

Camp 4 Ext, Ukhia Upazila, Cox's Bazar District, Bangladesh



### Overview & Methodology

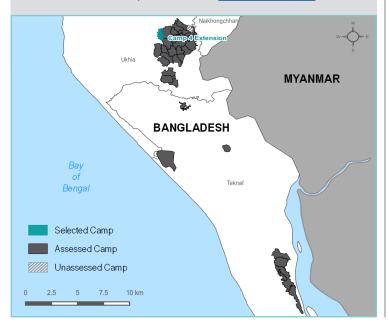
Since August 2017, an estimated 727,000 Rohingya refugees have arrived in Bangladesh's Cox's Bazar District from Myanmar, bringing the total number residing in Bangladesh to approximately 921,000. The unplanned and spontaneous nature of the post-August Rohingya refugee camps have combined with high population 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 4 Ext, where 97 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.

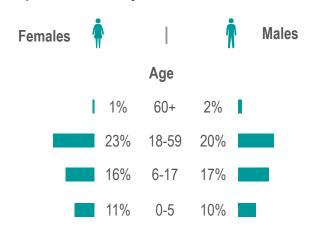
As part of this assessment, 33 camp-level factsheets and one all-camps summary factsheet display key findings from the survey. All REACH products, including those related to the baseline assessment, are available on the <a href="REACH Resource Centre">REACH Resource Centre</a>. In addition, all datasets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

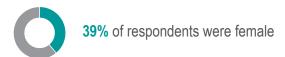


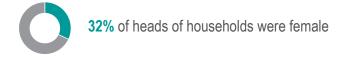
### ♠ Demographics

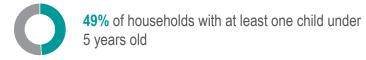
Population in camp (individuals) <sup>3</sup>	2,423
Population in camp (families) <sup>3</sup>	602
Average age of respondent	33
Average household size	4.5

### Composition of surveyed households









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

Very satisfied	9%	
Satisfied	75%	
Unsatisfied	15%	
Very unsatisfied	1%	1

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

<sup>2</sup>Please note that 10 surveys from Camp 4 Ext contained water container measurement outliers and were excluded from data analysis, to avoid skewing data. This did not affect the confidence level for Camp 4 Ext.

<sup>3</sup>Due 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 access

% of households reporting primary water sources for drinking water4

Primary drinking water sources	
✓ Improved water sources	100%
Tubewells/boreholes/handpump	93%
Tapstand	6%
Protected dugwell	1%
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
49%	Adult	13%	
3%	Children	2%	L



13% of households reported total water collection time (combined travel and waiting) as more than 30 minutes<sup>5,6</sup>



32% of households reported problems with accessing water

### % of households reporting different problems with accessing water7

0	Long wait time	29%
2	Source is too far away	17%
3	Water tastes bad	3%

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

Much better	2%	I
Better	44%	
No change	49%	
Worse	5%	
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



71% 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 day<sup>10</sup>

### % of containers within households that were:

Covered	060/	Claan	020/	Covered	040/
Covered:	90%	Clean:	93%	AND clean:	91%

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

<sup>10</sup>SPHERE minimum standard for drinking water: 2.5 - 3 litres/person/day: See: https://bit.ly/UKcX1Z





<sup>&</sup>lt;sup>5</sup>There were no significant differences in responses from females and males

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

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

<sup>&</sup>lt;sup>7</sup>Respondents could select multiple options

<sup>&</sup>lt;sup>8</sup>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





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% of households reporting using types of containers used for all domestic water<sup>11,12</sup>

0	Aluminium pitcher	91%
2	Bucket	66%
3	Plastic container	6%

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

Less than one day	94%	
1-2 days	6%	•
3-4 days	0%	
5 days or more	0%	



**37%** of households possessed at least one water container containing chlorine<sup>13</sup>

% of containers tested for chlorine returning chlorine residual (c/r) values<sup>13</sup>

3	2	1.5	1	.6	.3	0.1	0.0
c/r							
1%	0%	0%	0%	0%	0%	15%	84%

of households reported witnessing someone treating water with chlorine the last time they were at a waterpoint<sup>14</sup>

