



AB-1305 Voluntary carbon market disclosures

VCS 2250 - Delta Blue Carbon - 1 – The Indus Delta Mangrove Restoration Project Phase 1

Information updated as of January 2024

AB-1350 disclosure requirement	VCS 2250 - Delta Blue Carbon - 1 – The Indus Delta Mangrove Restoration Project Phase 1																																																																																																												
4475. (a) (1) The specific protocol used to estimate emissions reductions or removal benefits.	VCS VM0033 Methodology for Tidal Wetland and Seagrass Restoration, v2.0																																																																																																												
4475. (a) (2) The location of the offset project site.	Sindh Province, Pakistan																																																																																																												
4475. (a) (3) The project timeline.	19 February 2015 to 18 February 2075																																																																																																												
4475. (a) (4) The date when the project started or will start.	19 February 2015																																																																																																												
4475. (a) (5) The dates and quantities when a specified quantity of emissions reductions or removals started or will start, or was modified or reversed.	<table border="1"> <thead> <tr> <th data-bbox="807 913 906 1025">Project year</th> <th data-bbox="906 913 1038 1025">Calendar year</th> <th data-bbox="1038 913 1249 1025">Forecast of GHG emission reductions or removals (tCO₂e)</th> <th data-bbox="1249 913 1460 1025">Date of initial forecast (Date of forecast modification)</th> </tr> </thead> <tbody> <tr><td>1</td><td>2015</td><td>37,719</td><td>11-Aug-2021 (-)</td></tr> <tr><td>2</td><td>2016</td><td>192,432</td><td>11-Aug-2021 (-)</td></tr> <tr><td>3</td><td>2017</td><td>462,307</td><td>11-Aug-2021 (-)</td></tr> <tr><td>4</td><td>2018</td><td>785,003</td><td>11-Aug-2021 (-)</td></tr> <tr><td>5</td><td>2019</td><td>918,916</td><td>11-Aug-2021 (-)</td></tr> <tr><td>6</td><td>2020</td><td>1,580,348</td><td>11-Aug-2021 (-)</td></tr> <tr><td>7</td><td>2021</td><td>2,060,015</td><td>11-Aug-2021 (-)</td></tr> <tr><td>8</td><td>2022</td><td>2,673,162</td><td>11-Aug-2021 (-)</td></tr> <tr><td>9</td><td>2023</td><td>3,419,415</td><td>11-Aug-2021 (-)</td></tr> <tr><td>10</td><td>2024</td><td>3,818,606</td><td>11-Aug-2021 (-)</td></tr> <tr><td>11</td><td>2025</td><td>5,144,231</td><td>11-Aug-2021 (-)</td></tr> <tr><td>12</td><td>2026</td><td>5,958,777</td><td>11-Aug-2021 (-)</td></tr> <tr><td>13</td><td>2027</td><td>6,619,386</td><td>11-Aug-2021 (-)</td></tr> <tr><td>14</td><td>2028</td><td>7,055,399</td><td>11-Aug-2021 (-)</td></tr> <tr><td>15</td><td>2029</td><td>6,819,447</td><td>11-Aug-2021 (-)</td></tr> <tr><td>16</td><td>2030</td><td>7,367,384</td><td>11-Aug-2021 (-)</td></tr> <tr><td>17</td><td>2031</td><td>7,311,935</td><td>11-Aug-2021 (-)</td></tr> <tr><td>18</td><td>2032</td><td>7,155,761</td><td>11-Aug-2021 (-)</td></tr> <tr><td>19</td><td>2033</td><td>6,924,172</td><td>11-Aug-2021 (-)</td></tr> <tr><td>20</td><td>2034</td><td>4,716,942</td><td>11-Aug-2021 (-)</td></tr> <tr><td>21</td><td>2035</td><td>6,318,149</td><td>11-Aug-2021 (-)</td></tr> <tr><td>22</td><td>2036</td><td>5,976,914</td><td>11-Aug-2021 (-)</td></tr> <tr><td>23</td><td>2037</td><td>5,624,547</td><td>11-Aug-2021 (-)</td></tr> <tr><td>24</td><td>2038</td><td>5,269,362</td><td>11-Aug-2021 (-)</td></tr> <tr><td>25</td><td>2039</td><td>2,924,970</td><td>11-Aug-2021 (-)</td></tr> <tr><td>26</td><td>2040</td><td>4,575,793</td><td>11-Aug-2021 (-)</td></tr> </tbody> </table>	Project year	Calendar year	Forecast of GHG emission reductions or removals (tCO ₂ e)	Date of initial forecast (Date of forecast modification)	1	2015	37,719	11-Aug-2021 (-)	2	2016	192,432	11-Aug-2021 (-)	3	2017	462,307	11-Aug-2021 (-)	4	2018	785,003	11-Aug-2021 (-)	5	2019	918,916	11-Aug-2021 (-)	6	2020	1,580,348	11-Aug-2021 (-)	7	2021	2,060,015	11-Aug-2021 (-)	8	2022	2,673,162	11-Aug-2021 (-)	9	2023	3,419,415	11-Aug-2021 (-)	10	2024	3,818,606	11-Aug-2021 (-)	11	2025	5,144,231	11-Aug-2021 (-)	12	2026	5,958,777	11-Aug-2021 (-)	13	2027	6,619,386	11-Aug-2021 (-)	14	2028	7,055,399	11-Aug-2021 (-)	15	2029	6,819,447	11-Aug-2021 (-)	16	2030	7,367,384	11-Aug-2021 (-)	17	2031	7,311,935	11-Aug-2021 (-)	18	2032	7,155,761	11-Aug-2021 (-)	19	2033	6,924,172	11-Aug-2021 (-)	20	2034	4,716,942	11-Aug-2021 (-)	21	2035	6,318,149	11-Aug-2021 (-)	22	2036	5,976,914	11-Aug-2021 (-)	23	2037	5,624,547	11-Aug-2021 (-)	24	2038	5,269,362	11-Aug-2021 (-)	25	2039	2,924,970	11-Aug-2021 (-)	26	2040	4,575,793	11-Aug-2021 (-)
Project year	Calendar year	Forecast of GHG emission reductions or removals (tCO ₂ e)	Date of initial forecast (Date of forecast modification)																																																																																																										
1	2015	37,719	11-Aug-2021 (-)																																																																																																										
2	2016	192,432	11-Aug-2021 (-)																																																																																																										
3	2017	462,307	11-Aug-2021 (-)																																																																																																										
4	2018	785,003	11-Aug-2021 (-)																																																																																																										
5	2019	918,916	11-Aug-2021 (-)																																																																																																										
6	2020	1,580,348	11-Aug-2021 (-)																																																																																																										
7	2021	2,060,015	11-Aug-2021 (-)																																																																																																										
8	2022	2,673,162	11-Aug-2021 (-)																																																																																																										
9	2023	3,419,415	11-Aug-2021 (-)																																																																																																										
10	2024	3,818,606	11-Aug-2021 (-)																																																																																																										
11	2025	5,144,231	11-Aug-2021 (-)																																																																																																										
12	2026	5,958,777	11-Aug-2021 (-)																																																																																																										
13	2027	6,619,386	11-Aug-2021 (-)																																																																																																										
14	2028	7,055,399	11-Aug-2021 (-)																																																																																																										
15	2029	6,819,447	11-Aug-2021 (-)																																																																																																										
16	2030	7,367,384	11-Aug-2021 (-)																																																																																																										
17	2031	7,311,935	11-Aug-2021 (-)																																																																																																										
18	2032	7,155,761	11-Aug-2021 (-)																																																																																																										
19	2033	6,924,172	11-Aug-2021 (-)																																																																																																										
20	2034	4,716,942	11-Aug-2021 (-)																																																																																																										
21	2035	6,318,149	11-Aug-2021 (-)																																																																																																										
22	2036	5,976,914	11-Aug-2021 (-)																																																																																																										
23	2037	5,624,547	11-Aug-2021 (-)																																																																																																										
24	2038	5,269,362	11-Aug-2021 (-)																																																																																																										
25	2039	2,924,970	11-Aug-2021 (-)																																																																																																										
26	2040	4,575,793	11-Aug-2021 (-)																																																																																																										



