Howard A. Hanson Dam Additional Water Storage Project

Section 902 Post Authorization Change Validation Study – Fish Passage King County, Washington

APPENDIX G PUBLIC INVOLVEMENT

Final Integrated Validation Report and Supplemental Environmental Impact Statement



US Army Corps of Engineers_® Seattle District



1 Introduction

This document responds to comments received on the Howard A. Hanson Dam (HAHD) Additional Water Storage Project (AWSP) Draft Validation Report/Supplemental Environmental Impact Statement (VR/SEIS) by the U.S. Army Corps of Engineers (Corps or USACE). As part of the public outreach efforts and for compliance with the National Environmental Policy Act, the Corps published a "Notice of Intent (NOI) to Prepare a Supplemental EIS" in the Federal Register on September 20, 2021. On November 19, 2021, the Corps released the Draft VR/SEIS for public review. Documents were made available for public review on the Corps' website: https://www.nws.usace.army.mil/Missions/Environmental/Environmental-Documents/.

The public comment period was open for 45 days from November 19, 2021 through January 4, 2022. The Corps received two comment submittals through electronic mail; these two comment letters came from the Washington Department of Fish and Wildlife (WDFW) and the Environmental Protection Agency (EPA). These two letters are provided in their entirety following the documentation of the Corps' responses to the public comments.

2 Public Comments and Responses

	General		Response
Commenter	Theme	Comment	
WDFW	Debris Management	WDFW has concerns about the ability of the fixed multiport collection structure design to adequately handle debris. To remedy this, the USACE has proposed a tiered approach to achieve the following objectives: 1) reduce the debris load arriving at the MIS, 2) reduce the chance of clogged screens using additional debris handling features, 3) provide access to each horn for manual screen cleaning if needed, and 4) provide a robust alternative full flow bypass system for maintaining fish passage during unforeseen or infrequent circumstances. WDFW supports these objectives, and we agree with the USACE that the exact configuration of this tiered system will need to be analyzed further during pre-construction, engineering, and design phases of the project.	Thank you for the comment. The Corps is plann construction, engineering, and design phase an resources agencies on design configurations to management.
WDFW	Fish Collection Efficiency	To gather the necessary feedback for adjusting project operations, the Monitoring and Evaluation Plan in the 1998 Report (Section 2.6.1) strongly recommends specific measures for monitoring juvenile fish rearing and migration through the constructed project and lower river for up to five years and that up to 13 years could be justified.	The Corps intends to use Appendix F of the 199 Monitoring and Adaptive Management Plan. The monitoring and evaluation studies to be impleme and design phase to inform design refinements adaptive management plan framework. At the o design phase, both pre- and post-construction r VR/SEIS includes Appendix E, Monitoring and A reference.
WDFW	Fish Collection Efficiency	WDFW strongly supports the recommended Monitoring and Evaluation Plan and believes implementation of this Plan is necessary for addressing fish collection efficiency and survival criteria described in the [biological opinion] BiOp.	Thank you for the comment. The Corps intends framework for the updated Monitoring and Adap Monitoring and Adaptive Management Plan Fra
WDFW	Steep Slope Survivability	The USACE recognizes that the water velocities in the proposed steep slope pipe system exceed the National Marine Fisheries Service (NMFS) fish passage criteria. Given this velocity exceedance, it will be important that the bypass is designed so the velocities are decelerated gradually before discharging to the tailrace, so exposure of fish to shear will be minimized.	Thank you for the comment. The design of the solong enough in distance before the exit so that we fish survival before discharging into the tailrace. exceeded 50 ft/s and decelerated gradually in the into the river. The Corps is using data and less conform the HAHD steep slope bypass design.
WDFW	Fish Predation	the Monitoring and Evaluation Plan in the 1998 Report (Section 2.6.1) strongly recommends specific measures for monitoring of juvenile fish rearing and migration through the constructed project. The monitoring data will be important for effectively evaluating fish survivability through the project, including predation that can occur for a distance downstream of the fish bypass exit.	The Corps intends to use Appendix F of the 199 Monitoring and Adaptive Management Plan. Ple Management Plan Framework, in the Final VR/5
WDFW	Fish Predation	WDFW recommends considering alternative methods for downstream collection monitoring. The river velocities in the tailrace and below should be considered to avoid or minimize harm to migrating fry and parr. One option to consider is a pond at the downstream end to allow juveniles to acclimate before entering the river and to provide an opportunity for accurate juvenile passage data to be collected.	Thank you for your comment and recommendat considering alternatives for post construction fis monitoring all sizes of downstream migrating juy downstream of HAHD is one option under consi
WDFW	Coordination	The USACE has conducted workshops and technical meetings with WDFW, tribes, and stakeholders to gather input on issues raised [in this comment letter]. As the USACE continues with the pre-construction, engineering, and design phases of the project, WDFW requests the continuation of these meetings to foster an inclusive process in the review and development of critical design features.	The Corps recognizes the regional and national and fully intends to coordinate with regional age success of the project. The coordination that wa the pre-construction, engineering, and design pl monitoring and evaluation of success.

