

Department of Ecology - Environmental Report Tracking System

ERTS # 545943

Initial Report

External Reference #

Caller Information

Where did it happen

First Name JOHN, Last Name MORROW, Business Name CITY OF BOTHELL, Street Address, Other Address, City, State WA, Zip, E-mail, Phone (425) 471-4689, Ext, Type Mobile, Confidential_FL checkbox

Berth, Anchorage, Location Name SCHLEUTER PROPERTY, Street Address 1515 196TH ST SE, Other Address, City/Place BOTHELL SNOH, State WA, Zip, County - Region SNOHOMISH, NWRO, FS ID, WIRA #, Waterway NORTHCREEK, Type CREEK, Latitude, Longitude, Topo Quad 1:24:000 BOTHELL, Direction/Landmark (mile post, cross roads, township/range)

What happened

Spills Program Oil Spill? N

Incident Date, Received Date 1/26/2005 0:00, Medium SURFACE WATER-FRESH, Material OTHER - SEE NOTE, Quantity, Unit

Primary Potentially Responsible Party Information

Source COMMERCIAL, Cause DUMPING, Activity DUMPING, Impact WATER POLLUTION, Vessel Name, Hull Number

First Name, Last Name SCHLEUTER, Business Name, Street Address, Other Address, City, State WA, Zip, Phone, Ext, Type, E-mail

Additional Contact Information

Name, Phone, Ext, Type

More Information

JOHN MORROW AND BOTHELL FIRE MARSHALL WENT TO INVESTIGATE SITE AFTER RECEIVING A COMPLAINT. THE SITE IS JUST OUTSIDE THE CITY LIMITS AND IS DIRECTLY ACROSS THE STREET FROM A SCHOOL. IT IS AN ABANDONED INDUSTRIAL (BOAT PAINTING?) SITE.

THE SITE IS FULL OF DRUMS, RANGING FROM 5 TO 55 GALLONS, WHICH CONTAIN PAINT, SOLVENTS, & UNKNOWN SUBSTANCES. MANY OF THESE DRUMS ARE TIPPED OVER AND LEAKING. THERE ARE ALSO PILES OF MATERIALS WHICH LOOK TO BE SANDBLAST GRIT, AND PALLETS OF ASBESTOS.

NORTH CREEK IS WITHIN 50 FEET OF THE SITE, AND A CLASS 2 WETLANDS WHICH ARE CONNECTED TO THE CREEK. THERE IS EVIDENCE OF LONG TERM DUMPING INTO THE WETLANDS.

DIRECTLY ACROSS THE STREET FROM THE SCHOOL IS AN OLD FARM GATE. THE ABANDONED BUILDINGS ARE BEYOND THE GATE.

JOHN MORROW IS REQUESTING AN IMMEDIATE CALL BACK FROM RESPONDER. HE WILL MEET SOMEONE AT THE SITE.

