

MATERIAL TOPIC: WATER, INCLUDING PRODUCED WATER	2017	2018	2019	2020	2021	CONTEXT	GRI/SASB
Annual Production - Annual Report figure, financial control: boe	24,827,665	31,853,185	36,630,232	34,839,540	31,173,190		
Annual Production - Annual Report minus non-operated volumes (CDP): boe	21,273,660	28,712,829	36,604,811	34,723,518	31,154,575	2015-2016: excludes non-op volumes from GBU & IBU; 2017: excludes non-op from IBU; 2018: excludes ~11 months non-op from IBU	
Annual Production - Operated facility throughput including third-party volumes: boe	19,102,132	29,440,819	44,708,966	42,202,207	36,865,352	Use for water intensity calculations to ensure numerator/denominator alignment	
<b>WATER WITHDRAWALS</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>		<b>GRI</b>
Total water withdrawal including produced water: ML	25,880	43,041	70,158	67,202	65,605	From 2012-2018, Vermilion reported the production and re-use of produced water separate from water withdrawn from other sources. For 2019 data onwards, we have updated our reporting to more closely align with CDP's definitions, reflecting our first CDP Water Security submission and also informed by GRI 303 (2018) and SASB EM-EP-140a.1 and 2. This includes metrics conversion from m3 to ML (ML = m3/1000).	
Canada	2,441	17,833	39,234	34,852	31,638		
France	14,407	15,730	14,863	13,903	13,709		
Netherlands	41	46	25.4	24.6	14.9		
Australia	8,400	8,795	15,270	17,386	18,912		
United States	90	108	326	384	302		
Germany	502	526	397	628	1,005		
Central and Eastern Europe - Hungary and Croatia		1	4	1.6	0.9		
Ireland		2	36	24	24		
Total water withdrawal excluding produced water: ML	821	767	7,009	8,248	9,590	85% of water withdrawal is produced water	303-1
Canada	82	113	187	141	154		
France	504	625	494	581	420		
Netherlands	30	27	11	4.6	5.4		
Australia	183	0	6,189	7,398	8,949		
United States	23	0	106	109	51		
Germany	0	0	3	1.7	0.7		
Central and Eastern Europe - Hungary and Croatia		1	4	1.6	0.9		
Ireland		2	16	12	9		
Total Water Withdrawal including produced water, by source							
Surface/Freshwater, including rainwater, wetlands, rivers, lakes: ML	12	16	44	12	124	Total dissolved solids <10,000mg/L	303-1
Canada	12	16	40	12	124	2021 increase offset by reduction in use of renewable groundwater	
France	0	0	0	0	0		
Netherlands	0	0	4	0	0		
Australia	0	0	0	0	0		
United States	0	0	0	0	0		
Germany	0	0	0	0	0		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0		
Ireland		0	0	0	0		
Surface/Brackish water, including oceans: ML	183	213	198	7,398	8,949	Total dissolved solids >10,000mg/L	
Australia	183	213	6,189	7,398	8,949	Only applicable in Australia	
Groundwater - renewable: ML	569	700	622	691	436	Generally shallower groundwater resources that can be replenished/recharged within ~50 years	303-1
Canada	62	82	128	116	22		
France	494	618	494	575	414		
Netherlands	12	1	0	0	0		
Australia	0	0	0	0	0		
United States	0	0	0	0	0		
Germany		0	0	0.5	0		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0		
Ireland		0	0	0	0		
Groundwater - non-renewable, excluding produced water: ML	23	47	106	109	109	Generally deeper groundwater resources that have negligible recharge within ~50 years	
United States	23	47	106	109	50		
Groundwater - non-renewable, produced water: ML	25,059	42,274	63,148	58,955	56,016	Includes formation water, flow-back water and condensation water	
Canada	2,359	17,720	39,047	34,711	31,484		