e to Comment

nning to conduct a Debris Study during the preand will continue coordinating with the natural to determine the appropriate level of debris

998 EIS as an initial framework for the updated The Corps has developed a comprehensive list of mented during the pre-construction, engineering, ts as well as a post-construction monitoring and outset of the pre-construction, engineering, and monitoring plans will be developed. The Final d Adaptive Management Plan Framework, for

ds to use Appendix F of the 1998 EIS as an initial aptive Management Plan. Please see Appendix E, ramework, in the Final VR/SEIS for updates.

e steep slope pipe will include a horizontal pipe it velocities are decelerated to acceptable limits for ce. Velocities in the Green Peter steep bypass the horizontal pipe to 8-10 ft/s before discharging sons learned from the studies at Green Peter to

998 EIS as an initial framework for the updated Please see Appendix E, Monitoring and Adaptive R/SEIS for updates.

lation for a recovery pond. The Corps is fish passage and survival monitoring, including juvenile fish. Installation of a recovery pond nsideration to facilitate post-passage monitoring.

al importance of restoring ESA-listed salmonids gencies and experts to maximize the likelihood of was initiated in late 2020 will continue throughout phase as well as during post-construction

	General		Response
Commenter	Theme	Comment	
EPA	Schedule	EPA encourages the Corps, in all processes and functions, including associated NEPA documents, to prioritize meeting the Project Development Milestones laid out in Appendix A of National Marine Fisheries Services' (NMFS) 2019 [BiOp] for [HAHD].	The Corps has set an aggressive schedule to conducting a "Section 902 Validation Study" with Report and Supplemental EIS, followed by having the project in the Water Resources Development and funding subsequent to WRDA, the Corps w engineering, and design phase milestones to m in Appendix A of the NMFS 2019 BiOp for HAH
EPA	Coordination	EPA encourages the Corps to continue working with stakeholders and incorporating feedback when making ongoing and future decisions on design, modeling, performance standards, monitoring, and adaptive management to optimize success for downstream fish passage.	The Corps recognizes the regional and national and fully intends to coordinate with regional age success of the project. The coordination that wa pre-construction, engineering, and design phase and evaluation of success.
EPA	Monitoring and Adaptive Management	EPA recommends the FSEIS include a robust monitoring and adaptive management strategy for the downstream fish passage facility, given the limited examples of similar steep slope systems and studies in the Northwest.	The Final VR/SEIS includes Appendix E, Monitor Framework. The Corps intends to use Appendix updated Monitoring and Adaptive Management monitoring and evaluation studies to be implement refinements of the fish passage facility as well a management plan framework. At the outset of the phase, both pre- and post-construction monitori input from natural resources agencies, interested
EPA	Monitoring and Adaptive Management	Include an environmental inspection and mitigation-monitoring program to ensure compliance with all mitigation measures and assess their effectiveness.	Please refer to Appendix E, Monitoring and Ada the Final VR/SEIS. The fish passage facility is b NMFS 2019 BiOp which evaluated both the incr continued operation of HAHD. All other compen completed. The Corps will coordinate with natur to include avoidance and minimization measure of the fish passage facility to maximize environn
EPA	Monitoring and Adaptive Management	Describe the monitoring program and how it will be used to ensure program adjustments are made to meet environmental objectives throughout the life of the project.	Please refer to Appendix E, Monitoring and Ada the Final VR/SEIS.
EPA	Monitoring and Adaptive Management	Consider how ongoing environmental monitoring results from other comparable downstream fish passage facilities may apply to this project and discuss implications for Howard A. Hanson Dam. Section 2.6.2 of the DSEIS identifies the Corps Portland District has one project, the Green Peter Dam, where a steep pipe bypass has been constructed and another, Cougar Dam, where a steep pipe bypass has been considered in an alternatives study.	The Corps will use lessons learned, study desig Corps Districts to inform the post-construction n Portland District has conducted numerous fish p evaluate the bypass at Green Peter dam, which Portland District did not develop specific studies because alternatives for fish passage are still ur
EPA	Delayed Downstream Fish Passage Construction	the DSEIS does not account for the extended delay in construction of the fish passage facility and the temporal impacts to aquatic organisms and habitat that would have benefited from the completed project. EPA recommends the FSEIS address the long-term temporal impacts to aquatic organisms and habitat and consider measures that could mitigate the temporal effects.	Text was added to the Final VR/SEIS to describ As an interim measure prior to construction of the implementation of RPA 2 in the NMFS 2019 Bio October 15 and February 28 each year to reduce 5,000 cfs during most moderately high inflow even water management regime through the required operational. The effect of the operational chang egg survival to the migrant fry lifestage in river r through the fry lifestage has benefits to the over benefits to other aquatic organisms that feed on