Entry Person WALTERS, TRACIE

Entry Date 1/26/2005

Department of Ecology - Environmental Report Tracking System

ERTS # 545943

Referral

<p>Referral Method</p> <p><input type="radio"/> E-mail ERTS number</p> <p><input checked="" type="radio"/> E-mail attachment</p> <p><input type="radio"/> Print</p> <p><input type="radio"/> Telephone</p>	<p>Person Referred to BERNARD, CHARMAINE</p> <p>Phone (425) 649-7194 Fax (425) 649-7098</p> <p>E-mail chas461@ecy.wa.gov</p> <p>Program/Organization SPILLS, PREVENTION, PREPAREDNESS AND RESPONSE</p> <p>Address 3190 160TH AVE SE</p> <p>City BELLEVUE WA 98008-5452</p> <p>Region/Location NWRO</p> <p>Referral Date 1/26/2005</p>	<p>Referral # 76502</p> <p>Primary <input type="checkbox"/></p>
<p>Referral Method</p> <p><input type="radio"/> E-mail ERTS number</p> <p><input checked="" type="radio"/> E-mail attachment</p> <p><input type="radio"/> Print</p> <p><input type="radio"/> Telephone</p>	<p>Person Referred to SNOH HEALTH DIST - DRUG LAB ISSUES, JONELLE F</p> <p>Phone (425) 754-0908 Fax</p> <p>E-mail jfenton@shd.snohomish.wa.gov</p> <p>Program/Organization SNOH. HEALTH DIST. DRUG LAB ISSUES</p> <p>Address</p> <p>City WA</p> <p>Region/Location NWRO</p> <p>Referral Date 1/26/2005</p>	<p>Referral # 76531</p> <p>Primary <input type="checkbox"/></p>
<p>Referral Method</p> <p><input type="radio"/> E-mail ERTS number</p> <p><input type="radio"/> E-mail attachment</p> <p><input checked="" type="radio"/> Print</p> <p><input type="radio"/> Telephone</p>	<p>Person Referred to MUSA TCP, DONNA</p> <p>Phone (425) 649-7136 Fax (425) 649-7098</p> <p>E-mail dmus461@ecy.wa.gov</p> <p>Program/Organization TOXICS CLEANUP</p> <p>Address 3190 160TH AVE SE</p> <p>City BELLEVUE WA 98008-</p> <p>Region/Location NWRO</p> <p>Referral Date 1/31/2005</p>	<p>Referral # 76584</p> <p>Primary <input checked="" type="checkbox"/></p>
<p>Referral Method</p> <p><input type="radio"/> E-mail ERTS number</p> <p><input type="radio"/> E-mail attachment</p> <p><input checked="" type="radio"/> Print</p> <p><input type="radio"/> Telephone</p>	<p>Person Referred to SNOH HEALTH DIST - ALL ERTS EXCEPT DRUG LAB I</p> <p>Phone (425) 339-5250 Fax (425) 339-5254</p> <p>E-mail ghanada@shd.snohomish.wa.gov</p> <p>Program/Organization SNOHOMISH COUNTY</p> <p>Address 3020 Rucker Avenue</p> <p>City Everett WA 98201</p> <p>Region/Location ENVIRONMENTAL HEALTH</p> <p>Referral Date 2/8/2005</p>	<p>Referral # 80419</p> <p>Primary <input type="checkbox"/></p>

