U.S. Environmental Protection Agency Region 10 Seattle, Washington

Explanation of Significant Differences Wyckoff/Eagle Harbor Superfund Site East Harbor Operable Unit

September 2007

Signature sheet for the Explanation of Significant Differences Wyckoff/Eagle Harbor Superfund Site East Harbor Operable Unit at the Wyckoff/Eagle Harbor Superfund site. This ESD outlines significant changes to the East Harbor Operable Unit Wyckoff/Eagle Harbor Superfund Site Record of Decision, issued in September 1994.

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U.S. Environmental Protection Agency

Region 10

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Explanation of Significant Differences Wyckoff/Eagle Harbor Superfund Site East Harbor Operable Unit

1. Introduction

In accordance with Section 117(c) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and Section 300.435(c)(2)(i) of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), if the Environmental Protection Agency (EPA) selects a remedial action and, thereafter, determines there is a significant change with respect to that action, an Explanation of Significant Differences (ESD) and the reasons for such change must be published.

This ESD has been prepared for the East Harbor Operational Unit (OU) of the Wyckoff/Eagle Harbor Superfund Site on Bainbridge Island, Washington (EPA Identification Number WAD009248295). The Wyckoff/Eagle Harbor Superfund site is located on the east side of Bainbridge Island in central Puget Sound, (Figure 1).

The Wyckoff Site includes the former Wyckoff Company wood-treatment facility, contaminated subtidal and intertidal sediments in Eagle Harbor, and other upland sources of contamination to the harbor, including a former shipyard. The East Harbor OU consists of intertidal and subtidal surface sediments in the eastern part of Eagle Harbor. The sediments are contaminated with polynuclear aromatic hydrocarbons (PAHs) and other organic compounds associated with wood treatment.

EPA is the lead agency for the Wyckoff/Eagle Harbor Superfund Site. EPA has worked closely with the Washington Department of Ecology (Ecology), the City of Bainbridge Island, the Army Corps of Engineers, the National Oceanographic and Atmospheric Agency, the Suquamish Tribe, and other parties to develop remedies for the site.

The East Harbor OU Record of Decision (ROD) was issued in September 1994. The primary remedial action objective for the East Harbor sediments was achievement of the Washington State Sediment Management Standards (SMS) (WAC 173-204) and reduction of contaminants in fish and shellfish to levels protective of human health and the environment. The major components of the remedy include sediment capping in subtidal areas with monitoring in intertidal areas to confirm the predicted recovery of intertidal sediments through natural processes. The East Harbor Subtidal Sediment Cap was completed in three phases over seven years.

In the Summer of 2005, EPA received reports from citizens about odors on the West Beach, an intertidal portion of the East Harbor OU that had previously been considered uncontaminated. Upon aspection, EPA found as idence of residual oily contamination and seven on the beach occur is so of a skitches as a different action and as I at each occur.

behind the bulkheads. It appeared that some contaminated sediments associated with this portion of the site had been incompletely removed. EPA roped-off these portions of the West Beach and posted signs restricting access. EPA conducted extensive sediment sampling along the beach during a period of extreme low tides in spring 2006. The investigation determined that the extent of visual and chemical contamination at the surface of the beach was limited to the roped-off areas. However, sediment near the surface (i.e., within 4 feet of the surface) in several additional areas was also contaminated above cleanup levels.

Consistent with the East Harbor remedy selected in the ROD, an exposure barrier system (EBS) will be constructed over these recently discovered contaminated portions of the West Beach and subtidal sediments. The EBS will be constructed from the southern edge of the existing subtidal cap (- 10 mean lower low water (MLLW)) to the intertidal area up to +10 MLLW. The construction of this EBS and accompanying extension of the subtidal cap constitute a significant difference from the ROD. In addition, the discovery of contamination in a portion of the East Harbor OU used by the public necessitates changes to the cleanup levels in the ROD.

This ESD will become part of the Administrative Record for the site which includes the ROD and other relevant documents. These documents are available for review at the following location:

EPA Region 10 Superfund Records Center 1200 Sixth Avenue, ECL-076 Seattle, WA 98101 206-553-4494 or toll-free at 1-800-424-4372 Please call for an appointment

For any questions regarding this ESD, please contact

For General Information:

<u>Jeanne O'dell</u>, EPA Community Involvement Coordinator 206-553-6919 or toll-free at 1-800-424-4372

Technical Information:

MaryJane Nearman, EPA Region 10 Remedial Project Manager 206-553-6642

2 Site History, Contamination, and Selected Remedy

From the early 1900s through 1988, a succession of companies treated wood at the Wyckoff wood treating plant for use as railroad ties and trestles, telephone poles, pilings, docks, piers, and treated lumber generally. The plant was one of largest in the United States. By 1910, pressure treatment began with creosote/bunker oil. Wood-preserving operations included: (1) the use and storage of creosote, pentachlorophenol, solvents, gasoline, antifreeze, fuel and waste oil, and lubricants; (2) management of process wastes; (3) wastewater treatment and discharge; and (4) storage of treated wood and wood products.

There is little historic information about the waste management practices at the facility. Until the late 1940s, treated wood was stored in surface water adjacent to the facility. Beginning in the 1940s treated logs were transported to and from varying facility treatment areas via a transfer table pit. Chemical solutions drained from retorts after a treating cycle, as well as from treated wood, went directly into the soil and groundwater. Wastewater was also discharged into Eagle Harbor for many years. Groundwater and soils at the facility are contaminated with primarily creosote-derived PAHs, PCP, aromatic carrier oils, and dioxins and furans. An on-site extraction and treatment system is used to recover and treat oily liquid and contaminated groundwater at the site. It is estimated that 1 million gallons of oily liquid still remain in the subsurface beneath the former wood-treating facility. A sheet pile wall has also been installed around the former process area to prevent migration of oily liquid and contaminated groundwater to Eagle Harbor and Puget Sound.

Sediments in areas of Eagle Harbor are contaminated with PAHs and other organic compounds, as well as with metals, primarily mercury. Eagle Harbor is divided into two areas, East Harbor and West Harbor (Figure 1). The wood treating facility is the major source of PAH to the East Harbor through both past operating practices and contaminant transport through the subsurface. An additional source of contaminants to the East Harbor was created when sludge from tanks and sumps was used as fill material between an old and new bulkhead at the Wyckoff property in the 1950s. In the West Harbor, PAH contamination in nearshore sediments appear to be from combustion products, minor spills, and pilings and piers, while subtidal PAH contamination in the West Harbor is believed to reflect a combination of these sources, disposal practices at a former shipyard and releases from the Wyckoff operations. Elevated concentrations of metals in the West Harbor, particularly near the former shipyard, are associated with past shipyard operations, including the application, use, and removal (by sandblasting) of bottom paints and antifoulants, including mercury.