	27	2041	4,247,028	11-Aug-2021 (-)
	28	2042	3,932,420	11-Aug-2021 (-)
	29	2043	3,633,445	11-Aug-2021 (-)
	30	2044	1,345,412	11-Aug-2021 (-)
	31	2045	3,086,866	11-Aug-2021 (-)
	32	2046	2,841,134	11-Aug-2021 (-)
	33	2047	2,612,042	11-Aug-2021 (-)
	34	2048	2,399,011	11-Aug-2021 (-)
	35	2049	185,491	11-Aug-2021 (-)
	36	2050	2,019,874	11-Aug-2021 (-)
	37	2051	1,853,735	11-Aug-2021 (-)
	38	2052	1,700,600	11-Aug-2021 (-)
	39	2053	481,986	11-Aug-2021 (-)
	40	2054	0	11-Aug-2021 (-)
	41	2055	0	11-Aug-2021 (-)
	42	2056	0	11-Aug-2021 (-)
	43	2057	0	11-Aug-2021 (-)
	44	2058	0	11-Aug-2021 (-)
	45	2059	0	11-Aug-2021 (-)
	46	2060	0	11-Aug-2021 (-)
	47	2061	0	11-Aug-2021 (-)
	48	2062	0	11-Aug-2021 (-)
	49	2063	0	11-Aug-2021 (-)
	50	2064	0	11-Aug-2021 (-)
	51	2065	0	11-Aug-2021 (-)
	52	2066	0	11-Aug-2021 (-)
	53	2067	0	11-Aug-2021 (-)
	54	2068	0	11-Aug-2021 (-)
	55	2069	0	11-Aug-2021 (-)
	56	2070	0	11-Aug-2021 (-)
	57	2071	0	11-Aug-2021 (-)
	58	2072	0	11-Aug-2021 (-)
	59	2073	0	11-Aug-2021 (-)
	60	2074	0	11-Aug-2021 (-)
	Total estimated ERs (including buffer)		142,050,139	11-Aug-2021 (-)
	Average annual ERs		2,407,629	11-Aug-2021 (-)
4475. (a) (6) The type of project, including whether the offsets from the project are derived from a carbon removal, and avoided emission, or, in the case of a project with both carbon removals and avoided emissions, the breakdown of offsets from each.	Removals			
4475. (a) (7) Whether the project meets any standards established by law or by a nonprofit entity.	Verified Carbon Standard (VCS); The Climate, Community & Biodiversity Standards (CCB).			