**30%** of households reported normally treating water before drinking

% of households reporting using types of water treatments<sup>11,15</sup>

0	Aquatabs	25%
2	Cloth filters	3%
3	Household filters	1%

% of households reporting reasons for not using aquatabs<sup>16</sup>

aquatas		
0	Never received aquatabs	40%
2	Supply of aquatabs ran out	40%
3	Don't know about aquatabs	22%

### **Coping strategies**



**0%** 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<sup>11,17</sup>

U	Use untreated water for drinking	0%
2	Use surface water for drinking water	0%
<b>B</b>	Use untreated water (non-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	38%	43%	24%
At facilities (e.g. school, clinic)	0%	0%	0%
Single household latrine (self-made)	6%	7%	2%
Single household latrine (non-self made)	20%	15%	2%
Shared household latrine (self-made)	12%	7%	2%
Shared household latrine (non-self made)	24%	28%	12%
Open defecation	0%	0%	49%
Bucket	0%	0%	9%
Other	0%	0%	0%



**69%** 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	0%	0%	Men	7

<sup>&</sup>lt;sup>11</sup>Respondents could select multiple options

<sup>13</sup>Enumerators tested water for chlorine with pool testers in containers where

respondents reported using the container for collecting drinking water. 115 out of 182 total water containers were tested for chlorine across within Camp 4 Ext



<sup>12</sup>Three most common types of water containers for all domestic purposes are shown

<sup>&</sup>lt;sup>14</sup>This indicator relates to an initiative in camps where volunteers or staff assist

people put chlorine in their water containers when at a waterpoint

 <sup>15</sup>Three 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

<sup>17</sup>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<sup>18,19</sup>

	Women		Men 🐧	
0%	Too far away	0	Too far away	0%
0%	Too many people	2	Too many people	0%
0%	Unclean	3	Unclean	0%



0% of households reported at least one member feeling unsafe when using latrines

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

Female		Male	İ
0%	Elderly	0%	
0%	Adults	0%	
0%	Children	0%	

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

Much better	6%	
Better	54%	
No change	40%	
Worse	0%	
Much worse	0%	

### **Environmental sanitation**



18% of households reported stagnant water gathering around the household following heavy rain

% of households reporting spaces used for disposing of domestic waste<sup>20</sup>

0	Communal pit	53%
2	Designated open area	24%
3	Household/street bin	14%

% of households reporting employing different methods for disposing of children's faeces<sup>21,22</sup>

Methods	
✓ Safe methods	51%
Collected, rinsed and disposed in latrine	49%
Collected and disposed in latrine (not rinsed)	2%
x Unsafe methods	7%
Collected, rinsed and disposed in the shelter	0%
Collected and disposed in an open area	2%
Disposed with other garbage	5%
Buried it	0%
Open defecation	0%

### 🦫 Hygiene

### Soap and handwashing

% of households reporting possession of soap for handwashing<sup>23</sup>

Yes (enumerator	75%	Yes (enumerator	110/	No:	14%
did see soap):	1 J /0	did not see soap):	11/0	INO.	14 /0



41% of households reported facing challenges with accessing soap

% of households reporting facing different problems with accessing soap<sup>24</sup>

Insufficient agencie provided in distributions

U	insufficient soap is provided in distributions	34%
2	Soap is too expensive	13%



7%



43% of households were able to identify at least three critical handwashing times<sup>25</sup>



<sup>18</sup> Respondents could select multiple options.

<sup>&</sup>lt;sup>19</sup>Top three most common problems with accessing latrines are shown

<sup>&</sup>lt;sup>20</sup>Top three most common locations for disposing of domestic waste are shown

<sup>&</sup>lt;sup>21</sup>Only 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

<sup>&</sup>lt;sup>22</sup>Only 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

<sup>&</sup>lt;sup>23</sup>Respondents were asked to present soap to enumerators

<sup>&</sup>lt;sup>24</sup>Top three most common problems with accessing soap are shown

<sup>&</sup>lt;sup>25</sup>Global 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 hands<sup>26</sup>

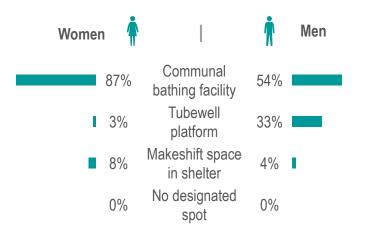
Before eating	78%	Before feeding children	40%
After eating	76%	When hands look dirty	21%
After defecation	72%	After handling child faeces	20%
Before prayer	51%	Before breastfeeding	10%
Before cooking/ meal preparation	49%	When hands feel dirty, sticky, oily	7%