2.1 Basis for Taking Action

Chemical concentrations in East Harbor sediments and marine organisms are elevated with respect to background locations. However, human health risk estimates for exposure to subtidal sediment contaminants through dermal contact and sediment ingestion are within or below EPA's range of acceptable risks (EPA's acceptable risk range is from 1 in 10,000 (1x10-4) to 1 in 1,000,000 (1x10-6)). For seafood ingestion, calculated cancer risks are generally between 10-4 and 10-6 at both the East Harbor and background locations. Consumption of shellfish from specific areas (such as near the Wyckoff property) results in risk levels above 10-4. In addition, the bioassays for acute toxicity indicated that sediments from many sampled locations in the East Harbor are toxic to amphipods, oyster larvae, or both. The bioassay responses are most severe in areas of high PAH contamination, such as areas just north of the Wyckoff property. Additional evidence of biological effects in Eagle Harbor includes the prevalence of liver lesions and tumors in English sole, as documented by NOAA.

2.2 East Harbor Remedial Action Objective and Selected Remedy

The primary remedial action objective for the East Harbor sediments was achieve orement the twishingum State Sediment Massagement standards (SMS) and sediment or or according to the latest sediment of the sediment of the sediment.

In subtidal areas, active remediation is required if the top ten centimeters of sediment contain contaminant concentrations above SMS-mandated levels at the completion of upland source control. For intertidal sediments, the surface ten centimeters must at a minimum achieve SMS-mandated levels within ten years after completion of active cleanup action (WAC 173-204-570). This is supplemented by an intertidal objective of concentrations of 1,200 μ g/kg (dry weight) high molecular weight PAH (HPAHs), developed by EPA to address human health risks from consumption of contaminated shellfish in intertidal areas.

The major components of the remedy specified by the ROD include sediment capping in subtidal areas with monitoring in intertidal areas to confirm the predicted recovery of intertidal sediments through natural processes.

2.2.1 Remedy Implementation

The East Harbor Subtidal Sediment Cap was completed in three phases over seven years. The major components of each phase were as follows:

- Phase I: EPA issued an Action Memorandum for a non-time-critical removal action (NTCRA) on June 15, 1993. Sediment placement NTCRA activities began in September 1993, and concluded in March 1994. Approximately 275,000 cubic yards (cy) of dredged material was placed over 54 acres of contaminated sediment approximately 900 feet from the shoreline.
- <u>Phase II:</u> In 2000-2001, EPA extended the Phase I sediment cap by an additional 15 acres to the Wyckoff facility's northern shoreline over a former Wyckoff facility log-rafting area. This area was not remediated during Phase I due to a lack of upland source control at the time. <u>Phase III:</u> In early 2002, EPA placed an additional 50,000 cubic yards of clean material in a shallow subtidal area to create intertidal habitat and form a continuous intertidal beach along the Eagle Harbor shoreline.
- West Beach/Mitigation Beach: This project occurred as mitigation for the taking of habitat during sheet pile wall installation in the Groundwater and Soils OU. Creation of this beach increased the area of available forage fish-spawning habitat; providing feeding, resting, and habitat for migrating salmonids; and providing a connecting corridor between existing habitats within Eagle Harbor and Puget Sound. When conducting the investigation on the recently discovered contamination on the West Beach, this area was administratively moved from that OU and added to the East Harbor OU based on its intertidal and subtidal nature and the nature of the remedy (i.e., extension of the East Harbor subtidal cap). The East Harbor OU now includes all contaminated subtidal and intertidal areas adjacent to the Wyckoff site.

2.2.2 System Operations/Operation and Maintenance

EPA is conducting long-term monitoring of the subtidal and intertidal areas of the East Harbor according to the Operation, Maintenance, and Monitoring Plan (OMMP) approved by EPA in July 1994, and amended in May 1999. The most recent Year 8 monitoring results were used to determine remedy success. The primary activities associated with the OMMP include the following:

- Subtidal and Intertidal monitoring to determine cap physical stability and containment effectiveness.
- East Beach monitoring for natural attenuation.
- West Beach/Mitigation Beach monitoring for habitat utilization.

3 Basis for the ESD

Following the Summer of 2005 citizen reports and subsequent EPA investigation and public access restrictions described in the Introduction above, EPA conducted extensive sediment sampling along the beach during a period of extreme low tides in spring 2006. The objectives of the sampling were to: 1) assess the nature and extent of the contamination in the areas of concern; 2) determine if other portions of the West Beach were contaminated; and 3) collect data to support remedial action in the contaminated areas.

The investigation determined that the extent of contamination on the surface of the beach was limited to the initial areas of concern. However, intertidal sediment near the surface (i.e., within 4 feet) in several additional areas was also contaminated above cleanup levels. Although subtidal sampling was not conducted in this effort, residual contamination from the bulkhead removals likely contaminated subtidal sediments directly adjacent to the contaminated intertidal sediments. The current subtidal cap does not extend to these additional subtidal and intertidal areas between -10 MLLW and +10 MLLW.

3.1 Selected Remedy

Consistent with the East Harbor ROD, an exposure barrier system (EBS) will be constructed over the more recently discovered contaminated portions of the West Beach and nearby subtidal sediments that were not capped during previous phases of remedial action in the East Harbor OU. The EBS will effectively isolate the contaminated West Beach sediments from human and ecological exposure. The EBS includes two primary elements:

- 1. **Beach Cover System.** A beach cover system will be placed on top of the existing beach sediments and previously placed habitat fill in the intertidal zone. The area to be covered includes locations where contaminant concentrations have recently been found to exceed cleanup levels and locations where visual evidence of contamination has been observed in the upper 4 feet of sediment. The cover system will consist of a porous geotextile placed on the original beach, a 1-foot-thick layer of 3-inch cobbles placed on top of the geotextile, and a 2-foot-thick layer of habitat fill placed on top of the cobble layer.
- 2. **Subtidal Cap Extension.** The existing Eagle Harbor sediment cap will be extended from its current southern edge to the new beach cover system. The materials, placement methods, and placement tolerances for this cap extension will be consistent with those used for the existing Eagle Harbor cap, and the cap extension will have the same overall thickness as the beach cover system. The result will be a 3-foot-thick layer of sand and gravel covering the subtidal area immediately north of the West Beach and extending up to the southern edge of the collision, barbor cap.

Figure 3 shows the areas where the EBS will be constructed. Cross-sectional views through the EBS are illustrated in Figure 4.