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Followup

<u>Inspector Information</u>		<u>Where did it happen</u>		Followup #1
Referral # 76502		Berth	Anchorage	
<input type="checkbox"/> Lead Inspector BERNARD, CHARMAINE		Location Name	SCHLEUTER PROPERTY	
Program/Organization SPILLS, PREVENTION, PREPAREDNESS AND RESPONSE		Street Address	1515 196TH ST SE	
* Region/Location NWRO		Other Address		
# of Ecology Staff 2	Overtime <input type="checkbox"/>	City/Place	BOTHELL SNOH	State WA Zip
<u>Action</u>	Start Date	End Date	County SNOHOMIS	Region NWRO FS ID
FIELD RESPONSE - INVESTIGATION	1/26/2005	1/26/2005	Waterway	NORTHCREEK Type CREEK
			WRIA #	
<u>What happened</u>	Spills Program Oil Spill? N	Latitude	47.82033	Longitude 122.21169
Incident Date 1/26/2005		Topo Quad 1:24,000	BOTHELL	
<u>Medium</u>		Direction/Landmark (mile post, cross roads, township/range)		
OTHER				
<u>Material</u>				
OTHER - SEE NOTE				
Quantity Unit Est				
1 EACH				
<u>Source</u>	Regulated? <input type="checkbox"/>	<u>Potentially Responsible Party Information</u>		
OTHER		Check if the primary PRP provided notice to Ecology <input type="checkbox"/>		
		Primary <input checked="" type="checkbox"/>	First	Last
<u>Cause</u>		Name	HELMUT	SCHLEUTER
DUMPING		Business Name		
		Street Address		
<u>Activity</u>		Other Address		
DUMPING		City	State WA	Zip
<u>Impact</u>		Phone	Ext	Type
POTENTIAL POLLUTION/RELEASE		E-mail		
<u>Vessel</u>				
<u>Narrative</u>				
<p>1/26/05 am Called back Jon Morrow to get some information about the ownership of the site. He said it is technically about 1/4 mile outside of his jurisdiction but he has an interest in the property because in the future it will be annexed into Bothell's city limits. He reported he was at the site this morning with the Fire Marshall who has a child that attends the Northcreek school across the street. He said the lady at the school knows all about the property's history. He said the property has been through a lot of abuse. He said it is rumored that there was a drug lab onsite about a year ago. He said there are a lot of 55 gallon drums and 5 gallon buckets scattered about along with piles of sandblast grit. The site is completely accessible to the public and school kids from across the street like to play there. It may be undergoing a voluntary clean-up for all he knew. I said I would make some calls and get back to him.</p> <p>Called Donna Musa. She looked up the location in ISIS but found no listing. She said the Haz waste Compliance unit may be interested. Called Dave Misko and gave him a run down. He said all of his inspectors were in the field but I could have Tracie forward the ERTS to him and Daylin Davidson and he would have Warren Walton follow-up on it and/or work jointly with whichever program has more time/appropriate authority. I said I could check out the ERTS's credibility first.</p> <p>12:40 Dick Walker and C. Bernard arrived onscene. Dick was very familiar with the site since he was there responding to Jonelle Fenton-Wallace from Snohomish Health District request to remove a few drug lab related items from the location last year after which the county supposedly cleaned up on of the parcels in question. The site we visited was filled with trash scattered around a camper. There was several abandoned vehicles and three 55 gallon drums laying on their sides that had residual liquid in them, (probably rainwater.) We walked around the property a while, did not see the large amounts of waste described in the intial report. Dick recommended we leave this location in the hands of the local health district since they are very familiar with it. He recommended I have Jon contact Jonelle directly. Called back Jon. He was quick to remind me the site is outside of his jurisdiction but added he doesn't wasn't to inherit a problem when it becomes city property and that he wants to stay in the loop so that he can keep the Fire Marshall notified. He added there was quite a bit of contamination to the west. I said I only saw a few mostly empty drums and solid waste. He said we needed to go further to the west where there are closer to thirty drums. I asked Dick if we could return to the site after lunch to inspect the parcel to the west which he said was the one the county had already cleaned up.</p> <p>1:40 Arrived on scene to a gated property that had a small farm house, a trailer and two outbuildings on it. It was also strewn with waste/debris. There was a grassy area with three empty drums on their side. There was an upright drum in one of the outbuildings and a few five gallon buckets of paint related material. One had latex paint mixing with rainwater and flowing onto a concrete pads it was sitting</p>				

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on. None of the containers threatened the creek which was a ways away, (about 1/4 block.) We did not see the thirty drum Jon reported nor the pallet of asbestos/sandblast grit. All waste/trash was contained on the private property.

4:00pm Called Tracie with instructions to forward to Jonelle since the Spills program does not have authority over solid waste. Forwarded ERTS to Dave Misko as an FYI.

-----Original Message-----

From: Fenton-Wallace, Jonelle [mailto:JFW@co.snohomish.wa.us]
Sent: Wednesday, January 26, 2005 6:27 PM
To: Bernard, Charmaine; jfenton@shd.snohomish.wa.gov; Misko, David
Subject: Re: Bothell Private Property Dump Site

Charmaine,
Received your photos. We are aware of the site and working with the property owner and will be doing some sampling there soon for MTCA SHA purposes. The actual site address is 1515 196th St SE, and the owner is Helmut Schleuter. The site has had lots of dumping and we are working with Mr. Schleuter re his responsibility regarding the site. Jonelle...
Jonelle Fenton-Wallace

-----Original Message-----

From: Bernard, Charmaine <CHAS461@ECY.WA.GOV>
To: 'jfenton@shd.snohomish.wa.gov' <jfenton@shd.snohomish.wa.gov>; Misko, David <DMIS461@ECY.WA.GOV>
Sent: Wed Jan 26 16:49:57 2005
Subject: Bothell Private Property Dump Site Photos