### % of households reporting methods for handwashing

Soap and water	87%	
Water only	13%	
Water and ash	0%	

### **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	0%	
15 mins	0%	
10 mins	20%	
≤5 mins	80%	

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

Women	3%	19	% Men	Ť
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% of households reporting women and men facing types of problems with accessing bathing facilities<sup>26,27</sup>

	Women	I	Men 🕴	
3%	Too far away	0	Too far away	1%
3%	Too many people	2	Too many people	1%
0%	Facility is unclean	3	Facility is unclean	0%

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

Femal	es		Males	İ
- 1	2%	Elderly	0%	
1	1%	Adults	0%	
	0%	Children	0%	

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

Much better	3%	1
Better	52%	
No change	45%	
Worse	0%	
Much worse	0%	

### Laundry

% of households reporting using types of spaces to do laundry

Communal bathing facility	57%	
Tubewells	28%	
Inside the shelter	15%	

<sup>&</sup>lt;sup>26</sup>Respondents could select multiple options



<sup>&</sup>lt;sup>27</sup>Top 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 kit<sup>28</sup>

In the last month	1%	1
In the last 3 months	5%	
In the last 6 months	2%	1
In the last year	8%	
More than one year ago	2%	1
Never received	82%	

% of households reporting having received a 'top-up' WASH hygiene kit<sup>29</sup>

In the last week	0%	
In the last 2 weeks	2%	I
In the last month	4%	
More than 1 month ago	7%	
More than 2 months ago	22%	
More than 3 months ago	25%	
Never received	40%	

### Hygiene training and demonstrations



44% 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:

41%	Safe water chain management	0	Food hygiene	47%
41%	Hand washing with soap	2	Use of aquatabs	46%
31%	Food hygiene	8	Child	46%

handwashing

### Diarrhoea and cholera/acute water diarrhoea<sup>32</sup>

% of households identifying different diarrhoea prevention methods31

Wash hands with soap	87%	
Eat only safe food	70%	
Drink only clean water	66%	
Use latrines	62%	
Vaccination	6%	

% of households identifying different diarrhoea causes<sup>31</sup>

Dirty water	80%	
Dirty food	76%	
Germs	68%	
Dirty hands	45%	
Open defecation	38%	

% of households identifying different signs of cholera/ acute watery diarrhoea<sup>31</sup>

Rice watery stools	87%	
Stomach pain/cramps	40%	
Rapid dehydration	39%	
Vomiting	39%	
Sunken eyes	28%	



<sup>&</sup>lt;sup>28</sup> Full' hygiene kits include non-consumables (i.e. water containers)

<sup>&</sup>lt;sup>29</sup>'Top-up' hygiene kits include consumables (i.e. soap, shampoo)

<sup>&</sup>lt;sup>30</sup>Top three most common hygiene trainings that households have participated in and would like to participate in are shown

<sup>31</sup>Respondents could select multiple options

<sup>32</sup>Acute water diarrhoea is commonly referred to as AWD





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### Indicator Table: Follow-up Assessment (August - October 2018)

The following table displays key findings from Camp 4 Extension and identifies the recognised WASH monitoring frameworks from which indicators were adopted in designing the follow-up assessment, highlighting indicators reportable across muliple frameworks where applicable. Please note that Camp 4 Extension was not operational in April 2018 and therefore was not included in the baseline survey.

		Monitor	Monitoring frameworks	eworks		REACH WASH Household Data
Indicators	Cox's Bazar WASH Sector	Global Cluster	Rohingya Response Plan Joint Response Plan	SDG Joint Monitoring msrgor9	SPHERE Indicators	Monsoon Follow-up
◆ Water						
% of households with access to an improved¹ water source for drinking	>	>	>	>	>	100%
% of households with access to an improved¹ water source for other purposes (i.e. cooking and cleaning)	>	>	>	>	>	100%
% of households accessing an adequate/sufficient quantity of water <sup>2,3</sup> - drinking water = 3 litres/person/day - all domestic water = 15 litres/person/day	>>				>>	94% 71%
% of households reporting facing problems with accessing water in the month prior to data collection	>					%0
% of households that use improved¹ water sources exceeding 30 minutes collection time⁴				>	>	13%
% of households reporting being satisfied or very satisfied with access to water	>				>	84%
% of households that practice household water treatment	>	>			>	30%

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.

