Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program



APPLICATION FORM

Under the Voluntary Cleanup Program (VCP), the Department of Ecology (Ecology) may provide informal site-specific technical consultations to persons conducting independent remedial actions at a hazardous waste site. Ecology may provide such consultations under the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW, and its implementing regulations, Chapter 173-340 WAC.

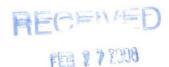
To request technical consultations under the VCP, you must submit an application to Ecology. That application must include, at a minimum, the following documents:

- VCP Application Form (including required attachments);
- VCP Agreement.

For guidance on how to complete your VCP application, including this Application Form, please refer to the Application Instructions, which are available separately. All of these documents are available for downloading on the VCP web site: http://www.ecy.wa.gov/programs/tcp/vcp/vcpmain.htm.

Part 1 - ADMINISTRATION							
Client Information. The "Client" is the person or entity seeking informal site-specific technical consultations from Ecology under the VCP. This person must sign the VCP Agreement and is responsible for payment of those costs incurred by Ecology in providing the requested consultative services. Please enter the required information below.							
Name: Eric Weber			Title: Prir	ncipal			
Organization: Landau Associates							
Mailing address: 950 Pacific Avenu	ue, Suite 515						
City: Tacoma		State: WA		Zip: 98402			
Phone: 253.926.2493	Fax: 253.926.2531	E-mail: eweber@landauinc.cor					
What is the Client's involvement at t	he Site? Please che	ck all that appl	y.				
□ Property owner □ Business owner (operator) □ Past property owner □ Mortgage holder □ Future property owner □ Consultant □ Property lessee □ Attorney □ Other – please specify:							
If not the current property owner, is the Client acting as the agent for the property owner?							
If not the current property owner, is the Client authorized to grant access to the property?							
☐ Yes ⊠ No	15						

F/S#5774537



Washington State
Department of Ecology



Property Owner Information please enter the required inform			Client). If the Cli	ent is not t	the current property owner,
Name: John O'Loughlin				Title:	
Organization: City of Tacom	а				
Mailing address: 2201 Portla	nd Avenue)			
City: Tacoma			State: WA		Zip: 98421
Phone: 253.502.2175	Fax: 25	3.502	2.2107	E-mail: joloughl(@ci.tacoma.wa.us
What type of entity is the prope	erty owner?	Please	e check only one.		
☐ Private ☐ Tribal ☐ Federal ☐ State ☐ Other – pleas	e specify:		County Municipal Mixed Public School		
Billing Contact Information (statements to an address diffe Please note that the Client will	rent than the	Clien	t's above, please	enter the	required information below.
Name:				Title:	
Organization:					
Mailing address:					
City:			State:		Zip:
Phone:	Fax:			E-mail:	
What type of entity is the prope	erty owner?	Please	e check only one.		
☐ Private ☐ Tribal ☐ Federal ☐ State ☐ Other – pleas	se specify:		County Municipal Mixed Public School		
Services Requested by Clier	nt.				
What type of independent re application for review under the					itting to Ecology with your
☐ Interim action☐ Interim action☐ Cleanup actio☐ Cleanup actio☐	report on plan		Remedial investion Remedial investion Feasibility study Other – please Delisting	gation report	ort

Do you want Ecoremedial action?	Do you want Ecology to provide you with a written opinion on the planned or completed independent remedial action?							
⊠ Y	′es 🗌 No							
Maria Supering the property of the control of the c								
 Whether furth 								
Instructions for	Data Submittal.							
the data in both management sy Ecology's Toxic report submitted	In accordance with WAC 173-340-840(5), when submitting any sampling data to Ecology, please submit the data in both a printed form and an electronic form capable of being transferred into Ecology's data management systems. The data must be submitted consistent with the procedures specified in Ecology's Toxic Cleanup Program Policy 840 (Data Submittal Requirements). Please note that any report submitted to Ecology for review under the VCP that does not comply with these data submittal requirements will be considered incomplete by Ecology.							
Part 2 - DESCF	RIPTION OF THE	SITE						
Name of the Sit	e. Please enter the	name of the Site b	pelow.					
Name: 35th Stree	t Landfill							
Alternate Name	None							
Location of the	Site.							
Reference Poin	t.							
Do you know wh source property)		source of the relea	se(s) of hazardous	substances at the Site (i.e.,				
⊠ `	es answering t	he following quest	1.0	the "source property" when location of the Site, even if your nat property.				
	by your ind regarding th	ependent remedia	al action when an Bite. An affected p	"affected property" addressed swering the following questions roperty is a property affected by				
Physical Addre	ss. Please enter the	e physical address	of the property be	elow.				
Name: 35th Stree	t Landfill	127/8						
City: Tacoma	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		State: WA	Zip: 98418				
	sition – Latitude (L rt of the application			ditional guidance on how to instructions.				
COORDINATES	LATITUDE:	Degrees: 47	Minutes: 13	Seconds: 45.56				
	LONGITUDE:	Degrees: 122	Minutes: 25	Seconds: 58.16				
	ATION ON PROPERTY: elease or center of parcel]	Center of Site						
COLLECTION METHOD: [e.g., GPS or address matching]								
	COLLECTION SOURCE: [i.e., map scale]	Map at approximate	ely 1" = 180 ft					
[i.e., base referer	HORIZONTAL DATUM:	Lat/Long						