<p>4475. (a) (8) The durability period for any project that the seller knows or should know that the durability of the project's greenhouse gas reductions or greenhouse gas removal enhancements is less than the atmospheric lifetime of carbon dioxide emissions.</p>	<p>60 years</p>																								
<p>4475. (a) (9) Whether there is independent expert or third-party validation or verification of the project attributes.</p>	<p>Yes, validated and verified by an independent third-party.</p>																								
<p>4475. (a) (10) Emissions reduced or carbon removed on an annual basis.</p>	<table border="1"> <thead> <tr> <th>Calendar year</th> <th>VER (tCO₂e)</th> <th>Date of verified Monitoring Report</th> </tr> </thead> <tbody> <tr> <td>2015</td> <td>8,843</td> <td>04-Mar-2022</td> </tr> <tr> <td>2016</td> <td>17,165</td> <td>04-Mar-2022</td> </tr> <tr> <td>2017</td> <td>116,871</td> <td>04-Mar-2022</td> </tr> <tr> <td>2018</td> <td>186,481</td> <td>04-Mar-2022</td> </tr> <tr> <td>2019</td> <td>350,126</td> <td>04-Mar-2022</td> </tr> <tr> <td>2020</td> <td>914,007</td> <td>04-Mar-2022</td> </tr> <tr> <td>2021</td> <td>1,553,947</td> <td>04-Mar-2022</td> </tr> </tbody> </table>	Calendar year	VER (tCO ₂ e)	Date of verified Monitoring Report	2015	8,843	04-Mar-2022	2016	17,165	04-Mar-2022	2017	116,871	04-Mar-2022	2018	186,481	04-Mar-2022	2019	350,126	04-Mar-2022	2020	914,007	04-Mar-2022	2021	1,553,947	04-Mar-2022
Calendar year	VER (tCO ₂ e)	Date of verified Monitoring Report																							
2015	8,843	04-Mar-2022																							
2016	17,165	04-Mar-2022																							
2017	116,871	04-Mar-2022																							
2018	186,481	04-Mar-2022																							
2019	350,126	04-Mar-2022																							
2020	914,007	04-Mar-2022																							
2021	1,553,947	04-Mar-2022																							
<p>4475. (b)) Details regarding accountability measures if a project is not completed or does not meet the projected emissions reductions or removal benefits, including, but not limited to, details regarding what actions the entity, either directly or by contractual obligation, shall take under both of the following circumstances: (1) If carbon storage projects are reversed. (2) If future emissions reductions do not materialize.</p>	<p>VCS provisions: Where GHG emission reductions or removals are generated by projects or programs that carry a risk of reversibility, adequate safeguards shall be put in place by the Project Developer to ensure that the risk of reversal is minimized and that, should any reversal occur, a mechanism is in place that guarantees the reductions or removals will be replaced or compensated.</p> <p>The non-permanence risk associated with certain project activities are addressed by VCS by requiring projects to set aside non-tradable buffer credits to cover unforeseen losses in carbon stocks. The buffer credits are held in a single pooled buffer account, which can be drawn upon in the event of a reversal in carbon stocks in any individual project.</p> <p>Where a loss event or a reversal occurs resulting in the reversal of a specific amount of reductions or removals achieved and granted to date to a project, buffer credits would be cancelled in the same amount to cover the reversal.</p> <p>Where a project fails to submit a verification report to the VCS registry within five years of its last verification, 50 percent of the buffer credits associated with the project shall be put on hold. Where a project fails to submit a verification report within ten years, all its remaining buffer credits shall be put on hold. Where no subsequent verification report has been submitted within a period of 15 years, and the project crediting period has not yet expired, buffer credits are cancelled from the pooled buffer account in an amount equivalent to the total number of credits issued to the project (including buffer credits put on hold) and the project's status will be changed to inactive.</p>																								
<p>The pertinent data and calculation methods needed to independently reproduce and verify the number of emissions reduction or removal credits issued using the protocol.</p>	<p>All data and calculation methods needed to independently reproduce and verify the number of emissions reduction or</p>																								

	removal credits issued, as disclosed by the project owner, can be found at:
--	---

<https://registry.verra.org/app/projectDetail/VCS/2250>

THE SITE, AND ANY CONTENT, INFORMATION, SERVICES OR PRODUCTS OBTAINED THROUGH THE SITE IS PROVIDED "AS IS," WITH ALL FAULTS, WITH NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON- INFRINGEMENT.