<<DSC00723.JPG>> <<DSC00722.JPG>> <<DSC00721.JPG>> <<DSC00724.JPG>>

DSC00723.JPG;DSC00722.JPG;DSC00721.JPG;DSC00724.JPG

Scanned for viruses by Snohomish Health District

Vessel Emergency

Entry Person: BERNARD, CHARMAINE

Entry Date 1/26/2005

Inspector Information

Where did it happen

Followup #2

Referral # 76531

Berth

Anchorage

Lead Inspector SNOH HEALTH DIST - DRUG LAB ISSUES, J

Location Name SCHLEUTER PROPERTY

Program/Organization SNOH. HEALTH DIST. DRUG LAB ISSUES

Street Address 1515 196TH ST SE

Other Address

* Region/Location NWRO

City/Place BOTHELL SNOH State WA Zip

of Ecology Staff

Overtime

County SNOHOMIS Region NWRO FS ID

Action

Start Date End Date

Waterway NORTH CREEK Type CREEK

E-MAIL

1/26/2005 1/26/2005

WRIA #

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What happened

Spills Program Oil Spill? N

Latitude

Longitude

Topo Quad 1:24,000 BOTHELL

Direction/Landmark (mile post, cross roads, township/range)

Incident Date

Medium

SURFACE WATER-FRESH

Material

OTHER - SEE NOTE

Quantity Unit

Est



Potentially Responsible Party Information

Check if the primary PRP provided notice to Ecology

Source

Regulated?

COMMERCIAL

Primary

First

Last

Name Helmut Schleuter

Business Name

Street Address 1515 196th St SE

Other Address

City BOTHELL State WA Zip

Phone Ext Type

E-mail

Primary

First

Last

Name SCHLEUTER

Business Name

Street Address

Other Address

City State Zip

Phone Ext Type

E-mail

Activity

DUMPING

Impact

WATER POLLUTION

Vessel

Narrative

From: Fenton-Wallace, Jonelle [mailto:JFW@co.snohomish.wa.us]
 Sent: Wednesday, January 26, 2005 6:33 PM
 To: Walters, Tracie (ECY)
 Subject: Re: You've got ERTS! 545943

Tracie,
 Received the ERTS. We are already aware of the site and working on it. I will assign the ERTS to Geoffrey Crofoot here at SHD, as he will be doing some MTCA SHA sampling soon. For your records, the actual site address is 1515 196th St SE, Bothell. The property owner is Helmut Schleuter. We are in contact with Mr. Schleuter re his responsibilities at the site. Jonelle...
 Jonelle Fenton-Wallace

Vessel Emergency

Entry Person: WALTERS, TRACIE

Entry Date 1/27/2005

Inspector Information

Referral # 76584

Lead Inspector MUSA TCP, DONNA

Program/Organization TOXICS CLEANUP

* Region/Location NWRO

of Ecology Staff 1 Overtime

Action

TCP - SIS

Start Date 6/23/2005 End Date 6/23/2005

Where did it happen

Followup #3

Berth Anchorage

Location Name SCHLEUTER PROPERTY

Street Address 1515 196TH ST SE

Other Address

City/Place BOTHELL SNOH State WA Zip

County SNOHOMIS Region NWRO FS ID

Waterway NORTH CREEK Type CREEK

WRIA #

Department of Ecology - Environmental Report Tracking System

ERTS # 545943

What happened

Spills Program Oil Spill? N

Latitude

Longitude

Incident Date

Topo Quad 1:24,000 BOTHELL

Medium

Direction/Landmark (mile post, cross roads, township/range)

SOIL

Material

OTHER - SEE NOTE

Quantity Unit

Est

Potentially Responsible Party Information

Check if the primary PRP provided notice to Ecology

Source

Regulated?

Primary

First

Last

COMMERCIAL

Name

SCHLEUTER

Cause

DUMPING

Business Name

Street Address

Other Address

City

State WA

Zip

Activity

DUMPING

Phone

Ext

Type

Impact

SOIL CONTAMINATION

E-mail

Vessel

Narrative

1/31/05

GEOFFREY CROFOOT CALLED TO LET ME KNOW THAT THEY ARE ON THIS CASE AND TO MAKE SURE THAT IT IS OFFICIALLY AN II/SHA REFERRAL. THEY ARE ALREADY WORKING ON THIS SITE.