3.2 Other Remedial Options and Modifications Considered

As a result of stakeholder suggestions, EPA also considered the following modifications to the West Beach remedial action:

- Excavation of "Hot Spots." EPA considered excavating the most-contaminated portions of the beach to a depth of 2 feet, backfilling the resulting holes with 3 feet of clean habitat fill, and spreading a one-foot-thick layer of habitat fill over the remainder of the contaminated beach area. The option was not pursued because it would not result in greater protectiveness because it does not account for potential exposure at small undiscovered hot spots, and because contaminated sediment would be left in place at depths greater than 2 feet below grade. In addition, it would pose difficulties in implementation due to tidal flooding, and would not provide the armoring and enhanced beach drainage provided by the selected beach cover system.
- Reduce the Beach Cover Area. This was evaluated to potentially reduce the cost of the beach cover system by covering only the most contaminated areas and doing limited excavation in adjoining areas with contaminant concentrations just slightly above cleanup levels. It was not pursued because it would not result in greater protectiveness (for same reasons described above) and because dynamic beach processes would tend to scavenge sediment from the covered areas to fill in the non-covered areas.
- Incorporation of Adsorbent Materials into the Beach Cover. EPA considered incorporating adsorbent material into the intertidal beach cover system. Both organoclay and activated carbon as granular material and manufactured mats were evaluated. Neither enhanced the protectiveness of the remedy for the following reasons:
 - Organoclay is an effective adsorbent for mobile non-aqueous phase liquid (NAPL).
 It was not incorporated into the final EBS for the West Beach because the residual NAPL present in a few locations, does not appear to be mobile.
 - Activated carbon is typically used to adsorb dissolved organic contaminants.
 However, the solubilities of PAHs and other NAPL constituents are relatively low and limited modeling shows that the concentrations of PAHs in sediment left under the cover system are unlikely to result in adverse effects to surface water.
- Eliminating Sub-tidal Cap Extension. Despite significant potential cost savings, after careful evaluation. EPA decided to proceed with the extension of the cap for the following reasons:
 - The harbor cap material will also support the toe of the beach cover system.
 - Extension of the harbor cap is consistent with previous remedial action in Eagle
 Harbor which has proven to be effective through ongoing monitoring.
 - The harboric ip would cover any remaining concamination or debris on the purpor specified in this area.

 The design and implement of a conclusive sampling program to justify eliminating the harbor cap extension would significantly delay the implementation of the EBS.

3.3 Sources of Information

The following information in the Administrative Record supports the need for the significant differences described herein and the basis for the EBS design:

- West Beach Investigation Data Evaluation Report Wyckoff/Eagle Harbor Superfund Site Bainbridge Island, Washington (CH2M HILL, 2006)
- Wyckoff West Beach Exposure Barrier System (EBS) Design Concept (CH2M HILL, 2007)
- Wyckoff West Beach Exposure Barrier System (EBS) Design Basis (CH2M HILL, 2007)

4 Description of Significant Differences

As described in Section 2.2.1, the remedy components of the East Harbor ROD have been completed. However, new information about visual and chemical contamination in an additional portion of the East Harbor OU has come to light and there is a need to expand and modify the remedy to address this contamination.

The construction of the EBS at the West Beach constitutes a significant difference from the East Harbor ROD for the following reasons:

- a. The Beach Cover System enhances the former Mitigation Beach portion of the remedy. While the surface of the Beach Cover System is made up of the same materials as the former Mitigation Beach and will serve the same function (i.e., increase the area of available forage fish-spawning habitat; providing feeding, resting, and habitat for migrating salmonids; and provide a connecting corridor between existing habitats within Eagle Harbor and Puget Sound), the cover system includes additional subsurface components intended to isolate contaminated sediment from human and ecological contact.
- b. The Beach Cover System and Subtidal Cap Extension are estimated to cost approximately \$2.3 million, constituting a significant increase in the cost of the selected remedy.

In addition, the discovery of contamination in a portion of the East Harbor accessed by the public necessitates modifications to the cleanup levels selected in the ROD. The exposure scenarios considered for development of cleanup levels in the ROD were limited to ecological exposure and human consumption of exposed marine organisms. Direct human contact with contaminated sediments may exist on the West Beach during periods of low tide. Therefore, the cleanup levels for intermittently exposed intertidal sediment along the West Beach, which were based solely on the Sediment Quality Standards (SQS) of the SMS, must be updated to also include the Washington Model Toxics Control Act (MTCA) soil cleanup levels under WAC 173-340-740. Table I lists the MTCA Method B cleanup levels for direct human exposure.

Table 1 Additional Cleanup Levels for West Beach Portion of East Harbor OU

Chemical Group	Chemical of Concern	MTCA Method B Soil CUL ^a (mg/kg)
PAH	2-Methylnaphthalene	320
PAH	Acenaphthene	4,800
PAH	Acenaphthylene	
PAH	Anthracene	24,000
PAH	Benzo (a) anthracene	0.14
PAH	Benzo (a) pyrene	0.14
PAH	Benzo (b) fluoranthene	0.14
PAH	Benzo (g,h,i) perylene	
PAH	Benzo (k) fluoranthene	0.14
PAH	Chrysene	0.14
PAH	Dibenzo (a,h) anthracene	0.14
PAH	Fluoranthene	3,200
PAH	Fluorene	3,200
PAH	Indeno (1,2,3-cd) pyrene	0.14
PAH	Naphthalene	3,200
PAH	Phenanthrene	
PAH	Pyrene	2,400
PCP	Pentachlorophenol	8.3

Notes:

Model Toxics Control Act Cleanup Levels and Risk Calculations (CLARC) database, soil, Method B direct contact
-- Cleanup level is not available

mg/kg - milligrams per kilogram (parts per million)
PAH - polynuclear aromatic hydrocarbon
PCP - pentachlorophenol

No changes in expected outcomes are anticipated from this ESD. The EBS will provide a protective and durable exposure barrier that will allow typical recreational activities on the beach and in the harbor with a low likelihood of contact with underlying contaminated sediments. The EBS will also enhance the former Mitigation Beach and serve as suitable fish habitat.

5 Support Agency Comments

Regulatory and governmental stakeholders including the State of Washington Department of Ecology (Ecology), the Suquamish Tribe, and the National Oceanic and Atmospheric Administration (NOAA) participated in the investigation and the evaluation of cleanup options for the West Beach and support the remedial action outlined in this ESD.