complete the agency's required process of with the first goal of completing the Validation wing a signed Director's Report in time to include ent Act (WRDA) of 2022. Pending authorization would schedule the project's pre-construction, meet the Project Development Milestones laid out HD.

al importance of restoring ESA-listed salmonids gencies and experts to maximize the likelihood of was initiated in late 2020 will continue throughout ase as well as during post-construction monitoring

itoring and Adaptive Management Plan dix F of the 1998 EIS as an initial framework for the nt Plan and has developed a comprehensive list of mented during the design phase to inform design I as a post-construction monitoring and adaptive f the pre-construction, engineering, and design pring plans will be fully developed in detail with sted Tribes, and the non-federal sponsor.

daptive Management Plan Framework included in s both an RPA and RPM promulgated through the acreased pool elevation of the AWSP and the ensatory mitigation for the project has been rural resources agencies during the design phase res in the plans and specification for construction nmental protection.

daptive Management Plan Framework, included in

signs, and results from studies conducted by other monitoring and studies for HAHD. The Corps' passage and survival studies, including studies to ch will inform monitoring at HAHD. The Corps es to evaluate a steep bypass at Cougar Dam under consideration.

ribe how the Corps is addressing temporal impacts: If the fish passage facility, the Corps has initiated BiOp, which is a change to operations between uce outflow rates at the dam to a maximum of events. The Corps is proposing to continue this ed period until the fish passage facility is nge would have measurable increases in salmon r reaches below the dam. Increasing survival verall population numbers as well as providing on juvenile salmon at each lifestage.