May 16, 2005

Received SHD Field Investigation Report and II Field Report.

6/23/05

Snohomish County says ``Soil samples confirm NWTPH heavy oil contamination in the soil at this site. Soil sampling has confirmed the presence of cadmium at the site in levels that exceed MTCA method A clean up standards for soil. For these reasons the SHD recommends that the site should be added to the Suspected Contaminated Confirmed Sites List (SCCS).``

I concur, site to be listed on CSCS confirmed for heavy oil, lead and cadmium in soil.

See site file ``Schleuter Property`` for more details.

Musa

Vessel Emergency

Entry Person: MUSA ERTS, DONNA

Entry Date 1/31/2005

Inspector Information

Referral # 80419

Lead Inspector CROFOOT, GEOFF

Program/Organization SNOHOMISH COUNTY PUBLIC HEALTH DEPT

* Region/Location SNOHOMISH COUNTY PUBLIC HEALTH DE

of Ecology Staff

Overtime

Action

FIELD RESPONSE - INVESTIGATION

Start Date

End Date

2/8/2005

5/16/2005

Where did it happen

Followup #4

Berth

Anchorage

Location Name SCHLEUTER PROPERTY

Street Address 1515 196TH ST SE

Other Address

City/Place

BOTHELL SNOH

State WA

Zip

County

SNOHOMIS

Region NWRO

FS ID

Waterway

NORTHCREEK

Type CREEK

WRIA #

Department of Ecology - Environmental Report Tracking System

ERTS # 545943

What happened

Spills Program Oil Spill? N

Latitude

Longitude

Incident Date

Topo Quad 1:24,000 BOTHELL

Medium

Direction/Landmark (mile post, cross roads, township/range)

SOIL

SURFACE WATER-FRESH

Material

OTHER - SEE NOTE

Quantity Unit

Est



Potentially Responsible Party Information

Check if the primary PRP provided notice to Ecology

Source

Regulated?

Primary

First

Last

COMMERCIAL

Name

SCHLEUTER

Cause

DUMPING

Business Name

Street Address

Other Address

City

State WA

Zip

Phone

Ext

Type

Activity

DUMPING

Impact

WATER POLLUTION

Vessel

Narrative

II Summary

April 27, 2005

Site Name:Schlueter Property

Section: Township: Range18 27N 5E

Site Address1515 196th St SE

Ecology Facility Site ID

City: County: State: Postal Code:Bothell Snohomish WA 98012

ERTS545943

Lat:

Long:

Site Summary:

Site Location and Description

The Schlueter property is located1515 196th St. SE Bothell and will here after be referred to as the site. The site is located one-quarter mile west of the Bothell Everett Hwy. The site is less that 100 feet northeast of North Creek, which is a year round creek that flows to the Sammamish River, and eventually to Lake Washington. The site is surrounded by rural/residential properties. The site is vacant. It appears to be partially developed with light industrial remnants. Portions of the property are covered with high grass and Alder trees. The site consists of several structures. A red barn located on the western most portion of the property. Close to the center of the property there is an open walled, covered, paved work area. The footprint of the paved area extends from under the cover 30-40 feet to the south. To the east of the paved area is an enclosed production facility. On the east side of this production facility is a graded, graveled space approximately one half acres in size. The rest of the property is overgrown with high grass and scrub weeds.

Site History

On September 1, 2000, the Snohomish Health District (SHD) received a complaint concerning the possible dumping of oil and antifreeze into North creek. The complaint also noted that contaminated soils had been brought from a Seattle shipyard to the northwest corner of the property.

Deanna Colon, of the SHD initially responded to the complaint. Colon noted considerable soil staining around the concrete pad, and on the eastern, graded portion of the property. The complaint was, in turn, assigned to Gary Hanada and Geoffrey Crofoot who conducted a routine site visit on September 22, 2000 for the purposes of an initial investigation (II.)

Crofoot and Hanada confirmed soil staining on the northeast portion of the property. Dumping in to North Creek was not confirmed.