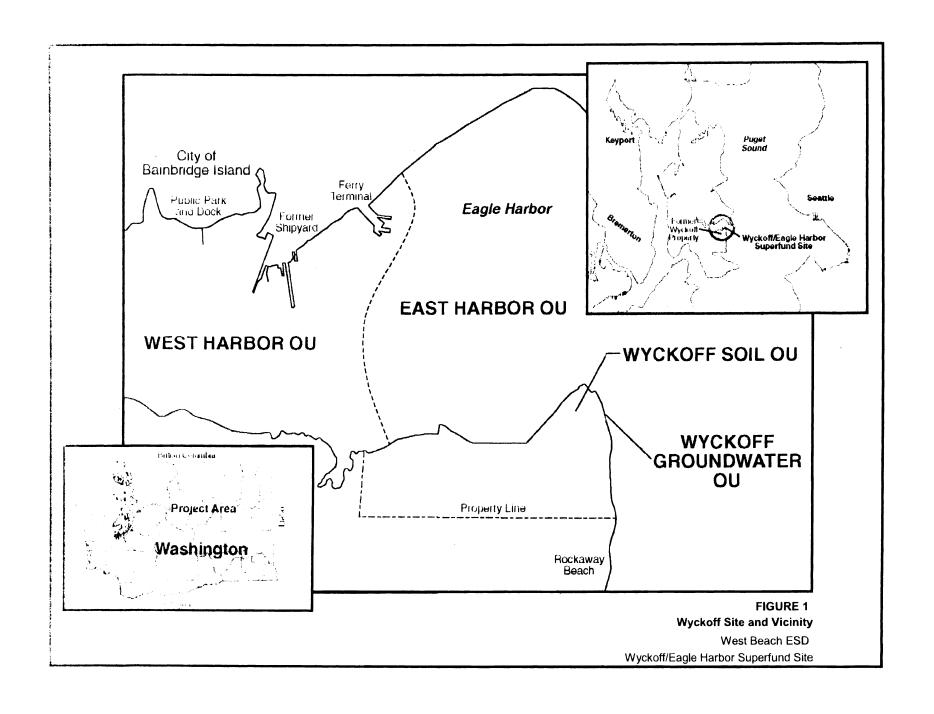
6 Affirmation of Statutory Determinations

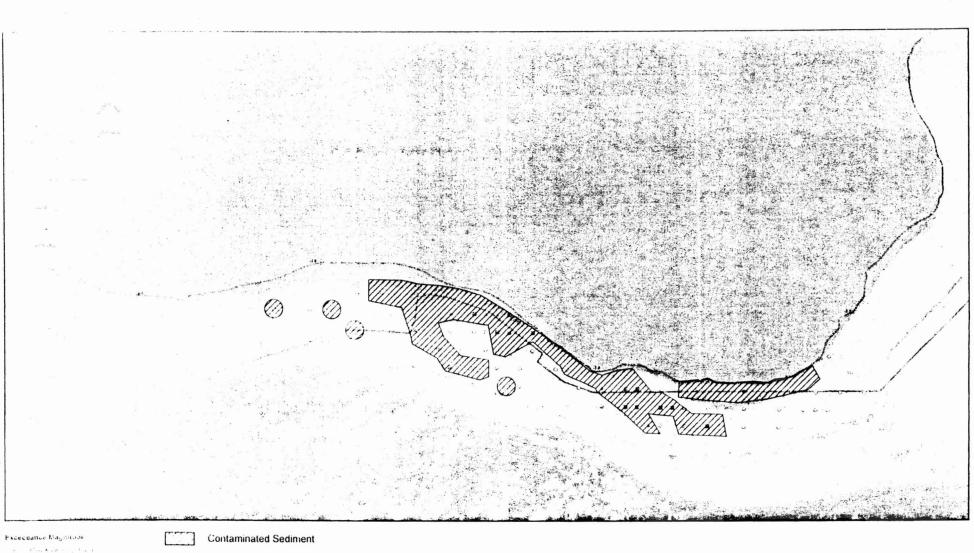
The Selected Remedy attains the mandates of Section 121 of CERCLA, and the NCP. Specifically, the remedy is protective of human health and the environment, complies with Federal and State requirements that are applicable or relevant and appropriate to the remedial action, is cost effective, and utilizes permanent solutions and resource recovery technologies to the maximum extent practicable.

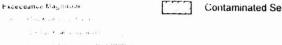
Because this remedy will result in hazardous substances, pollutants or contaminants remaining on site above levels that allow for unrestricted exposure, a statutory review will be conducted within five years after initiation of remedial action to ensure that the remedy is, or will be, protective of human health and the environment.

7 Public Participation Activities

In accordance with the NCP, a formal public comment period is not required for an ESD. However, EPA is announcing the availability of this ESD and a summary of the cleanup action in two local newspapers once the ESD is issued. EPA also discussed this action in a public meeting on the five-year review held at the Bainbridge Island Commons on August 16, 2007. The final ESD will be available on the EPA Wyckoff/Eagle Harbor website. Public notification of beach closure during construction activities will be coordinated with the City of Bainbridge Island and the Bainbridge Island Parks Department.







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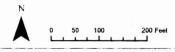
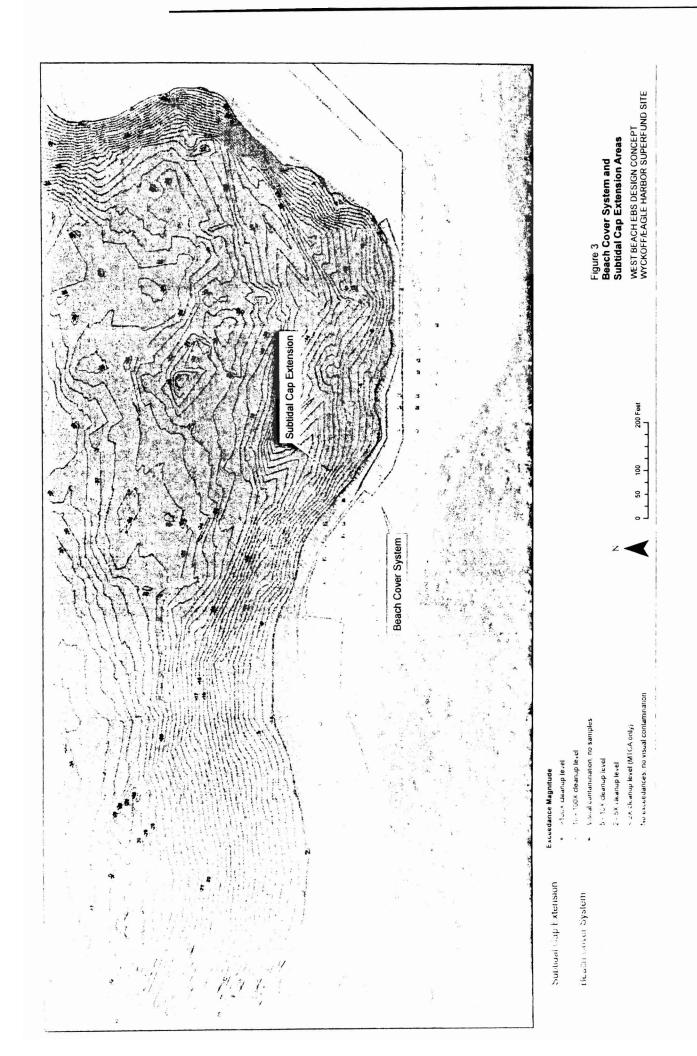
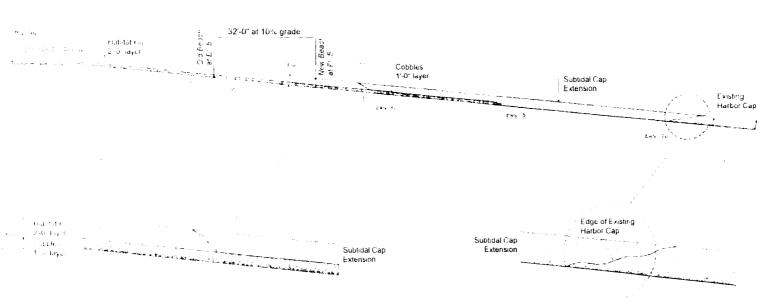