0	General	0 annual t	Response
Commenter	Theme	Comment	Discos and the new new membral data data and the
EPA	Delayed Downstream	The project site includes a temporary cofferdam on the left bank of the river just upstream of, and connected to, the dam. The temporary cofferdam has been in place since at least	Please see the new paragraph added to section of the Final VR/SEIS. The Corps considers this
	Fish Passage	2011 when the project was placed on hold. Given the length of time this temporary	lengthy shoreline of the reservoir. It was not co
	Construction	structure has been in place, EPA recommends the FSEIS assess impacts to aquatic	construction and has not undergone further dist
	Construction	habitat resulting from the long-term duration of having this in place and quantify those	of the reservoir, any ongoing effects of the alter
		ongoing effects.	negligible.
EPA	Delayed	EPA recommends the FSEIS address how the extended construction delay impacts the	A new paragraph appears in section 5.13 of the
	Downstream	project's expected public benefits in having permanent downstream fish passage in place	between initially projected completion date and
	Fish Passage	around 2008/2009 as originally planned in the 1998 Additional Water Storage Project EIS.	
	Construction	EPA recommends the updates to expected public benefits include consideration of the	
	A (:	affected and interested Tribes and communities with Environmental Justice concerns.	
EPA	Aquatic	Include an estimated footprint of the proposed excavation and installation in the left bank	The construction footprint below ordinary high w
	Resources:	below the ordinary high water mark for the purpose of installing the open box-like structure	acre) and roughly 500 feet of riverbank. This are
	Impacts to Waters of the	at the proposed outlet in the river for the fish release transport pipe exit. Quantify an estimated size of impact versus only stating "The outlet will be a large pipe with a	outfall pipe for the fish, plunge pool, and access added to section 3.6.3 of the Final VR/SEIS to c
	U.S.	supporting crib wall, which will be a small footprint on the left bank."	condition.
EPA	Aquatic	Disclose if stabilization of the stream bank opposite the tunnel outlet is proposed and	The bank opposite of the proposed outlet tunne
	Resources:	could impact riparian areas and/or waters below the ordinary high water mark. Estimate	HAHD's outlet works. The slope will need to be
	Impacts to	the area of impact and potential effects from vegetation removal (in addition to solely	works to blend in with the proposed construction
	Waters of the	addressing aesthetics).	right bank of the river.
	U.S.		
EPA	Aquatic	Provide additional information on potential impacts associated with the vegetation removal	In addition to work below ordinary highwater, th
	Resources:	associated with the temporary access road (e.g., size, impacts to waters or riparian area).	acres) of impacts on the left bank for access roa
	Impacts to		hillside stabilization. The left bank of the river in
	Waters of the		continue to cause erosion of the hillside. These
	U.S.		drainage improvements) to prevent damage to the hillside that was cleared and stabilized for dam
			replant as much of the area as possible around
			protection. Please see sections 3.6.3 and 3.9.3
			potential impacts associated with vegetation rer
EPA	Aquatic	Include additional information to more accurately characterize "short term" as it relates to	Please see section 3.6.3 of the Final VR/SEIS f
	Resources:	potential impacts on fish, crustaceans, mollusks, and other aquatic organisms in the food	aquatic organisms from potential water quality o
	Impacts to	web, to allow for an accurate evaluation of the impacts anticipated on these organisms	
	Waters of the	from construction.	
	U.S.		
EPA	Aquatic	Given the proposal to remove mature trees and shrubs at the tunnel outlet site, identify	The Corps agrees it is important to have no net
	Resources:	opportunities to plant additional appropriate native vegetation nearby to improve riparian	paragraph was added to section 3.6.3 of the Fir
	Impacts to Waters of the	function that will be impacted from these actions (e.g., shading, erosion). Limiting revegetation to the non-hardened area at the site of impact will result in an overall net	shrubs at a 5-to-1 ratio to mitigate for the tempo will be identified during design phase.
	U.S.	loss. Commit to these mitigation measures.	wiii be identilied during design phase.
	0.0.		

ion 3.9.1, Affected Environment, in the Fish section is alteration to be a minor effect to the overall considered as important habitat for fish prior to its isturbance since its installation. Based on the scale ered shoreline of the cofferdam can be considered

he Final VR/SEIS to discuss activities in the years ad new target completion date.

water is approximately 46,000 square feet (1 area includes the outfall stilling basin, scour pool, as along the left bank to the plunge pool. Text was b describe the impact and post-construction

nel is already an armored riprap slope for the be regraded in the area of the proposed outlet ion. No additional stabilization is expected on the

there is an estimated 110,000 square feet (2.5 road improvements, drainage improvements, and in this area has significant drainage issues that se issues require stabilization (grading and o the proposed facility. This area is largely a steep m construction and operations. The Corps will nd the area that must be stabilized for erosion .3 of the Final VR/SEIS for updated information on removal.

for additional information on short-term effects to changes.

et loss to areas of vegetated riparian zones. A Final VR/SEIS to commit to replacing trees and poral loss of mature vegetation. Sites for planting

