

1 **APPENDIX F – DRAFT IMPAIRMENT DETERMINATION**

2 The NPS has determined that the implementation of the NPS preferred alternative would not constitute
3 impairment to the resources or values of Fort Stanton Park. This conclusion is based on consideration of
4 the thorough analysis of the environmental impacts described in the EA, relevant scientific studies and
5 other, and the professional judgment of the decision-maker guided by the direction in NPS *Management*
6 *Policies* 2006. As described in the EA, implementation of the NPS preferred alternative would not result
7 in impairment of park resources or values whose conservation is (1) necessary to fulfill specific purposes
8 identified in the park’s establishing legislation, (2) key to the natural or cultural integrity of the park or to
9 opportunities for enjoyment of the park, or (3) identified in the park’s management plan or other relevant
10 NPS planning documents as being significance.

11 Alternative 2 (NPS Preferred Alternative) would result in short-term to long-term negligible to moderate
12 adverse impacts on some of the park’s resources, which include soils, water resources, water quality,
13 wetlands, vegetation, wildlife, and scenic resources.

14 **FINDINGS ON IMPAIRMENT FOR THE SLOPE REPAIR, STABILIZATION, AND**
15 **ENVIRONMENTAL RESTORATION**

16 **Preferred Alternative**

17 **Soils** – 0.43 acres of soil has been impacted by the embankment failure. Soils in the area of the failure are
18 unstable and exposed to the elements, as all vegetation has been unearthed. As a result, soils have been
19 eroding down the embankment. Soil is necessary to fulfill the purpose for which the park was
20 established. Without soils, there would be no park. Soils are key to the natural integrity of the park. .
21 Short-term minor adverse impacts to soils are anticipated during the construction phase of the slope
22 stabilization and would be mitigated through wise construction practices, as discussed in the *Mitigation*
23 *Measures of the Action Alternatives* section of this EA. The preferred alternative would not result in
24 impairment of soils because long-term impacts are identified as beneficial. Soils would not be impaired
25 within the project area after the completion of the preferred alternative. Soils would be more stable than
26 before the embankment failure and would be less likely for future failures.

27 **Water Resources** – Water resources within the reservoir compound include the maintenance of
28 stormwater, specifically at the location of the embankment failure. Water resources associated with
29 stormwater is not necessary to fulfill the purpose for which the park was established. It is not key to the
30 natural integrity of the park. Short-term minor adverse impacts from water resources are anticipated
31 during the construction phase of the slope stabilization and would be mitigated through wise construction
32 practices, as discussed in the *Mitigation Measures of the Action Alternatives* section of this EA. The
33 preferred alternative would not result in impairment of water resources because water resources would
34 not be impacted long-term by the preferred alternative.

35 **Water Quality** – Water quality within the reservoir compound has the potentially to be impacted by the
36 embankment failure. The surface water located down gradient from the project area has the potential to
37 receive excess runoff materials due to erosion if the embankment is not stabilized, thus potentially
38 degrading water quality. In addition, stormwater percolation down to groundwater may be disrupted due
39 to the lack of stable soils and vegetation in the area of the embankment failure. Water quality is necessary
40 to fulfill the purpose for which the park was established. Water quality is key to the natural integrity of
41 the park. Short-term minor adverse impacts to water quality is anticipated during the construction phase

1 of the slope stabilization and would be mitigated through wise construction practices, as discussed in the
2 *Mitigation Measures of the Action Alternatives* section of this EA. The preferred alternative would not
3 result in impairment of water quality because water quality would not be impacted long-term by the
4 preferred alternative.

5 **Wetlands** – Wetlands are not identified within the project area, but are located down-slope from the
6 project area. Wetlands are necessary to fulfill the purpose for the park within the natural management
7 zone. Wetlands are key to the natural integrity of the park. The preferred alternative would not result in
8 impairment of wetlands because the proposed action is not located in a wetland area, nor would the
9 preferred alternative impact the wetlands located down gradient, away from the project area. Wetlands
10 areas would only be impacted by the no action alternative. Under the no action alternative, soils and
11 vegetation could continue to erode down slope and potentially deposit in the wetland area.

12 **Vegetation** – The existing slope embankment failure denuded an area of natural forest vegetation.
13 Vegetation was displaced approximately 100 feet from the failure location into a wooded area. Vegetation
14 is necessary to fulfill the purpose for which the park was established. Short-term minor adverse impacts
15 to vegetation is anticipated during the construction phase of the slope stabilization and would be mitigated
16 through wise construction practices, as discussed in the *Mitigation Measures of the Action Alternatives*
17 section of this EA. The preferred alternative would not result in impairment to vegetation because over
18 the long-term, vegetation would benefit after the completion of the stabilization process.

19 **Wildlife** – The existing slope embankment failure adversely impacted local forested wildlife habitats.
20 Wildlife is necessary to fulfill the purpose for which the park was established. Short-term minor impacts
21 to wildlife is anticipated during the construction phase of the slope stabilization and would be mitigated
22 through wise construction practices, as discussed in the *Mitigation Measures of the Action Alternatives*
23 section of this EA. The preferred alternative would not result in impairment to wildlife because it would
24 improve habitat that was impacted due to the slope failure.

25 **Scenic Resources** – 0.43 acres of denude embankment may be seen by park visitor under the current
26 embankment failure conditions. The findings of the viewshed analysis indicate that the location of the
27 embankment failure is visible from several public-access areas of the park including the access road
28 (looking north), the pool (looking north), and all areas east of the access road (looking north). The
29 viewshed analysis also indicates that the location of the embankment failure is visible to areas outside of
30 Fort Stanton Park including the residential properties located to the northeast of Fort Stanton on Skyland
31 Terrance (looking west) and the properties located southeast of Fort Stanton on Bruce Place (looking
32 northwest). Scenic resources are necessary to fulfill the purpose for which the park was established.
33 Short-term minor impacts to scenic resources are anticipated during the construction phase of the slope
34 stabilization and would be mitigated through wise construction practices, as discussed in the *Mitigation*
35 *Measures of the Action Alternatives* section of this EA. The preferred alternative would not result in
36 impairment to scenic resources because it would restore the viewshed of the project area back to its
37 natural state as previously scene prior to the embankment failure.

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