Please note: Incitators is interfied as reportable across multiple monitoring frameworks are worded primarily as per Cox's Bazar WASH Sector indicators, with additional monitoring frameworks containing similar indicators is entitled in the same row with a tick. For example, the Cox's Bazar WASH Sector indicators with access to a source of safe water. So Cox's Bazar WASH Sector water indicators that used improved water sources, Rohingya Response JRP: # of households with access to a source of safe water of safe water of safe water sources. Rohingya Response JRP: # of households where only safe water indicators and meeting demand for domestic purposes; SPHERE: % of households where only safe water of safe water of agreed standards and meeting demand for domestic purposes; SPHERE: % of households where only safe water is seasesment findings may be aggregated to the five listed monitoring frameworks. The same principle applies to all common indicators.

1 Sustainable Development Goals Joint Monitoring Program: https://bit.w/22/c2/c7 | Global WASA Custerin https://bit.w/2A/c2RC | Rehingra Response Joint Response Plan 2019; https://bit.w/2A/CSRn1 | Sustainable Development Goals Joint Monitoring Program: https://bit.w/2A/c2RC | SPHERE Indicators: https://bit.w/2A/c3RC | Rehingra Response Joint Response Joint Monitoring Program: https://bit.w/2A/c3RC | SPHERE Indicators: https://bit.w/2A/c3RC | SPHERE In







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

		Monitori	Monitoring frameworks	eworks		REACH WASH Household Data
Indicators	Cox's Bazar WASH Sector	Global Cluster	Rohingya Response Plan Loint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Monsoon Follow-up
◆ Water (cont.)						
% of households possessing at least one acceptable narrow-necked or covered container for drinking		>			>	91%
% of households with appropriate household water storage containers (covered and clean)	>				>	91%
Sanitation						
% of households in which at least one member practices open defecation - age five and over - under five		>>				0% 49%
% of households reporting being satisfied or very satisfied with access to latrines						100%
% of households reporting presence of human faeces around the site/block often or always					>	11%
% of households reporting disposing of faeces of children under 5 in a safe <sup>5</sup> manner		>				51%
% of households reporting being satisfied or very satisfied with the solid waste management system around the site/block						93%

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

See minioring frameworks at the following instructions that a cover Bazaar WASH Sector: https://bit.ly/22/lc2/O I Global WASH Clears intps://bit.ly/22/lc2/O I Global WASH Sector: https://bit.ly/22/lc2/O I G





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

		Monitor	Monitoring frameworks	eworks		REACH WASH Household Data
Indicators	Cox's Bazar WASH Sector	Global Gluster Cluster	Rohingya Response Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Monsoon Follow-up
→ Hygiene						
% of households in which respondent can identify at least 3 of the critical hand washing times <sup>6</sup>		>	>		>	43%
% of households reporting possession of soap or rubbing agent or having received soap as part of a distribution	>	>	>			%98
% of households reporting problems with accessing soap						41%
% of households reporting problems with accessing bathing facilities		>				3%
% of households reporting being satisfied or very satisfied with access to bathing facilities					>	%86
% of households having received a WASH hygiene kit and/or top-up kit and/or a voucher7	>		>			11%
% of households having recently participated in at least one hygiene training or demonstration						44%
% of targeted women, men, boys and girls who are satisfied or very satisfied with the hygiene related information shared			>			100%

Fodnotes:
"Global WASH Cluster standard: the six critical times when someone should wash their hands are (1) before eating, (2) after defecation, (4) before breastfeeding, (5) before breastfeeding, (5) before breastfeeding, (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). No questions in relation to vouchers were asked. Refer to page 6 of factsheet for more information.

See minoring framework at the following in this: Cox's Bazari WASH Sector; https://bit.lw/2x/2x/2/O I Global WASH Clears in the start interstrate of I Rehingra Response Joint Monitoring Program: https://bit.lw/2x/2x/2