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France	13,903	15,105	14,370	13,322	13,289		
Netherlands	11	20	14	20	9.5		
Australia	8,217	8,795	9,082	9,988	9,963		
United States	67	108	221	275	251		
Germany	502	526	395	626	1,004		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0		
Ireland		0	20	12	15		
<b>Third-party sources - Municipal water supplies or utilities: ML</b>	<b>18</b>	<b>51</b>	<b>49</b>	<b>38</b>	<b>29</b>		<b>303-1</b>
Canada	7	15	19	13	7		
France	10	7	0	6	6		
Netherlands	0	26	8	4.6	5.4		
Australia	0	0	0	0	0		
United States	1	0	0	0.3	0.3		
Germany	0	0	2.2	1.2	0.7		
Central and Eastern Europe - Hungary and Croatia		1	4	1.6	0.9		
Ireland		2	16	11.5	9.4		
<b>Total Freshwater Withdrawal = renewable groundwater + surface water + third party potable sources: ML</b>	<b>598</b>	<b>767</b>	<b>715</b>	<b>741</b>	<b>590</b>		
<b>Total freshwater intensity: ML/operated boe</b>		<b>0.000026</b>	<b>0.000016</b>	<b>0.000018</b>	<b>0.000016</b>		
<b>Water sources significantly affected by water withdrawal: #</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	Defined as a sustained inability to meet human and/or ecological requirements based on availability, quality or accessibility	<b>303-2</b>
<b>Water recycled and reused = reduction in water use: ML</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>303-2</b>
<b>Water recycled and reused: %</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	Based on water withdrawals excluding produced water	<b>303-3</b>
<b>WATER DISCHARGE</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	Beginning with our 2019 data, we are tracking water discharge aligned with CDP definitions of destinations.	
<b>Total water discharge all destinations, including produced water: ML</b>			<b>70,158</b>	<b>67,203</b>	<b>65,603</b>		
Canada			39,234	34,847	31,638		
France			14,863	13,903	13,709		
Netherlands			25.4	24.6	12.9		
Australia			15,270	17,386	18,912		
United States			326	384	302		
Germany			397	630	1,005		
Central and Eastern Europe - Hungary and Croatia			4	3.9	0.9		
Ireland			36	24	24		
<b>Total water discharge excluding produced water: ML</b>	<b>8,269</b>	<b>8,896</b>	<b>6,484</b>	<b>7,667</b>	<b>9,168</b>		
Canada	0	15	181	136	154		
France	0	0	0	0	0		
Netherlands	51	58	20	4.6	3		
Australia	8,217	8,795	6,189	7,398	8,949		
United States	0	0	51	109	51		
Germany	0	0	3	4	0.7		
Central and Eastern Europe - Hungary and Croatia		0	4	4	0.9		
Ireland		28	36	12	9		
<b>Surface/Freshwater, including rainwater, wetlands, rivers, lakes: ML</b>			<b>0</b>	<b>0</b>	<b>0</b>		
<b>Surface/Brackish water, including oceans: ML</b>			<b>15,272</b>	<b>17,386</b>	<b>18,912</b>		
Australia			15,270	17,386	18,912		
Ireland			2.1	0	0	No produced water discharged offshore in 2020 or 2021	
<b>Groundwater - renewable: ML</b>			<b>3</b>	<b>2</b>	<b>11</b>		

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Canada			3	2	11		
France			0	0	0		
Netherlands			0	0	0		
Australia			0	0	0		
United States			0	0	0		
Germany			0	0	0		
Central and Eastern Europe - Hungary and Croatia			0	0	0		
Ireland			0	0	0		
<b>Groundwater - non-renewable, excluding produced water: ML</b>			<b>0</b>	<b>0</b>	<b>0</b>		
United States			0	109	32		
<b>Groundwater - non-renewable, produced water: ML</b>			<b>54,592</b>	<b>48,910</b>	<b>46,005</b>		
Canada			39,053	34,681	31,442		
France			14,863	13,322	13,289		
Netherlands			5	6	0.02		
Australia			0	0	0		
United States			276	275	270		
Germany			395	626	1,004		
Central and Eastern Europe - Hungary and Croatia			0	0	0		
Ireland			0	0	0		
<b>Third-party facilities - Municipal or Private: ML</b>			<b>289</b>	<b>792</b>	<b>643</b>		
Canada			178	165	184		
France			0	581	420		
Netherlands			20	19	13		
Australia			0	0	0		
United States			51	0.5	0.5		
Germany			2.2	1.7	0.7		
Central and Eastern Europe - Hungary and Croatia			4	1.6	0.9		
Ireland			34	24	24		
<b>Other - Water still in storage - NL only</b>			<b>0</b>	<b>0</b>	<b>2</b>		
<b>Water bodies significantly affected by discharges of water</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Defined as a sustained inability to meet human and/or ecological requirements based on availability, quality or accessibility</b>	<b>306-5</b>
<b>Volume and % of produced water by disposal method:</b>							<b>OG5</b>
Reused: % and volume	0	0	0	0	0		<b>OG5</b>
Recycled: %	0	0	0	0	0		
Recycled - volume: ML	0	1	0	0	0		<b>OG5</b>
Canada	0	0	0	0	0		
France	0	0	0	0	0		
Netherlands	0	0	0	0	0		
Australia	0	0	0	0	0		
United States	0	0	0	0	0		
Germany	0	1	0	0	0		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0		
Ireland		0	0	0	0		
<b>Reinjected: %</b>	<b>67</b>	<b>79</b>	<b>86</b>	<b>83</b>	<b>82</b>		
<b>Reinjected - volume: ML</b>	<b>16,796</b>	<b>33,450</b>	<b>54,037</b>	<b>48,840</b>	<b>46,028</b>		<b>OG5</b>
Canada	2,338	17,728	39,047	34,711	31,484		
France	13,903	15,105	14,370	13,222	13,289		

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Netherlands	4	9	5	6	0.02		
Australia	0	0	0	0	0		
United States	49	83	221	275	251		
Germany	502	526	395	626	1,004		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0		
Ireland		0	0	0	0		
Hydrocarbon discharged within produced water: tonnes	115	70	73	117	99	Refers to discharges to surface water or renewable (shallow) groundwater	OG5
Canada	0	0	0	0	0		OG6
France	0	0	0	0	0		OG6
Netherlands	0	0	0	0	0		OG6
Australia	115	70	73	117	99		OG6
United States	0	0	0	0	0		OG6
Germany	0	0	0	0	0		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0		
Ireland		0.4	0	0	0		
Annual Water Consumption: ML			0	0	0	Total water withdrawals - total water discharges	
Percentage of workers with fully-functioning, safely managed WASH (water, sanitation and hygiene facilities)			100	100	100	New data reported beginning in 2019 to align with CDP	