

Taproot Rockies Midstream  
Big Mountain Viper Produced Water Release  
Remediation Project Number 28120  
Briggsdale, Colorado

**Table 2. 2024 Delineation and Confirmation Sample Results**

Station Name	CAS Number	Units	Residential Soil Screening Level Concentrations	SB1	SB1	SB2	SB2	SB3	SB3	SB4	SB4	SB5	SB5	SB6	SB6	SB7	SB8	SB8
Sample Date				8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024	8/29/2024
Sample Depth				4 ft	7 ft	4 ft	6 ft	4 ft	7 ft	4 FT	7 ft	4 ft	5 ft	2 ft	4 ft	4 ft	2 ft	4 ft
<b>Metals</b>																		
CALCIUM	7440-70-2	mg/l		<b>3.28</b>	<b>3.32</b>	<b>6.99</b>	<b>5.58</b>	<b>1.54</b>	<b>5.91</b>	<b>4.57</b>	<b>7.51</b>	<b>8.83</b>	<b>15.6</b>	<b>5.83</b>	<b>14.2</b>	<b>2.35</b>	<b>1.6</b>	<b>1.54</b>
MAGNESIUM	7439-95-4	mg/l		<b>0.95</b>	<b>0.831</b>	<b>1.57</b>	<b>1.24</b>	ND	<b>1.34</b>	<b>0.941</b>	<b>1.51</b>	<b>1.74</b>	<b>2.9</b>	<b>1.23</b>	<b>3.01</b>	ND	ND	ND
SODIUM	7440-23-5	mg/l		<b>3.37</b>	<b>7.48</b>	<b>10.9</b>	<b>9.44</b>	<b>4.73</b>	<b>9.3</b>	<b>8.19</b>	<b>10.1</b>	<b>11.8</b>	<b>13.5</b>	<b>10.3</b>	<b>17.2</b>	<b>6.67</b>	<b>1.89</b>	<b>2.94</b>
<b>Soil Suitability for Reclamation**</b>																		
BORON	7440-42-8	mg/l	2	<b>0.333</b>	<b>0.338</b>	<b>1.47</b>	<b>0.648</b>	<b>1.16</b>	<b>0.456</b>	<b>1.40</b>	<b>0.687</b>	<b>1.65</b>	<b>1.20</b>	<b>0.629</b>	<b>1.58</b>	<b>0.984</b>	<b>0.491</b>	<b>1.46</b>
PH	NA	s.u.	6 - 8.3	<b>8.32</b>	<b>8.33</b>	<b>8.29</b>	<b>8.32</b>	<b>8.42</b>	<b>8.19</b>	<b>8.25</b>	<b>8.2</b>	<b>8.39</b>	<b>8.14</b>	<b>8.31</b>	<b>8.15</b>	<b>8.55</b>	<b>8.64</b>	<b>8.52</b>
SODIUM ADSORPTION RATIO	NA	NA	6	<b>2.32</b>	<b>5.19</b>	<b>5.27</b>	<b>5.12</b>	<b>4.9</b>	<b>4.88</b>	<b>4.93</b>	<b>4.74</b>	<b>5.15</b>	<b>4.45</b>	<b>5.47</b>	<b>5.87</b>	<b>5.53</b>	<b>1.96</b>	<b>3.08</b>
SPECIFIC CONDUCTANCE	NA	mmhos/cm	4	<b>0.959</b>	<b>1.4</b>	<b>2.09</b>	<b>1.77</b>	<b>0.827</b>	<b>1.99</b>	<b>1.76</b>	<b>2.22</b>	<b>2.4</b>	<b>3.21</b>	<b>2.29</b>	<b>3.59</b>	<b>1.15</b>	<b>0.431</b>	<b>0.594</b>

**NOTES:**

Boldface type indicates the analyte was detected above the reporting limit.

Highlighted text indicates an exceedance of either the protection of groundwater soil screening level or residential soil screening level.

\*\* Where RSSL or protection of groundwater screening level is not present, Table 915-1 Cleanup Concentrations are used.

-- No standard established.

NA Not applicable.

NS Not sampled.

BS indicates a background sample collected from unaffected soil nearby.

FS indicates a sample collected from the floor of an excavation.

SS indicates a surface sample collected from the area of shallow excavation with limited impact from produced water.

SW indicates a sample collected from the sidewall of an excavation.