**NBIS Reference**

23 CFR 650.313 (e) & (e)(1) – Bridges requiring underwater (UW) inspections

1. **Bridge Identification**

|  |  |
| --- | --- |
| A. County-Route-Log-SD & SFN |  |
| B. Feature Intersected |  |
| C. River Mile Marker |  |
| D. Main Structure Type |  |
| E. Approach Structure Type |  |

1. **Location of Underwater Elements Description**

Include the Abutment, Pier and Foundation Type(s) and Frequency of Dive Inspection for each item if more than 60 months. Photo, sketch or description are all acceptable.

1. Risk Factors for Inspector (safety)
2. Anticipated Channel Conditions
3. Waterway obstructions
4. Rapid stream flows
5. Significant debris accumulation
6. History of Log jams
7. Constricted waterway openings
8. Soft or unstable streambeds
9. Meandering channels
10. Navigable waterway
11. Dive Depth Range:
12. Anticipated Water Conditions
	1. Water Type: \_\_\_\_\_ Salt \_\_\_ Fresh \_\_\_ Brackish \_\_\_other
	2. Water Visibility \_\_\_\_\_ ft
	3. Water Surface: \_\_\_\_\_ Calm\_\_\_ Choppy \_\_\_ Rough
	4. Tide \_\_\_ High \_\_\_ Low \_\_\_ Flood \_\_\_ Ebb \_\_\_ NA
	5. Current \_\_\_ Fast \_\_\_ Moderate \_\_\_ Slow
	6. Near Military Facility
	7. Tribal Fishing
	8. Water Quality
13. Identify factors that may accelerate the deterioration of the bridge elements:
	1. Highly corrosive water
	2. Unprotected steel members
	3. Timber piling with teredos or limnoria
	4. Scour Critical (item 113): \_\_\_\_\_\_\_\_
	5. Is there a Scour Critical Plan of Action in Place?
		1. Date Begin:
		2. Date End:
	6. Scour Monitoring devices present: Y/N
	7. Any which may promote scour and undermining of substructure elements
	8. \_\_\_\_Other
14. Detail Inspection Methods and Equipment
15. The inspection should be conducted using:
16. Chest waders
17. Hip waders
18. Diving equipment
19. SCUBA
20. SCUBA with communication
21. Surface Supplied air with communication
22. The channel bottom should be sounded utilizing
23. Digital fathometer
24. Telescoping survey rod
25. Acoustic imaging
26. During the inspection, the divers should work from
27. Shore
28. Boat
29. Either
30. A note taker should work
31. On shore
32. In the boat
33. Location for boat launch
34. The maximum depth of the channel is typically:
35. Reference Datum\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
36. Soundings should be recorded
37. Along the centerline
38. Along fascia, circle: US/DS
39. Along the submerged substructure units
40. Culvert centerline and along both fascias
41. Grid pattern between substructure units
42. Additional soundings recorded at:
43. Upstream
44. Downstream
45. Contacts
46. Notify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in Emergency
47. Contact List and Stakeholders

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity** | **Contact Name and Title** | **Contact Phone or Email** | **Lead Time** |
| US Coast Guard |  |  |  |
| Property Owner for Access |  |  |  |
| Access Equipment |  |  |  |
| Lake or River draw-down |  |  |  |
| Canal dry time |  |  |  |
| Tree removal |  |  |  |
| Bridge Tender |  |  |  |
|  |  |  |  |