Port of Anacortes Engineering and Institutional Controls Report Year 5 – 2019

Cap Sante Marine Site Anacortes, WA Ecology Consent Decree No. 9917

for Washington State Department of Ecology September 12, 2019



Port of Anacortes 100 Commercial Avenue Anacortes, WA 98221

Port of Anacortes 100 Commercial Avenue Anacortes, WA 98221



September 12, 2019

Washington State Department of Ecology PO Box 47600 Olympia, Washington 98504-7600

Attention: Arianne Fernandez

Subject: Engineering and Institutional Controls Monitoring Report – Year 5 – 2019 Cap Sante Marine Site Anacortes, Washington Ecology Consent Decree No. 9917

INTRODUCTION

This report presents a summary of the fifth annual engineering and institutional controls monitoring activities for the Cap Sante Marine Site (Site) located in Anacortes, Washington. The Site includes portions of the Former Cap Sante Marine Lease Area and Fisherman's Work and Parking Area. The Site is referenced in the Washington State Department of Ecology (Ecology) databases as the Cap Sante Marine Site (Ecology Facility/Site Identification No. 67532227) and is subject to a restrictive covenant recorded with the Skagit County Auditor on August 5, 2014 (Recoding No. 201408050034). Monitoring and maintenance activities are being performed by the Port of Anacortes (Port) pursuant to the Ecology-approved Engineering and Institutional Controls Monitoring Plan (EICMP; GeoEngineers, 2014) to prevent human and terrestrial wildlife exposure to residual contamination exceeding cleanup levels that remains in-place at the Site, as described in Ecology's Cleanup Action Plan (CAP; Ecology 2013).

The location of the Site relative to surrounding physical features is shown on Figure 1. Current Site conditions and the locations of Monitoring and Maintenance Area A and B are shown on Figure 2. Site history including previous use, area redevelopment and cleanup actions implemented as well as, engineering and institutional controls established to prevent human/terrestrial wildlife exposure is summarized in the EICMP. Monitoring activities are summarized below.

MONITORING AND MAINTENANCE PROGRAM

Monitoring and maintenance of site controls consist of routine reconnaissance visits and performing corrective actions as necessary to address conditions that may compromise the integrity of the protective barriers that are isolating residual Site contamination within Monitoring and Maintenance Areas A and B (Figure 2). Monitoring activities are being performed on an annual basis unless non routine activities such as maintenance work that disturbs subsurface soil or other activities/events occur that could potentially compromise the integrity of the protective barriers within these areas.

The monitoring program consists of 1) reviewing as-built plans and/or base maps of the Site layout and surrounding area; 2) reviewing previous monitoring reports and maintenance records; and 3) conducting a visual reconnaissance of Monitoring and Maintenance Areas A and B by walking the perimeter of these areas and completing multiple transects on a 20-foot minimum spacing to observe signs of breaching, cracking, deformation and/or erosion of the surface areas and signs of sheen along shoreline in the eastern portion of Monitoring and Maintenance Area A as well as evidence of any other anomalies or non-routine activities that may compromise the integrity of the protective barriers or result in the release of Site contaminants. Observed Site conditions for the baseline and first annual monitoring and maintenance event are summarized below.

SUMMARY OF OBSERVED SITE CONDITIONS – YEAR 5 MONITORING EVENT

Conditions within Monitoring and Maintenance Area A and B were evaluated during the August 2019 (Year 5) monitoring event. In accordance with the monitoring and maintenance program, visual reconnaissance along the perimeter and transects with these area was performed. The condition of the Site and visual observations are documented in the attached Engineering and Institutional Monitoring and Maintenance Report Form dated August 6, 2019 (Appendix A) and are generally similar to the previous conditions. Evidence of non-routine activities such as maintenance work resulting in disturbances to the soil, vegetation or paved surfaces potentially compromising the integrity of the protective barriers within these areas were not

observed. In addition, evidence of significant damage or instability to the protective barriers including paved/vegetated surfaces and armored shoreline as compared to the baseline monitoring event (described above) was not observed.