Commontor	General	Comment	Response
Commenter EPA	Theme Aquetie	Comment Clarify if site clean-up and restoration will specifically apply to any waters. For example,	Any aquatic areas disturbed by construction wo
EFA	Aquatic Resources: Impacts to Waters of the U.S.	where waters are impacted during the original construction of the sedimentation ponds, clarify if restoration is proposed to return them to pre-construction conditions.	that phase of construction is complete according developed during design phase. After all constru- restoration will include ensuring all aquatic area to pre-construction conditions. This final site res- removal of the sedimentation ponds with revege been continually cleaning the hill of invasives ar continue to take over in their place. The Corps of species. A new paragraph has been added to s
EPA	Aquatic Resources: Impacts to Waters of the U.S.	Identify mitigation measures, including any compensatory mitigation required under the Clean Water Act, to avoid, reduce, and mitigate impacts to Waters of the U.S.	Section 3.6.3 of the Final VR/SEIS has been ex and minimizing impacts to waters of the U.S. A Plan as well as an Environmental Protection Pla construction contract. Construction oversight sta contractor adheres to the plans.
EPA	Water Quality: Short-term and Temporary Effects	The DSEIS states that "Construction of the [fish passage facility] would have short-term and minor effects to water quality in the short section of river below [Howard A. Hanson Dam] downstream for up to approximately 1 mile" EPA recommends the FSEIS clarify and expand on the assessment of "short-term," as construction is proposed for three to four years and will occur in certain areas throughout most of the year. The statement is vague and does not allow for an accurate assessment of potential impacts.	Section 3.6.3 of the Final VR/SEIS has been reterm and minor effects.
EPA	Water Quality: Short-term and Temporary Effects	EPA recommends the FSEIS provide additional information on what constitutes a "temporary" effect; especially considering the temporary cofferdam has been in place for at least 10 years	Section 3.6.3 of the Final VR/SEIS has been re temporary effects.
EPA	Water Quality: Turbidity	EPA recommends the FSEIS clarify if it is possible to release water from the lowest port (which is located at a similar elevation as the turbidity pool) to ameliorate temperatures without releasing turbid water	The conceptual design process to this point has collector's ability to operate for temperature main management is not included as a criterion in the for operational strategies to ameliorate water te for the fish passage facility to improve downstre juvenile passage, and the viability of such an op engineering and design phase. Although the low pool, the dam's 19-foot tunnel is below this elew Therefore, operating the lowest port of the FPF releases. Text has been added to section 3.6.3 management.
EPA	Water Quality: Turbidity	EPA recommends the FSEIS provide additional information on the Corps practice of "gradually lower[ing] the reservoir to achieve a reduction in total quantity of sediment that has accumulated on the upstream side of the dam until a noticeable increase in discharge turbidity is observed." Providing this information would be beneficial for assessing potential impacts to water quality by understanding the frequency in which sediment clearing operations occur and whether there is any turbidity monitoring which occurs during this process beyond visual observations.	The following text has been added to Section 3. "Except for passing high turbidity flows during a operations are rare, with the most recent occurr occur every year, however, to meet low flow au reach a flood control pool of roughly elevation 1 elevation is slow and deliberate, as the "turbidity year. Careful monitoring of discharge turbidity of

vould be cleaned up and restored immediately after ing to the Care and Diversion of Water Plan to be struction is complete, final site clean up and eas disturbed by construction have been returned estoration will include decommissioning and getation of the hill where they lie. The Corps has and will continue to do so. Trees and grasses s will ensure all new plantings will consist of native section 3.6.3 of the Final VR/SEIS.

expanded to provide information about avoiding A comprehensive Care and Diversion of Water Plan will be required documents under the staff will have responsibility for ensuring the

revised to be clearer about what is meant by short-

revised to be clearer about what is meant by

as not included an evaluation of the multiport nanagement benefits. Although temperature the 2019 BiOp, the Corps can investigate potential temperatures. The Corps recognizes the potential tream water quality while still optimizing safe operation will be studied in pre-construction owest port is within the elevation of the turbidity evation and would be open at the same time. IF has only minimal risk of adding turbidity to water .3 to clarify the potential for water temperature

3.6.1:

and shortly after flood events, sediment clearing urring circa 2006. Reservoir drawdown operations augmentation demands in July-October and to 1,075 feet. The drawdown to the flood control pool lity pool" elevation can vary slightly from year to occurs as the reservoir approaches empty."