Figure 2
Distribution of Visible and Chemical
Contamination - Upper 4 Feet

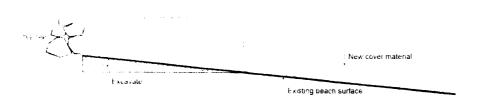
WEST BEACH EBS DESIGN CONCEPT WYCKOFF/EAGLE HARBOR SUPERFUND SITE





Transition of Habitat Fill to Subtidal Cap
Extension Material





Detail of at Top of Beach

Figure 4
Conceptual Schematic Cross Section
of Overall Exposure Barrier System
Looking West

WEST BEACH EBS DESIGN CONCEPT WYCKOFF/EAGLE HARBOR SUPERFUND SITE

APPENDIX A

Analytical Results - West Beach Sediment Samples

Explanation of Sediment Comparison Criteria Used in West Beach Data Evaluation

The Record of Decision (ROD) for OU 3 (USEPA 1992) identifies the state sediment management standards (SMS) (WAC 173-240) as the primary applicable or relevant and appropriate requirements (ARARs) to be used in defining site cleanup objectives for the East Harbor. The SMS are based on protection of marine organisms and are intended to mitigate adverse biological effects, contaminant resuspension, and bioaccumulation.

The chemical criteria in the SMS were derived from the 1988 Puget Sound lowest apparent effects threshold (LAET) testing conducted in the late 1980s (Barrick et al., 1988). Apparent effects thresholds (AETs) are concentrations of a specific chemical above which adverse biological effects always occur (Ecology, 1996). The AETs are based on paired chemical and biological results from benthic infaunal abundance date, amphipod bioassays, Microtox® assay luminosity, and oyster larvae bioassays.

At the time the West Beach Investigation Work Plan and QAPP were prepared, USEPA planned to use carbon-normalized SQS values as the screening levels for potential biological exposure. However, following receipt of analytical data from the West Beach Investigation, it was recognized that TOC concentrations in West Beach sediment samples are very low (typically less than 0.5 percent). In such cases, SMS recommend use of the LAET values to evaluate sediment contamination. The LAETs were also derived from the AET¹ study, but are based on dry weight rather than carbon-normalized values.

Depending on TOC content, sample results were either compared to the LAET values (samples with less than 0.5 percent TOC), or were carbon normalized and compared to the SQS values (samples with greater than 0.5 percent TOC).

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	and the second second		•	2.1	31 U	16 313 U	1.7	271	26 U	12 J
		Sales -		236	292	36,886	11 J	2,772	224	741
		**************************************		134	313	8,483 J	32	614	311	20 J
		1.50.15	Ju	30	160	3,916 J	26 J		101	15 J
	the state of the s	٠٠,٠,		52	234	9 135 J	45	356	186	25
		فيد و	+1	6.4	4. 60		16 J			6.3 J
				23	J 84	16 313 U	14 J	119	67	7 1 J
		1949	Dr. Committee of the Co	138	332	11,893 J	61	644	336	16
	* * * * * * * * * * * * * * * * * * *	14,40		1.5	14 J	16 313 U	26 J	24	931	100 UJ
		hay a .	*1.	938	D 1,504 D	45,677	61	3,465	1,006	62
		2693		530 (D 164	10,277 J	9.5 J	1.584	211	17 4
	and the second second second	5.5		76		473 J	15 J		37 4	631
		2.50		611	12	473 J	2.9	71	15 J	331
		£		1,667 (D 606 D	37,520	26	4,366	494	771
. •		16.3	1	470	D 820 D	32,626	61	1 944	54	31
			*	76	318	9,126 J	59	475	263	32
		President of	0	1,803	3,681	112,202	323	7 452	2.619	199
		1947		3,414	1,360	94,111	59	10,272	1,061	23
		1.50.52	2	11 1	1 13 11	30,995 11	0.70 111	0.77.11		0.00.00

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اجلاء يو				WEH-SED-1A-07-SURFACE 4/27/2006 (1/3)	WEH-SED-1A-09-0.33-4 4/2//2506 0.33-4	WEH-SED-1A-26-4-9 4 - 9 4:26/2006	WEH-SED-1A-28-0.33-4 4/27/2006 0 33 - 4	WEH-SED-1B-05-0.33-4 5/03/2006 0.33 - 4
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			MTCA Soil			Also see carbon		
	Analyte	ALT	CUL	•		normalized results		
	and the state of t	2.47	3.5	5.39	J 0.514	2.5	0 0035 U	0.017
	and the second second	4,	4 800	0.51	0.64 J		0.0035 U	0.11 J
	A Company of the Comp	1.5		0.016	0 18 U	5 9637 U	0.0035 U	0.0050
	A Charles	*5	14.13	G * ±	(bò	5,5 D	0 0045	0.0038 1
	and the second of the second	1.3	3.11	1.2	0.52	2.3	0.30	0.13 J
	i a diffic	; r.	÷ 14	0.76	0.26	0.63	0 012	0,032 3
	programme and the second		5.14	1.5	J 0.48	1.1	0.021	0.073 J
	28 79 71			0.35	0.13	0.14 J	0 0021 J	0,036 J
	Land American		. 14	0.41	0.15 J	0.39	0.6066	0.632 5
	To protect	1.4	o 14	1,9		2.3	0.18 J	0.18 J
	in a straighteen	2.5	. 1	0.080		0 033 J	0.0035 U	0.0069 3
	4 14 1	1.	3	2.4	J 2.1 J	15 D	0.0045	0.80
		. 4	31	3.47	0.26	11 D	0 0035 U	0 071 J
	1.1		5.14	0.50	0.17 J	0.18 J	0 0028 J	0.057 J
		1.1	3.40	0.086	J 0.027 J	3.5	0.0035	0.074 J
		1.5		0.56	1.4 J	29 D	0.0031 J	0.057 J
		. 5	2.400	2.4	15 J	7.7 D	0.0059	9 48
	and the state of t	4.7		1.9	0.63	1.5	0.026	ú 11
		1.7	-	12	6.0	30	0.53	1.8
	1 mai	1.2		⊋ Ġ	3.2	57	0.011	0 32
	of a control of	s 4	5.3	ورجان 0			0.0035 J	
	1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2001	u b		460	9.4 U	
	and a Mining with tight remains				48 U	100 v	23 U	52 U

