Water, Sanitation and Hygiene Follow-up Assessment Monsoon Season (August - October 2018)



Camp 1W, Ukhia Upazila, Cox's Bazar District, Bangladesh

Ø Overview & Methodology

WASH Sector Cox's Bazar

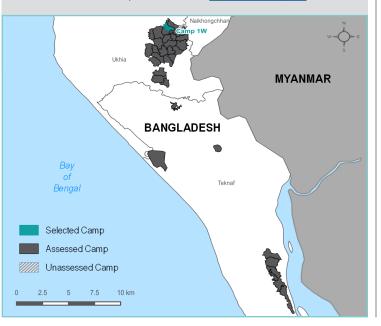
Since August 2017, an estimated 727,000 Rohingya refugees have arrived in Bangladesh's Cox's Bazar District from Myanmar, bringing the total number residing in Bangladesh to approximately 921,000.¹ The unplanned and spontaneous nature of the post-August Rohingya refugee camps have combined with high 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 1W, 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 <u>REACH Resource</u> <u>Centre</u>. In addition, all datasets are available on <u>Humanitarian Data Exchange</u>, while all factsheets and maps are available on HumanitarianResponse.



Demographics

Population in camp (individuals) ³	40,648
Population in camp (families) ³	9,381
Average age of respondent	38
Average household size	5

Composition of surveyed households





38% of respondents were female



30% of heads of households were female



51% of households with at least one child under 5 years old

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

Very satisfied	4%	1 - C
Satisfied	71%	
Unsatisfied	25%	
Very unsatisfied	0%	

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

²Please note that 3 surveys from Camp 1W contained water container measurement outliers and were excluded from data analysis, to avoid skewing data. This did not affect the confidence level for Camp 1W.

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 dataset.



For more information, please contact REACH: bangladesh@reach-initiative.org



WASH Sector Cox's Bazar Water, Sanitation and Hygiene Follow-up Assessment Monsoon Season (August - October 2018)

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100% 76% 21% 0% 0% 0% 0%

• Water

Water access

% of households reporting primary water sources for drinking water $^{\!\!\!\!^4}$

Primary drinking water sources	
✓ Improved water sources	
Tubewells/boreholes/handpump	
Tapstand	
Protected dugwell	
Protected spring	
Cart with small tank/drum	
Tanker truck	

Water tank	3%
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





23% of households reported total water collection time (combined travel and waiting) as more than 30 minutes^{5,6}

39% of households reported problems with accessing water

% of households reporting different problems with accessing water^7

0	Source is too far away	25%
2	Path to water source is too steep	25%
3	Long wait time	18%

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

Much better	1%	I.
Better	27%	
No change	58%	
Worse	14%	
Much worse	0%	

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	4L	4L	8L



53% of households reported collecting at least 15 litres of water for all domestic uses per person, per day⁹



94% of households reported collecting at least 3 litres of drinking water per person, per day¹⁰

% of containers within households that were:

Covered:	94%	Clean:

95% Covered AND clean: 92%

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

[®]Respondents 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:

SPHERE minimum standard for drin See: https://bit.ly/UKcX1Z





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

WASH Sector

Cox's Bazar

0	Aluminium pitcher	93%
2	Bucket	57%
B	Plastic container	21%

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

Less than one day	77%	
1-2 days	23%	
3-4 days	0%	
5 days or more	0%	

% of containers tested for chlorine returning chlorine residual (c/r) values^{13}

3	2	1.5	1	.6	.3	0.1	0.0
c/r							
0%	0%	0%	0%	0%	6%	51%	44%



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



of households reported normally treating water before drinking

% of households reporting using types of water treatments $^{\rm 11,15}$

0	Cloth filters	17%
2	Aquatabs	11%
3	Boiling	4%

% of households reporting reasons for not using aquatabs $^{\rm 16}$

0	Never received aquatabs	74%
2	Don't know about aquatabs	43%
3	Don't know how to use aquatabs	31%

Coping strategies



7% of households reported facing problems accessing water in the month prior to data collection