The staining appears to be leaked or spilled petroleum products. The stains account for approximately 20 square feet of contamination. Use of the Photoionization Detector (PID) at the time of the site visit did not indicate elevated levels of Volatile Organic Compounds (VOC's.) Suspected pollutants in this area were heavy oils, diesel and potentially, metals.

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On the western side of the property approximately 50-70 feet north of 196th SE Crofoot and Hanada noted imported piles of soil. The piles of soils can be clearly seen from 196th St. SE. At the time of the September 22, 2000, site visit, the soils appeared to have been in place for several years due to the degree of vegetation uniformly covering the top of the piles. Noted no stressed vegetation in this area.

Crofoot and Hanada spoke with the closest neighbor to the west who noted that in order to dump into the creek a person would have to access her property. She said she would have probably seen suspicious activity since she is at home most of the time. She noted that the property in question had been used as a construction yard where machinery was stored.

No samples were taken at the time of inspection.

As a result of the inspection a letter was drafted and sent on November 3, 2000, to the property owner. The letter requested permission to re-access the property and take soil samples. On November 11, 2000, Jeral Stewart, a part owner, responded to the letter by phone and stated that he did not want the SHD on his property. As a result, no samples were collected at the site.

Due to the lack of analytical evidence and the observed staining the SHD recommended to Ecology that the site be listed on the Suspected and Confirmed Contaminated Sites (SCCS) list.

On August 8, 2003, the SHD received a complaint at the site regarding illegal dumping. On August 19, 2003 Melissa Spencer of the SHD investigated the complaint and confirmed the dumping.

On October 20, 2003, a Snohomish County Grant funded clean-up crew noted that a silver trailer parked at the site smelled strongly of ammonia. A methamphetamine laboratory (meth lab) was suspected.

On October 31, 2003, the SHD received a complaint concerning a meth lab at the site. The presence of the lab was confirmed by Jonelle Fenton Wallace, of the SHD.

On March 15, 2004, the SHD received a complaint concerning illegal dumping at the site. On March 18, 2004. The complaint was confirmed. In addition, the vacant property appeared to be a haven for vagrants and drug activity.

On August 2, 2004, yet another complaint was received regarding illegal dumping at the site. Melissa Spencer confirmed the violations. At the time of the complaint there appeared to be an on-going meth lab investigation/action at the site.

On January 26, 2005, the SHD received an ERTS referral from Ecology regarding the site. The ERTS referral noted that the site had many leaking drums of chemicals and piles of material that look like sand blasting grit. The complaint also noted pallets of asbestos.

Considering the history of the site, the SHD planned to conduct a site visit with the intention of collecting soil samples.

Recent Sampling Events

On February 9, 2005, the SHD collected 8 samples from in a rough line extending across the approximate center of the property in an east/west orientation.

The SHD looked for low areas where standing water may have occurred, soil staining, and areas of stressed vegetation.

Both channel samples and discrete samples were collected where appropriate. Analysis included, NWTPH Dx and metals (As, Cd, Cr, and Pb.) Please see table one which details the sampling activities. Simple jar packing methods were used for the aforementioned analysis as no volatiles analyses were planned. Soil was collected in 4oz glass jars and sealed with Teflon coated lids. Containers were placed on double-bagged ice packets and stored in a cooler for export to the lab. Samples were sent to Edge Analytical in Burlington, WA for analysis.

Sample locations were photographed and a GPS unit was used to determine the latitude and longitude of the location.

See the attached figure one with site map for sample locations.

Surface Water and Ground Water Features

As previously mentioned, the site is less than 100 feet northeast of North Creek, which is a year round creek that flows to the Sammamish River, and eventually to Lake Washington.

Ground and Surface Water Uses

Fifty-two drinking water wells were located within an approximate two-mile radius of the site. A population of 156 appears to be served by ground water in the area. Wells are completed with in the range of 26 to 210 feet below ground surface (bgs.) Static water levels range from 8 feet bgs to 110 bgs.

Surface water uses, for irrigation or public supply were not researched for this summary. However, the Alderwood Water District serves the area. The Alderwood Water District receives water from the City of Everett. Neither the Alderwood nor Everett water systems have surface water collection within two miles of the site.