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			4/26/2006
			4 - 9
e transfer out.			
district.	Analyte	Units SQS	
	the second of with the	F + 6.3	267
	, 46 t	the part of the second of the	908 D
	and the second of the second	te.	0 43 U
	4 4 5	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	632 D
	45 The Co.	1 (m) 11	264
	and the state of	1 p+ 1 3m	72
	and the appropriate	4 4 e ₁₄	126
	عقبونجد الأرا	A Company of the Comp	16 J
	e l'arth e l'	1 F	45
	4 + 14	1.1	264
	and the second residence	15 mg = 15	3.6 J
	A Contract of the Contract of	Program Williams	1,724 D
		÷,	1,264 D
	San en a gament	54 · .	21 J
		Cont. Mr.	402
		* 1	3,333 D
		t kar linear	885 D
	the second and the second	to program of the	1/1
		A green and the second	3,422
		mark to the second of the seco	6,540
	الم في بي ال	A Carrier No.	0 84 U.i

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Fight – Selection Country, Standards Tiber – Iotal organic our burn (Pri = Iotal petroleum hydrocarbons

Consistion
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If the actual the was not detected at or any retire reported value
If the actual the was not detected at or any retire reported value, the quantitation is an estimation

WEH-SED-1A-26-4-9

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Sample ID Transper Da Transper Da	ie			WEH-SED-1A-33-8-11 4/26/2006 8 - 11		WEH-SED-1A-34-6-10 4/26/2006 6 - 10	
Chemical			MTCA Soil				
эгоир	Analyte	LAET	CUL				
ir sa	2-Methylnaphthalene	0.67	320	0.072	J	1.7	J
1000	Acenaphthen6	0.5	4,800	0.69		2.4	N. p. 11.78
f	Acenaphthylene	1.3		0.010	J	0.0039	UJ
1984	Anthracene	0.96	24,000	0.63		3.6	
Fee.	Betizu (a) arithracene	1.3	0.14	0.57		0.69	
Crist	Benzo (aj pyréne	1.6	0.14	0.21		0.16	J
Per	nenzo (b) fluoranthene	-	0.14	0.41		0.30	
1'''	Benzo (g.h.) perylene	0.67	'	0.074	J	0.035	J
F14VL	Benzo (K) fluóranthone		0.14	0.089	_ J	0.075	J
Pert)	Chrysene	1.4	0.14	0.46		1.1	J
1111	Diberizo (a,h) anthracene	0.23	0.14	0.025	J	0.017	J
17, 11	Fluoranthene	1.7	3,200	1.9	J	3.0	
15.33	rhotetie	0.54	3,200	0,89	J	2.3	s. 185
i'r i	Indeno (1,2/3-cd) pyrene	0.6	0.14	0.11	J	0.050	J
C 513	Naphthalone	2.1	3,200	0.099	J	4.4	
1 1 :	Phenanthrene	1.5		2.7	J	5.8	an way to a
120-1	Pyrene	2.6	2,400	1.6	J	2.4	J
$e^{i} \cdot i$.	lotal penzolluoranthenes	3.2	-	0.50		0.38	
12.0	≒otal HPAH	12		5.4		7.8	
17/31	Total LPAH	5.2		5.0		19	
Fa F	Penta, niorophenol	0.4	8.3	0.38	U	0.39	U
117.64	:PH-GC/Diesel Range Organics	-	2,000	77		150	
trreDs.	1PH-GC/Motor Oil Range Organics		2,000	48	U	56	U

Dry weight result exceeds LAET

Dry weight result exceeds MTCA Soil CUL

Dry weight result exceeds both LAET and MTCA Soil CUL

face Castler normalized results not applicable, all TOC concentrations < 0.5%.

Communicy Level

11 - 40

Transment of gromological weight polycyclic aromatic hydrocarbon

1 50 1 - Pour st apparent effects threshold

1997 of Four molecular weight polycyclic aromatic hydrocarbon

no, 🦏 indigrams per kilogram

After A - Model Foxics Control Act

How a poly, yella aromatic hydrocarbon

it', r. - printachlorophehol

Sign Somment Quality Standards

17. - Otal organic carbon

ានការ។ សេចជាpetroleum hydrocarbons

Dr. Steam

. The at alyte was positively identified.

to his longite vias not detected at or above the reported value.

to a recognition was not detected at or above the reported value; the quantitation is an estimation.