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

	Contration	
3	Use an unsafe water source	1%
2	Use a source that is further away	3%
1	Use untreated water for drinking	4%

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	54%	56%	16%
At facilities (e.g. school, clinic)	1%	1%	2%
Single household latrine (self-made)	3%	2%	14%
Single household latrine (non-self made)	14%	12%	9%
Shared household latrine (self-made)	29%	28%	2%
Shared household latrine (non-self made)	0%	1%	0%
Open defecation	0%	0%	44%
Bucket	0%	0%	13%
Other	0%	0%	0%



67% 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



- ¹³Enumerators tested water for chlorine with pool testers in containers where
- respondents reported using the container for collecting drinking water. 175 out of 295 total water containers were tested for chlorine across within Camo 1W
- 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

¹⁷Three most common strategies to compensate for water insufficiency are shown





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

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

	🛉 Women	Ι	Men 👖	
45%	Too many people	0	Too many people	31%
27%	No gender separation	2	No gender separation	14%
19%	Too far away	3	Unclean	13%

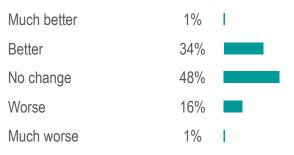


47% of households reported at least one member feeling unsafe when using latrines

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



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



Environmental sanitation



unicef

48% of households reported stagnant water gathering around the household following heavy rain

% of households reporting spaces used for disposing of domestic waste²⁰

1	Designated open area	62%
2	Communal pit	24%
3	Household pit	5%

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

Methods	
✓ Safe methods	31%
Collected, rinsed and disposed in latrine	29%
Collected and disposed in latrine (not rinsed)	2%
x Unsafe methods	30%
Collected, rinsed and disposed in the shelter	2%
Collected and disposed in an open area	21%
Disposed with other garbage	7%
Buried it	0%
Open defecation	0%

🆫 Hygiene

Soap and handwashing

% of households reporting possession of soap for handwashing^{\rm ^{23}}

Yes (enumerator did see soap):

50% Yes (enumerator did not see soap):

25% No: 25%



64% of households reported facing challenges with accessing soap

% of households reporting facing different problems with accessing soap²⁴

0	Soap is too expensive	49%
2	Insufficient soap is provided in distributions	43%
B	Other needs are prioritised	15%



41% of households were able to identify at least three critical handwashing times²⁵

¹⁸Respondents 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

²⁶Global 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





Camp 1W, Ukhia Upazila, Cox's Bazar District, Bangladesh

% of households identifying different times when someone should wash their hands $^{\rm 26}$

WASH Sector Cox's Bazar

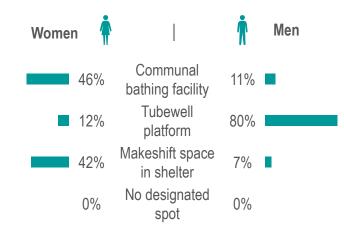
After defecation	68%	Before feeding children	35%
Before eating	65%	When hands look dirty	28%
Before cooking/ meal preparation	55%	Before breastfeed- ing	18%
Before prayer	42%	After handling child faeces	12%
After eating	39%	When hands feel dirty, sticky, oily	3%

% of households reporting methods for handwashing

Soap and water	80%	
Water only	16%	
Water and ash	4%	•

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	1%	I.
30 mins	1%	1
20 mins	2%	1
15 mins	1%	1
10 mins	25%	
≤5 mins	70%	

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

Ť	Women	45%		10%	Men	ń	
	ouseholds r f problems		*			•	7
	🛉 Wome	en		M	en 👖		
22%	Too many	people	0	Too ma	any peo	ople	5%
11%	Too fa	r away	2	Too far	away		3%
11%		gender aration	ß	Rubbis facility	h near	by	2%

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

Ť	Females			Mal	es	İ
		14%	Elderly	2%	I.	
		15%	Adults	4%	I	
		8%	Children	1%	I	

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

Much better	4%	1 - C
Better	22%	
No change	70%	
Worse	4%	1. State 1.
Much worse	0%	