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Compounds of Concern and Sampling Results

The compounds of concern at the site heavy metals (As, Cd, Cr, Pb and Hg) and lube oil range hydrocarbons. Impacts to soil have been confirmed with soil sampling.

Areas of Impact

The area of impact is soil. The area on the northeast portion of the red barn identified as S-S5 has levels of NWTPH heavy oil and lead are considerably higher than the MTCA Method A clean up levels for soil. It is noteworthy that sample S-S5 was collected from a small area that has THP contamination with waste oil. Additional areas of impact are the piles of clay like material found at the site. The piles have levels of Cd that exceed MTCA Method A levels for soil.

Recommendation

Soil samples confirm NWTPH heavy oil contamination in the soil at this site. Soil sampling has confirmed the presence of cadmium at the site in levels that exceed MTCA method A clean up standards for soil. For these reasons the SHD recommends that the site should be added to the Suspected Contaminated Confirmed Sites List (SCCS).

2. Key Personnel Identified:

Geoffrey Crofoot - Sampling, Recording and Decontamination.
Melissa Spencer - Sampling, Recording and Decontamination

3. Request for Analysis Submitted:

Analysis has been pre-arranged with Edge Analytical, of 1151 Knudson Rd, Burlington WA 98233, (800) 755-9295

4. Sampling

February 9, 2005

Objectives:

- a. Obtain representative soil samples to establish, or confirm, identification/concentration of specific hazardous constituents;
- b. Document any contaminant release, as applicable (with reference to respective Model Toxics Control Act (MTCA) cleanup levels);
- c. Use data to assign WARM toxicity/release scoring values; or
- d. Document contaminant concentrations below applicable cleanup levels and use, with other site-specific considerations, to make a recommendation of 'No Further Action' (NFA) for the site.

Method

The SHD plans to use collect 8 samples from around the concreted area.

The SHD plans to look for low areas where standing water may have occurred, stains, and areas of stressed vegetation. If found these areas will be sampled.

There will be two types of sample collection completed. Channel sample from 6 inches to 24 inches below the ground surface will be collected. Discrete samples will be collected where appropriate. Analysis will include, NWTPH Dx and metals (As, Cd, Cr, and Pb.). Simple jar packing methods will be used for the aforementioned analysis. Soil will be collected in 4oz glass jars and sealed with Teflon coated lids.

Sample locations will be photographed and a GPS unit will be used to determine the latitude and longitude of the location.

Locations:

See the attached site map for sample locations.

Types of Samples:

Sampling will consist of subsurface soil samples. Analysis of samples will consist of NWTPH-Dx and, metals (As, Cd, Cr, and Pb.).

Frequency of Sampling:

Sampling will occur 8 times with a maximum of 8 samples sent to edge for analysis.

Containers:

Samples will be collected using a disposable plastic scoop for the TPH and metals. Samples will be placed in 4 oz glass jars supplied by Edge Analytical. Samples will be sealed with Teflon coated lids.

Preservative:

Containers will be iced with double-bagged ice packets and stored in a cooler for export to the lab.

Equipment decontamination:

One-time use gloves will be disposed of in a plastic bag and added to the solid waste stream. Re-useable equipment will be scraped clean and cleaned on site with water pumped from an SHD vehicle.

5. Investigative Waste: There will likely be no investigative waste. Gloves and other disposable items will be removed from the site and disposed of in the solid waste stream. Soil will be removed from the site in the form of samples. A small volume of water used in

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decontamination of tools will be left at the site.

6. Site Specific Analytical Considerations: Sample locations and numbers of samples may change base on observations during the site visit.

7. Field Sample Data and Chain of Custody Sheet: These will be completed on site prior to sampling.

8. Laboratory QA/QC: All analysis will be done by Edge Analytical, of 1151 Knudson Rd, Burlington WA 98233, which is a certified lab in all parameters that will be requested.

9. Field QA/QC

Field Blanks

No transfer blanks will be used.

Split Samples:

No split samples will be conducted at this time.

Vessel Emergency

Entry Person: MUSA ERTS, DONNA

Entry Date 5/31/2005