	General		Response
Commenter	Theme	Comment	
EPA	Water Release Management and Fish Habitat	Clarify if there will be anticipated increased use by rearing fish (outmigrants) in the reach below dam if juveniles successfully out-migrate. If so, this could increase the importance of this reach as fish habitat for juveniles as they move downstream towards the ocean.	The Corps anticipates that Chinook and coho ju this reach of river alternating between feeding a the reach. Steelhead, however, may spend sub juvenile and subadult freshwater phase. Pink sa the salmonids without spending time for rearing habitat, so outmigrating fish would be expected river between dams is protected from developm water supply; therefore, its quality as salmon ha been added to section 3.9.3 of the Final VR/SE
EPA	Water Release Management and Fish Habitat	Clarify if it is anticipated that further consideration for fish habitat will come to the fore in the downstream reach. If so, discuss if any changes in discharge regime management are anticipated.	Fish habitat in the 3.5-mile reach of river betwee condition and is considered high quality habitat. water management regime based on effects to considerations throughout the lower watershed continue following the established Water Contro Green River Water Management Coordination (resources in the watershed below HAHD.
EPA	Endangered Species Act	EPA recommends the FSEIS include an update and/or the outcome of consultation with the USFWS under Section 7 of the ESA.	The Corps received a final Biological Opinion from the Final VR/SEIS has been updated with this in
EPA	Tribal Coordination and Consultation	EPA recommends clarifying in the FSEIS if the Confederated Tribes and Bands of the Yakama Nation have treaty-protected natural resource interests within the scope of this project.	The Confederated Tribes and Bands of the Yak usual and accustomed grounds and station in th any project notices since at least 2011. The Con this fish passage facility project according to pro protected rights. The Final VR/SEIS has been us these tribes. In addition, the Corps added a sen regarding Tribal Treaty Resources. The Corps a consultation with the Native American Tribes wi the study area.
EPA	Tribal Coordination and Consultation	EPA encourages the Corps to consult with the Tribes and incorporate feedback from the Tribes when making decisions regarding the project. EPA recommends the FSEIS describe the issues raised during the consultations and how those issues were addressed.	Text was added in section 6.2 of the Final VR/S Muckleshoot Indian Tribe during the Validation design phase activities and post-construction m concerns as they arise in future study activities.
EPA	Construction- related Emissions	EPA recommends the FSEIS include a discussion of construction-related air pollutants and potential exposure of these pollutants to any nearby populations, including workers at the dam. EPA recommends including a discussion of measures to be taken to minimize air quality impacts on the local environment and decrease exposure of construction- related emissions and dust.	Section 5.5 of the VR/SEIS has been updated v pollutants and measures to minimize air quality
EPA	Hazardous, Toxic, and Radioactive Waste	The Table of Contents for the DSEIS references an Appendix E for hazardous, toxic, and radioactive waste, noting the FSEIS will include this appendix which was not provided in the DSEIS. The DSEIS does not include any information on hazardous, toxic, and/or radioactive waste as it relates to this project. EPA recommends that the FSEIS, in addition to including the missing appendix, clarify if the project may result in impacts associated with any hazardous, toxic, and radioactive waste, and if so, include the appropriate assessment of effects, applicable state and federal requirements, and proposed mitigation measures to address the impacts.	The Final VR/SEIS has updated the list of appe as an appendix to Appendix B Engineering. A R an Environmental Condition of Property Report the proposed construction support sites that wo passage facility. This specialist found one of the but it has been cleaned up and there are no fur no record of any environmental release or dispo 3.3 in the VR/SEIS for a new paragraph discuss regarding HTRW.

juveniles would migrate relatively quickly through and migrating, but would not set up residence in ubstantial time rearing in this reach during their salmon would migrate downstream the fastest of ng. This reach of river has highly functioning ed to be successful in this reach. This section of the oment due to being part of the source of drinking habitat is expected to remain unchanged. Text has EIS to discuss this river reach.

veen HAHD and TPU's diversion dam is in good at. The Corps is unlikely to propose changes to the o this reach of river due to greater area of ed for the water control regime. The Corps plans to trol Manual and to continue coordinating with the n Committee for practices and guidance regarding

from USFWS on February 3, 2022. Section 5.2 of information.

akama Nation have adjudicated fishing rights to the study area, but they have not responded to Corps provided information to Yakama Nation on protocol for consultation with Tribes with treatyn updated to clarify the status of coordination with entence to section to 3.11 of the Final VR/SEIS s also added a paragraph to section 5.12 regarding with usual and accustomed grounds and stations in

/SEIS to list the concerns raised by the n Study phase. The Tribe's concerns are related to monitoring; therefore, the Corps will address these s.

l with a discussion of construction-related air ty impacts.

bendices and has now included the HTRW report Remediation Biologist for the Corps has prepared rt and Phase I Environmental Site Assessment for vould be used during construction of the AWSP fish he sites had a documented fuel spill in the past, urther actions required there. The other sites have posal of hazardous materials. Please see section assing HTRW and Appendix B for the full report