Laundry

% of households reporting using types of spaces to do laundry

Tubewells	46%	
Communal bathing facility	30%	
Inside the shelter	25%	

²⁶Respondents could select multiple options

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



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Hygiene distributions

NASH Sector

Cox's Bazar

% of households reporting having received a 'full' WASH hygiene kit^{\mbox{\tiny 28}}

In the last month 10 In the last 3 months 13 In the last 6 months 29 In the last year 6⁶ More than one year ago 6⁶ Never received 36

 10%

 13%

 29%

 6%

 6%

 36%

% of households reporting having received a 'top-up' WASH hygiene $kit^{\mbox{\scriptsize 29}}$

In the last week	5%	•
In the last 2 weeks	6%	•
In the last month	6%	•
More than 1 month ago	6%	•
More than 2 months ago	9%	
More than 3 months ago	23%	
Never received	45%	

Hygiene training and demonstrations



21% of households reported having participated in at least one hygiene training or demonstration within two weeks prior to the survey

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

Have participated in already:

Would like to participate in:

18%	Safe water chain management	0	Safe water chain management	66%
18%	Hand washing with soap	2	Hand washing with soap	60%
16%	Food hygiene	3	Food hygiene	54%

Diarrhoea and cholera/acute water diarrhoea³²

% of households identifying different diarrhoea prevention methods³¹

% of households identifying different diarrhoea causes³¹

Dirty water	89%
Dirty food	75%
Open defecation	56%
Germs	25%
Dirty hands	23%

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

Rice watery stools	96%	
Stomach pain/cramps	41%	
Vomiting	29%	
Rapid dehydration	25%	
Sunken eyes	25%	

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

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

 $^{\rm 30}\text{Top}$ 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









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

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 conditions within Camp 1W 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 reportable across muliple frameworks where applicable.

	L	Monito	Monitoring frameworks	eworks		REACH WASH	REACH WASH Household Data
Indicators	Cox's Bazar WASH Sector	Global WASH Cluster	Aohingya Response Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up
Water							
% of households with access to an improved ¹ water source for drinking	>	>	>	>	>	66%	100%
% of households with access to an improved' water source for other purposes (i.e. cooking and cleaning)	>	>	>	>	>	%66	100%
% of households accessing an adequate/sufficient quantity of water ²³ - drinking water = 3 litres/person/day - all domestic water = 15 litres/person/day	>>				>>		94% 53%
% of households reporting facing problems with accessing water in the month prior to data collection	>						7%
% of households that use improved ¹ water sources exceeding 30 minutes collection time ⁴				>	>		23%
% of households reporting being satisfied or very satisfied with access to water	>				>	61%	75%
% of households that practice household water treatment	>	>			>	13%	26%
							Colour Key: Green = postine change from baseline Orange = no change from baseline Red = megative change from baseline Grey = not assessed in baseline
Footnotes: Cox's Bazar WASH Sector standard for improved water sources: piped water into settlement site/public tap/standpipe, tubewell/borehole/handpump, protected dugwell, protected sping, rainwater collection, bottled water, cart with small tank/drum, water tank	ollection, bottled wat	er, cart with small t	ank/drum, water tan	~			

*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

Water quantify data from the baselie survey is not included in this comparison table due to limitations resulting from the method of estimating water capacity through enumerators' observation of water containents within households. Water quantity data from the follow-up