ampre ID		-		WEH-SED-215-SURFACE		WEH-SED-216-8-12	WEH-SED-219-2-5	
1000 1000 140	en.			5/02/2006		4/24/2006	4/28/2006	
4 32 5				0 - 0 33		8 - 12	2-5	
Chermoal			MTCA					
Group	Analyte	LAET	Soil CUL					
15.24	. Methymaphthalene	0.67	320	0.19	J	47	3.9	
17	a capither	0.5	4,800	0.047	J	1.6	12	D
	6. completing to the	13	-	0 024	J	0.054	0 0050	U
1.00	r- Wild all editor	0.96	24 000	0.83		37	11	D
1 -	the table (a) and have the	1.3	0.14	0.46		17	6.9	D
1 7	tions into pyterie	1 6	0.14	0.36		1.0	3.6	
1	the Zolub Heistantherse	-	0.14	0,54		1.9	5.5	D
	took 2005, his perfector	0.67	-	0.15	J	0.26	1.4	
1.7	tocker (r) fluotacthene		0.14	0,16	J	0.57	1.5	7
F75 .	1 y Selve	1.4	0.14	0.60	7	23	8.3	D
1	Patricker (a for affilten if the	0.23	0.14	0.036	J	0.24	0.34	
*	Electrication to	1.7	3 200	1.4		12	34	D
Paris	Photogram	0.54	3,200	0 11	J	1.7 .	J 14	D
Pros	licitor at 1.2.3 cay pyrene	0.6	0.14	0.16	J	0.35	1.6	
	fau, fill ha he	2.1	3.200	0.20	J	37	2.8	
	efficient differe	1.5	-	0.20		14	40	D
17.	Pyrea	26	2,400	1 1		6.6	j 20	D
1 150	Lifet be acottoorant when	3.2	-	0.70		2.5	7.0	
19.4	, Jai riPAH	12		5.0		63	83	
rivin.	Friai LPAH	5.2		1.4		91	80	
13.3	Perion Althopher of	0.4	63	0.0068	UJ	0.37 L	0.010	UJ
119	در بنهری تا Chasel Range On بیشتری	-	2 000	8.8	U	320	7,700	
1000	1994 GL Motor Oil Range Organis		2,000	22	U	52 L	1,900	U

The August result exceeds LAFT.

Uty weight result overeds MTCA Suit CUL

Uny weight result exceeds both LAET and MTCA Soil CUL

Note: Carpeti-hormalized results not applicable; no carbon-normalized exceedances

and the second fields

Titles in the decidial weight (1), 1). A rematic hydrocarbon

and a second appropriate the strong and

active in the collected weight polyrychic arabidation parocarbon.

1 Fig. 1 in the Section of the Participants.

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and her complete was find definition of 66 about the reported value.

10.3 To a 14,3. Was felt detected at a labore the reported value, the quantitation is an estimation.

Sample ID	A REST CONTRACTOR OF THE STATE			WEH-SED-224-1-3	WEH-SED-227-0.33-1
1. 2 m. De	ve:			5/ 03/2006	4/24/2006
100				1 - 3	0.33 - 1
Chemical	· · · · · · · · · · · · · · · · · · ·		MTCA		
Group	Analyte	LAET	Soil CUL		
ilad.	. Methylnaphthalene	0 67	320	0.27	0.0062
*** j.	A. c. aprithener	0.5	4.800	2.8	D 0.24 J
19.00	Accouptify lette	1.3	_	0.0035	U 0.0044
Prot	retitle acede	ũ 96	24,000	1.3	0.25
1'*31	berate (a) anti raterio	1.3	0.14	0.81	0.18
1.44	Deloco (a) pyřeřic	16	0.14	0.21	0.11
17.11	beild's (b) fluoranthene	-	0.14	0.32	0.18
Pate	Brain (ن الله العربية) كالمان كالمان العربية المان العربية العربية العربية العربية العربية العربية العربية الع	06/	'	0 092	J 0.042 J
1900	be ratio (k.) fluoraritherid	-	0 14	0.25	0.091
· At	Unit, autie	1.4	0.14	0.76	0.25
Err.	Diberigo (ajti) anthracerie	0.23	0.14	0.020	J 0.0095 J
17	Etumantheric	1.7	3,200	4.8	D 0 66 J
173	Fluitelie	0.54	3,200	3.6	D 0.040 J
1 7 1 1	Indutio (1.2 3-cd) pyriche	(+6	0.14	0.18	J 0.044 J
12.11	Naytithalene	2.1	3,200	0.97	0.021
PAR	Priesanthrene	1.5	_	9.0	D 0.15 J
10.1	Fitone	26	2 400	2.5	D 0.39 J
Profes	Lotal Benzetluoraumenes	3.2		0.57	0.27
Ersti	Lotal HPAH	12	_	9.9	2.0
173	rotal cPAH	5.2	-	18	0.71
PCC	Pentachic ophorol	0.4	8.3	0.0070	U 0.36 U
0.1100	IPH-GU/Diesel Rail ju Organius	_	2,000	99	38
St. Carlo	TPH-GC/Muter Oil Range Organies		2.000	46	U 50 U

Dry weight result excecas LAr. I.

Litry weight result exceeds MTCA Soil CUL

Dry weight result exceeds both LAET and MTCA Soil CUL

Tream Corpon-normalized results not applicable; all TOC concentrations < 0.5%.

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There is the pain site solar weight polycyclos aromatic hydrocarbon.

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in the remarks was not detected at or above the reported value, the quantitation is an estimation.

The state of the special distribution decision in

1.50, 44				EH-SED-233-SURFACE 5/01-2006 0 - 0 - 3	WEH-SED-234-0.33-4 5/01/2006 C-31-4	WEH-SED-235-0.33-4 4/28/2506 0.33 - 4	WEH-SED-237-1-3 5/03/2006 1 - 3	WEH-SED-238-0.33-4 4/26/2006 0.33-4	WEH-SED-239-0.33-4 5/01/2006 0.33 - 4
of contract	Analyte	LAF1	MICA Son	Also see carbon	Also see carbon	Also see carbon	Also see carbon normalized results	Also see carbon normalized results	Also see carbon normalized results
	Committee of the Commit		3.0	C 023		0.032	0 024 J		014
	and the state of t	L	4 too	0.630		1.4	1.2	1.7	4.4 J
	· · · · · · · · · · · · · · · · · · ·	1 1		Cu-mo,		0.20			U 0.23 U
	1. 1. 1. 1. 1.		. 4 500	6.1ac	. 11	1.5	6.46	0.00-41	i) 3.4 J
	Control of the second	1.4	a 14	0.19	0.28	2.9	D 0.57	0.80	2.3
	Control of the second	1.6	114	0.14	0 13	0.85	0.19 J	0 14	J 0,55
	List Books to		. 14	0 37	0.25	1.6	0.29	0.30	1.0
	and the specialists	2.4		0.068	0 048	J 0.18	J 0 073 J	0.016	J 013 J
	and the state of		5.14	5 0.50		0.51	0.20	0.679	0.35
	11,411	1.4	14	0.37	0,29	2.6	0.57	0.65	2.2
	or to the definition of the	5.2	. 14 -	2.015		J 0.060	J 0.021 J		0.034
		17	1	0.54	1.2	14			J 8.8 J
	The second second	. 1	1	44		0.46	0.50	0 19	J 2.4
	Source Source and page 50		3.14	0.07.		0.23	0 14 3	0.049	J 0.16 J
	See 15 car		3.00			0.043			0 32
				0.17		14	10	0 19	J 3.1 J
			2.4.0	5.76	1.1		D 19	3.2	J 6.0 J
	La Lord Pactor	э.		5.46	€ 54	2.1	0.49	0.38	1.4
	2.1. 111	1.		2.6	3.5	33	7.2	11	22
		5.4		40	1 &	4.6	3.2	2 1	14
	and the property of	4	F 3	0.0034	6 (679 U	J 6.0679 t	U 00066 U	0.0081	UJ 6800.0
	for the season Kanada and the		2000	65	หัว	100	140	160	550
	المراجع فالمعجودة والطياب المراجع		200	(A)	54 (.756	L 48 U	58	U 112 U