FUTURE MONITORING AND MAINTENANCE ACTIVITIES

Future monitoring activities will be continued at the Site in accordance with the EICMP. Conditions at the Site requiring maintenance/corrective actions were not identified during the August 2019 monitoring event. The Port will continue to observe site conditions and perform maintenance/corrective activities on an as needed basis to ensure the long-term integrity and performance of the protective barriers to prevent human/terrestrial wildlife exposure to residual contamination remaining in-place. Summaries of these activities will be submitted to Ecology on an annual basis.

REFERENCES

- GeoEngineers, Inc., "Engineering and Institutional Controls Plan, Cap Sante Marine Site, Anacortes, Washington, Ecology Consent Decree No. 9917," GEI File No. 5147-005-10, prepared for the Washington State Department of Ecology on behalf of Port of Anacortes, August 6, 2014.
- Washington State Department of Ecology (Ecology, 2013), "Cleanup Action Plan (CAP), Cap Sante Marine Site, Anacortes, Washington," by the Washington State Department of Ecology, Toxics Cleanup Program, Lacey, Washington, December 10, 2013.

Sincerely, Port of Anacortes

Sarah Tchang Environmental Specialist

Attachments: Figure 1. Vicinity Map Figure 2. Site Plan Appendix A. 2019 Engineering and Institutional Monitoring and Maintenance Report Form Appendix B. Monitoring and Maintenance Area A and B Photographs

FIGURES 1 AND 2 Vicinity Map and Site Plan



\5\5147005\GIS\514700510_F01_VM.mxd Date Exported: 10/25/16 by ccheff



APPENDIX A Engineering and Institutional Monitoring and Maintenance Report Form

Engineering and Institutional Controls Monitoring Report					
Site Name:	Date				
Cap Sante Marine Site		C	08/06/2019		
Monitoring Event Completed By (name, title, organization):					
Sarah Tchang, Environmental Specialist, Port of Anacortes					
A. General Instructions					
1. All checklist items must be completed and detailed comments made to document the results of the site controls evaluation.					
The completed checklist is part of the field record of the evaluation. Additional pages should be used (as necessary) to ensure a complete record is made. Number, date, initial and attach additional pages to this checklist upon completion.					
3. Any checklist line item marked in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The explanation should include the rational for conclusions and recommendations, if appropriate. Annotated the attached site maps as appropriate to provide additional detail.					
4. An evaluation of the site controls should consist of a complete site walk including the perimeter and multiple transects across the Site no greater than 20 feet apart to fully evaluate the condition of site controls and features specifically described in this checklist.					
5. Photographs of the site controls and/or site features should be taken to document the overall condition of the site. In addition, all anomalous features or new features (such as changes or damage to the exiting site controls) should also be photographed. Attach any photographs of the site to this checklist upon completion of the site evaluation.					
B. Preparation (to be completed prior to site visit)	YES	NO	EXPLANATION		
1. Site as-built plans and/or base maps reviewed?	Х				
2. Previous monitoring report reviewed?	Х				
a. Were anomalies or site changes identified on the previous report?		Х			
b. Was maintenance performed on areas with identified anomalies?			Not applicable – No previous maintenance/corrective actions		
3. Site Maintenance and repair records reviewed?			Not applicable – No previous maintenance/corrective actions		
a. Has site repair resulted in a change from as-build conditions?			Not applicable – No previous maintenance/corrective actions		
b. Are revised as-built drawings available that reflect repair changes?			Not applicable – No previous maintenance/corrective actions		
C. Evaluation of Controls (to be completed during site visit)	YES	NO	EXPLANATION		
1. Changes in adjacent property conditions?		Х			
a. Any change in adjacent property tenants?		Х			
b. Any change in property use /features?		Х			
c. Any utility and/or maintenance work completed?		Х			
d. Any erosion of adjacent property surfaces?		Х			
e. Changes in surrounding vegetation?		Х			
2. Changes in property conditions?		Х			
a. Any change in adjacent property ownership?		Х			
b. Any change in property tenant(s)?		Х			
c. Any change in property use /features?		Х			
d. Any utility, repair and/or maintenance work completed?	х		Parking lot striping has been reapplied, and asphalt parking lot repairs have been conducted in two stalls adjacent to the NCASI Building.		
3. Integrity of protective soil areas threatened?		Х			
a. Evidence of disturbance, excavation or grading?		Х			
b. Evidence of animal burrowing?		Х			
c. Evidence of erosion (wind or water)?		Х			
d. Change in vegetation cover?		Х			
e. Evidence of ponded water (excluding bioswale)?		Х			

