month prior to data collection	>						3%	
% of households that use improved¹ water sources exceeding 30 minutes collection time⁴				>	>	•	11%	
% of households reporting being satisfied or very satisfied with access to water	>				>	62%	83%	
% of households that practice household water treatment	>	>			>	12%	38%	
							Colour key:	

Green = positive change from baseline Red = negative change from baseline

> Cox's Bazar WASH Sector standard for improved water sources; piped water into settlement, site/public tap'standpipe, tubewellboreholehandpump, protected dugwell, protected spring, rainwater collection, bottled water, cart with small tankforum, water tank 'SPHERE standard for sufficient quantity of water; drinking water = 2.5 - 3 litres/person/day; drinking and non-drinking water combined. 15 litres/person/day; drinking and non-drinking water combined. 15 litres/person/day; drinking and non-drinking water combined. The standard for sufficient quantity of water containers within households. Water quantity data from the nethod of estimating water capacity through enumerators' observation of water containers within households. Water quantity data from the nethod of estimating water capacity through enumerators' observation of water containers within households. Water quantity data from the baseline survey is not included in this comparison table due to limitations resulting from the method of estimating water capacity through enumerators' observation of water containers within households. Water quantity data from the baseline survey is not included in this comparison table due to limitations resulting from the method of estimating water capacity through enumerators' observation of water containers within households. Water quantity data from the capacity through enumerators' observation of water containers within households. survey is included due to the more reliable method used of enumerators measuring each water container within the household with a tape measure to determine approximate litre capacity of drinking and non-drinking water.

water source. Additional mondrioring frameworks have been ticked as they contain indicators that may be reported on by using the same findings from the beaseline and/or follow-up surveys, as follows: Global WASH Cluster. % of households with access to a source of safe water, Dougle from the population that used improved water sources; Rohingy and cooking. As such, assessment findings may be aggreed standards and meeting demand for domestic purposes; SPHERE. % of households where only safe water is used for drinking and cooking. As such, assessment findings may be aggreed standards and meeting demand for domestic purposes; SPHERE. % of households where only safe water is used for drinking and cooking. As such, assessment findings may be aggreed standards and meeting demand for domestic purposes; SPHERE. % of households where only safe water is used for drinking and cooking. As such, assessment findings may be aggreed standards and meeting demand for domestic purposes; SPHERE. % of households where only safe water is used for drinking and cooking. Please note: Indicators dentified a scenario frameworks are worded primarily as per Cox's Bazar WASH Sector indicators, with additional monitoring frameworks containing similar indicators with a containing similar indicators in a tick. For example, the Cox's Bazar WASH Sector water indicator is listed in the lable. % of households with access to an improved

1 Subtaining frameworks at the following links: Cox's Bazzar WASH Sector; https://bit.w/22/cz/c7 | Global WASH Custer: https://bit.w/22/cz/c7 | Robingya Response Joint Response Joint Response Joint Response Joint Response Joint Monitoring Program: https://bit.w/22/cz/c7 | SPHERE Indicators: https://bit.w/22/cz/c7 | SPHERE Indica





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		Monitori	Monitoring frameworks	eworks		REACH WASH Household Data	lousehold Data
Indicators	Texas Bazar NASH Sector	Global Cluster	Rohingya Response Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up
◆ Water (cont.)							
% of households possessing at least one acceptable narrow-necked or covered container for drinking		>			>	94%	%26
% of households with appropriate household water storage containers (covered and clean)	>				>	1	%56
Sanitation							
% of households in which at least one member practices open defecation - age five and over - under five		>>				0% 75%	0%
% of households reporting being satisfied or very satisfied with access to latrines						21%	75%
% of households reporting presence of human faeces around the site/block often or always					>	%8	38%
$\%$ of households reporting disposing of faeces of children under 5 in a safe 5 manner		>				35%	%95
% of households reporting being satisfied or very satisfied with the solid waste management system around the site/block						%59	87%

Foothotes:
*Global WASH Cluster standard: collecting and disposing of children's faeces in a latrine (rinsed and non-rinsed) is considered safe.

See moritoring frameworks at the following inglists: Cox's Bazar WASH Sector: https://bit.lw/.Zx/z/zv/O. I ShefRE indicators: <a href="https://bit.lw/.Zx/z/zv/O"// I Global WASH Cluster: <a href="https://bit.lw/.Zx/z/zv/O"// I Global W



Green = positive change from baseline Orange = no change from baseline Red = negative change from baseline Grey = not assessed in baseline

Colour key:



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Indicator Comparison Table: Baseline (April 2018) & Follow-up (August - October 2018) Assessments

		Monitor	Monitoring frameworks	eworks		REACH WASH I	REACH WASH Household Data	
Indicators	Cox's Bazar WASH Sector	Global Cluster	Rohingya Response Plan Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up	
→ Hygiene								
$\%$ of households in which respondent can identify at least 3 of the critical hand washing times 6		>	>		>	ı	74%	
% of households reporting possession of soap or rubbing agent or having received soap as part of a distribution	>	>	>			%29	%56	
% of households reporting problems with accessing soap						%02	16%	
% of households reporting problems with accessing bathing facilities		>					14%	
% of households reporting being satisfied or very satisfied with access to bathing facilities					>	22%	%26	
% of households having received a WASH hygiene kit and/or top-up kit and/or a voucher7	>		>			•	22%	
% of households having recently participated in at least one hygiene training or demonstration						28%	43%	
% of targeted women, men, boys and girls who are satisfied or very satisfied with the hygiene related information shared			>				%26	
							Colour key:	

,

Footnotes:
"Global WASH Cluster standard: the six critical times when someone should wash their hands are (1) before eating, (2) after defecation, (4) before breastleeding, (5) before breastleeding, (5) before consumables (i.e. soap). No questions in relation to vouchers were asked. Refer to page 6 of factsheet for more information.
"Respondents were asked when they last received (1) a hygiene kit containing non-consumables (i.e. water containing consumables (i.e. water containing consumables (i.e. water containing consumables (i.e. water containing consumables). No questions in relation to vouchers were asked. Refer to page 6 of factsheet for more information.

Factor in the following frameworks at the following frameworks at the following Program: this://bit.iv/22/12/20 I Global WASH Center: https://bit.iv/22/12/20 I Global WASH Sector: this://bit.iv/22/12/20 I Global WASH Sector: this://bit.iv/22/20 I Global W



Green = positive change from baseline Orange = no change from baseline Red = negative change from baseline Grey = not assessed in baseline