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 monitoring frameworks have been toked as they contain indicators that may be reported on by using the same findings from the baseline and/or follow-up surveys, as follows: Global WASH Clustent: % of households with access to a source of safe water; Source and indicators that may be reported on by using the same findings from the baseline and/or follow-up surveys, as follows: Global WASH Clustent; So thouseholds with access to a source of safe water; Source and safe water; Sources; Rohingia Response DRPS: # of fourseholds with access to a source of safe water; Source of safe water sources; Rohingia and sources; Rohingia and sources; Rohingia and source and safe water is used for drinking and cooking. As such assessment findings may be aggregated to the fire listed monitoring frameworks. The same principle applies to all common indicators. Please note: Indicates is elentified as reportable across multiple monitoring frameworks are worded primarily as per Cox's Bazar WASH Sector indicators (with access to an indicator section and and in the same works or indicators with additional monitoring frameworks containing similar indicators with a cost section are indicators with access to an indicator section are indicators with access to an indicator section are indicators are worded primarily as per Cox's Bazar WASH Sector indicators with access to an indicator section are indicators are worded primarily as per Cox's Bazar WASH Sector area are indicators are indicators are indicators are indicators are indicators are indicator are indicators are indicators are indicator are indicators are indicators are indicators are indicators are indicators are indicators are indicator are indicators are

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

		Monitor	Monitoring frameworks	eworks		REACH WASH	REACH WASH Household Data
Indicators	Cox's Bazar WASH Sector	Global WPSH Cluster	Seringya 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		>			>	%66	93%
% of households with appropriate household water storage containers (covered and clean)	>				>	T	92%
Sanitation							
% of households in which at least one member practices open defecation - age five and over - under five		>>				1% 44%	0% 44%
% of households reporting being satisfied or very satisfied with access to latrines						34%	69%
% of households reporting presence of human faeces around the site/block often or always					>	18%	18%
$\%$ of households reporting disposing of faeces of children under 5 in a safe $^{ m 5}$ manner		>				51%	31%
% of households reporting being satisfied or very satisfied with the solid waste management system around the site/block						39%	45%
							Colour key: Green = positive change from baseline Orange = no change from baseline Red = inegative change from baseline Grey = not assessed in baseline

See monitoring frameworks at the following links: Cox's Bazar WASH Sector: <u>https://bit.W2ZicvCo</u> 1 Global WASH Cluster: <u>https://bit.W2ZicvCo</u> 1 Global WASH Cl Footnotes: ⁵Clobal WASH Cluster standard: collecting and disposing of children's faeces in a latrine (rinsed and non-rinsed) is considered safe.



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

	Z	lonitorir	Monitoring frameworks	works		REACH WASH I	REACH WASH Household Data
Indicators	Cox's Bazar WASH Sector	Global WASH Cluster	Rohingya Response Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up
The Hygiene							
$\%$ of households in which respondent can identify at least 3 of the critical hand washing times 6		>	>		>	ı	41%
% of households reporting possession of soap or rubbing agent or having received soap as part of a distribution	>	>	>			62%	75%
% of households reporting problems with accessing soap						64%	64%
% of households reporting problems with accessing bathing facilities		>					46%
% of households reporting being satisfied or very satisfied with access to bathing facilities					>	44%	67%
% of households having received a WASH hygiene kit and/or top-up kit and/or a voucher ⁷	>		>				37%
% of households having recently participated in at least one hygiene training or demonstration						22%	21%
% of targeted women, men, boys and girls who are satisfied or very satisfied with the hygiene related information shared			>			ı	89%
							Colour key: Green = positive change from baseline Orgors = no change from baseline Rea = negative change from baseline Grey = not assessed in baseline

Footnotes: *Global WASH Cluster standard: the six critical times when someone should wash their hands are (1) before cooking. (2) after defection. (4) before breastfeeding. (5) before freeding. (5) before freeding children, and (6) after handling a childr s stool/changing a nappy/deaning a childr s bottom. *Global WASH Cluster standard: the six critical times when someone should wash their hands are (1) before eating. (2) after defection. (4) before breastfeeding. (5) before freeding. (5) before freeding children, and (6) after handling a childr s stool/changing a nappy/deaning a childr s bottom. *Respondents were asked when they last received (1) a hygiene kit containing non-consumables (i.e. scap). No questions in relation to vocchers were asked. Refer to page 6 of factsheet for more information.

See monitoring frameworks at the following links: Cox's Bazar WASH Sector: https://bit/W2ZCBRC1 Rohingya Response Plan 2019; https://bit/W2K/IZ

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