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t syste				WEH-SED-233-SURFACE 5/02/2006 0+8/34	WEH-SED-234-0.33-4 5/01/2006 0.33-4	WEH-SED-235-0.33-4 4/26/2006 0.33 - 4	WEH-SED-237-1-3 5/03/2006 1 - 3	4/28/2006	WEH-SED-2	39-0.33-4 5/01/2006 0 33 - 4	-
a factorial a	: Anatyle	un is	545								-
	Street and promise of	0,81		11.	21	23	13	J 0 84		11 .	7
	Association for the second	67.5	15	14.		101	67			361	
	The state of the s	1,5-1	521	9.45	1.2	14			O. T.	19 L	_
	and the	1	22.	4 1 .		104	26			279	í
	A	0.164	111	96.		208			Ü	189	•
		7.5	4	6.6		J 61	11		4	45	
	and the second	for ed		18	29	115	16		•	82	
	and the second	6.3	3.1	,	5.5	J 13	.j 4.1		.1	11 .	.i
	The second second	0.00		4.1	11	J 37	11	8.1	j.	29	
	C. 1. 4. 2	٠.	117	1n	33	167	32	66		180	
	Committee of the property	4.4	10	S / 1 .	1.1	J 43	.) 12			28	J
			fe. 1	_+·	139	1.006			j	721 .	,
		1 4 4 1	23	21.	38	33	28	19	j	197	
	Control of the second	11, 61	34	3.4	5.9	J 17	7.8	J 50	J	13 .	J
	the first of the second	1 200	4.1	7.1	3.1	3 1	lı 43	J 21		26	
	** ** *** ***	· · · · · ·	5/6	81,	102	101	56	19	J	254 .	j
	* 1 4	100	1	35.	127	711	() 106	327	J	492	J
	4 1 s 4 4 4 4 5 4 s	4.54	. 1.1	22	39	152	27	39		111	
		2.34	A	124	396	2,358	357	1,096		1,764	
		1.5	5.4	23	./08	342	161	214		1,116	
	Europe Helico		Mico	6.11	631 t	ىد 0.57	Uu 0.37	U 0.83	UJ	0.73 U.	J

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· Linga L				WEH-SED-241-0.33-4 5/01/2006 0.33 - 4	WEH-SED-246-SURFACE 5/02/2006 0 - 0 3 3	WEH-SED-248-0.33-4 4/26/2006 0.33 - 4	
دار منتشمیات دولت با یک	Analyte	LAFT	MTCA Soil	Also see carbon normalized results	Also see carbon normalized results	Also see carbon normalized results	
	Michael gentraliere		3.70	0.0642	0 0029	J C 010	
	Kinda Carlos	1.5	4.800	D-0058	0 0033	J 0 010	J
	the section of the se	7.1		6 0042	0.0059	0.0025	J
	" - rain to Color	1.00	24.000	t. 015	J 5548	J 0.27	
	Section of the contract	1.5	0.14	0.12	0.15	J 0.25	7
	and the property of	: 0	. 14	0.016	0.091	J 010	J
	Source & Manageration &		14	0.15	J 0.18	J 0.31	7
	The second of th	400		0.041	J 0.034	J 0 038	J
	A discount traction		€ 14	6.063	J 6.067	J 0.594	J
	4 - 4	1.4	0.14	0.18	J 0.24	0.42	
	and the state of t	1,14	∂ 14	0 20	U 0.0021	J 0.0050	J
		1.	3.200	0.46	0 16	J 11	
	A Committee of the Comm	4	3.13	0.0652	0.0088	0 (64	J
	and the state of t	· ·	: 14	0.647	.) 0.042	J 0.058	J
	100 at 100	. 1	3. GO	6.015	0.011	0 00d3	
	5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.5		0.000	J 0.070	J 6.12	j
		. 6	2.469	0.32	0 17	j 14	
	1	× 2	-	ದಿ 🛩	0.25	0.40	
	Contract of the second of the	12		1.4	1.1	3 6	
	11.14d	• 2		0.12	0.14	0.47	
	and the discount with	4	5 1	Cuare U	0.0083	UJ 0,0083	UJ.
	the common of the design of the common of th		20-1	23	L 22	G 43	
	 Motoral pikar pokaga jagan ke 		2 (6.5)	tie -	U 54	U 56	U

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tion Sommalized Results

Sample for			WEH-SED-241-0.33-4 5/61/20.66 0.33 - 4		WEH-SED-246-SURFACE 5/02/2006 0 - 0 33		VEH-SED-248-0.33-4 4/28/2006 0.33 - 4			
či, med										
sycular	Analyte	dints	sus							
	La Marie Cog Malerie	1 313		0.25		0.37	J	0.53		-
	the form of the first	27.74.3	16	0.27		0.42	J	0.53	J	
	A series of the series	10001	14	6.2°.		0.75		0.11	J	
	*		220	9.70	J.	48	J	14		
	in a second of the second	1.000	4.11	5 0	1	19	j	1 1		
	and the figure of	40.00	30	3 /	,	12	J	5.3	J	
	the first program of	27 + 3		7.0	1	23	J	16		
	and the property	11 64	51	19	1	4.3	J	20	j	
	the state of the s	9.00		2.5	J	8.5	.3	5.5	J	
		St. J. Kr.	110	n S	j	30		22		
	to be a first as the section	6.4.5	12	9.4	£.	0.27	J	6.27	J.	
	and a contract of	15713	167	لين		29	J	59		
	Age of		2.5	0.43		1.1		3.4	j	
	and the first strategy and the		14	2.2	J	5.3	J	3.1	J	
	, th	1.00	50	6.73		1.4		0.44		
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	1. A. A.		1. 34	15		22	J	74		
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	1.15.41	31.484	5-77	bë		144		201		
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	And the second second		s na	5.4.	ŧ. J	1.1	UJ	0.44	υJ	

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12. doing
10. The analyte was postulely identified.
10. The analyte was not detected at or above the reported value.
10. The analyte was not detected at or above the reported value, the quantitation is an estimation.

16. 4 55. 623. 736. 41.

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