		_			
Site Name:		Date:			
Cap Same Marine Site	VES	NO			
4 Integrity of protective payed (asphalt and concrete)		NO			
areas threatened?		Х			
a. Evidence of disturbance, excavation, grading?		Х			
b. Evidence of cracking?		Х			
c. Evidence of erosion/subsidence?		Х			
d. Evidence of ponded water?		Х			
f. Evidence of invasive plant species (weeds)?		Х			
5. Integrity of shoreline area threatened?		Х			
a. Evidence of disturbance, excavation, grading?		Х			
b. Evidence of erosion/subsidence?		Х			
c. Evidence of ponded water?		Х			
 Evidence of staining or sheens along shoreline? If yes, is the staining or sheen emanating from the Site? 		x			
g. If yes, is the staining or sheen emanating from the Site?		х			
6. Photographs taken documenting current Site conditions?	х				
D. Conclusions and Recommendations	YES	NO	EXPLANATION		
 Is there visual evidence of an imminent threat to the integrity of the soil, paved or shoreline areas? 		х			
2. Are follow-up site evaluations required?		Х			
3. Are existing maintenance/corrective actions satisfactory?			Not Applicable - No previous maintenance/corrective actions for the Site		
4. Are other maintenance/corrective actions necessary?		х			
 5. Corrective/Maintenance Action(s) Required: Required corrective and/or maintenance actions were not identified during the August 6, 2019 reconnaissance visit. 6. Corrective/Maintenance Action Implemented: 					
			Date Implemented:		
7. Additional Comments:					
Current conditions are shown on the attached Site Plan (Figures 1 and 2). Photographs representing the current conditions of Monitoring and Maintenance Areas A and B are attached.					
Signature:		Date:	08/06/2019		

APPENDIX B

Monitoring and Maintenance Area A and B Photographs





Photo A1: Protective asphalt barrier looking southeast from Control Point A1 (See Figure 1).



Photo A2: Protective asphalt barrier looking northeast from Control Point A2 (see Figure 1).



Photo A3: Protective asphalt barrier looking north (see Figure 1).



Photo A4: Protective stone revetment barrier looking northwest (see Figure 1).



Photo A5: Protective stone revetment barrier looking southwest (see Figure 1).



Photo A6: Protective asphalt barrier looking south (see Figure 1).



Photo A7: Protective asphalt barrier east of the utilities looking north (see Figure 1).



Photo A8: Protective asphalt barrier east of the utilities looking south (see Figure 1).





Photo B1: Protective vegetated topsoil barrier looking southeast (see Figure 2)



Photo B2: Protective vegetated topsoil and crushed gravel barriers looking north (see Figure 2)



Photo B3: Protective asphalt and crushed gravel barriers looking northeast (see Figure 2)



Photo B4: Protective asphalt barrier south of the office building (see Figure 2)



Photo B5: Protective asphalt barrier looking northwest from Control Point B1 (see Figure 2)



Photo B6: Protective crush gravel and topsoil barriers with fenced enclosure north of the office building (see Figure 2)



Photo B7: Protective crush gravel, topsoil and asphalt barriers north of the office building (see Figure 2)



Photo B8: Protective crush gravel and topsoil barriers with fenced enclosure north of the office building (see Figure 2)