A	ACCURACY LEVEL: e., +/- feet or meters]) ft					
Legal Descriptions	s.						
TRS DATA:	Township: 20N	Range: 03E	Section: 9	Quarter-Quarter: SW/SE			
TAX PARCEL #(s):	2084140040, 2084140050, 2085130060, 2085130070, 2085140040, 2085140070						

Exte	ent of the Site.
Wha	t is the approximate areal extent of the Site? Please check only one.
	 < 5,000 square feet < 5,000 square feet, but < 1 acre < 1 acre, but < 10 acres < 10 acres Unknown
Prop	perties Affected by the Site.
	any of the releases on the source property affect any properties adjacent to the source property octed properties)?
	☐ Yes ☐ No ☐ Unknown
the	u answered "YES" above, then please identify each property that you know has been affected by release(s) on the source property. If you need to identify additional properties, please attach tional pages.
1.	Address:
	Tax Parcel(s):
2.	Address:
	Tax Parcel(s):
3.	Address:
	Tax Parcel(s):
4.	Address:
40.00	Tax Parcel(s):
1	any of the releases affect any right-of-ways (e.g., streets) located on or adjacent to the source perty?
	☐ Yes ☐ No ☐ Unknown
If yo	u answered "YES" above, please specify:
Is th	e source property affected by any release(s) on properties adjacent to the source property?
	☐ Yes ☐ No ☐ Unknown
If yo	u answered "YES" above, please specify:
Des	cription of Release(s) at the Site.
Sou	rce of Release(s).
Wha	at are the source(s) of the release(s) at the Site? Please check all that apply.
	 □ Point source (e.g., leaking tank) □ Non-point source (e.g., contaminated soil used as fill) □ Area-wide lead and arsenic soil contamination (see Question #4 below) □ Other – please specify: □ Unknown
100000000000000000000000000000000000000	the extent known, please describe the source(s) of the release(s): Inert waste such as soil, concrete, and halt; street sweepings and catchbasin cleanings

Circumstances of Release(s). To the externelease(s).	ent known, ¡	please descr	ibe below th	e circumstan	ces of the
The site is a natural ravine that was used as a language 1990. The bulk of the fill material was placed on 1965. The fill consists primarily of soil mixed with soil. Between 1985 and 1990 the site was used street sweepings and catchbasin material was represented by the City regraded the site to provide great topsoil and seeded with grass.	during the control of the dispose portedly disp	onstruction of materials such of street sweet oosed of prima	I-5/I-705 ext h as waste co epings and ca rily in the no	ension betwee ncrete, asphalt atchbasin clean orthern part of	n 1960 and brick, and nings. The the site. In
Circumstances of Release Discovery. circumstances of the discovery of the releas		extent kno	wn, please	describe b	pelow the
An environmental assessment was conducted by gas production from the landfill. The study include of the landfill slope, and vapor analysis from metals, TPH, volatile organic compounds (pur priority pollutant metals, TPH, and volatile organic methane, benzene, toluene, ethylbenzene, xylene Area-Wide Soil Contamination. For guida please refer to the application instructions a following Ecology web site: http://www.ecy.w	m gas probes geables), and ganic compos and diesel. ance on ho	mples from te s. Soil sample d TCLP. Surf unds (purgeal w to comple a-wide soil co	est pits, surfaces were analycace water sables). Air sable this part ontamination	re water sample vzed for priori mples were a mples were a mples were a tool box local tool box local results.	es from the ty pollutant nalyzed for nalyzed for ation form, ated at the
Is the Site located within an area affected I area, or on a former apple or pear orchard in Yes No Unkr Does the Site contain area-wide arsenic and Yes No Unkr	n operation nown d/or lead soi	prior to 1947	?	Гасота Sme	lter Plume
Nature and Extent of Hazardous Substance	es Release	ed at the Site	э.		
Hazardous Substances and Affected Meditable the hazardous substances released at substances using the codes at the bottom of	the Site and				
		A	FFECTED MED	DIA	
HAZARDOUS SUBSTANCE	Soil	GROUND WATER	SURFACE WATER	SEDIMENT	AIR
EXAMPLE: Benzene	С	S	N/A	N/A	В
ТРН	В	N/A	U	N/A	0
VOCs	0	N/A	В	N/A	В
Arsenic	C	N/A	С	N/A	N/A
Priority Pollutant Metals other than arsenic	В	N/A	В	N/A	N/A

When identifying the affected media in the table above, please use one of the following codes:

C = confirmed, above cleanup level

B = confirmed, below cleanup level

O = confirmed, not present

S = suspected

N/A = not suspected

- U = unknown

Drinking Water.								
Does any of the contamination at the Site pose a threat or potential threat to an existing drinking water source (ground water or surface water)?								
☐ Yes No ☐ Unknown	☐ Yes ☐ No ☐ Unknown							
If you answered "YES" above, what type of drinking water system is threatened by the contamination? Please check all that apply.								
☐ Single Family ☐ Community								
Indoor Air.								
Are contaminate odors present in any buildings, manh	oles, or	other conf	ined spaces?					
☐ Yes No ☐ Unknown								
If you answered "YES" above, please specify:								
Maps of the Site.								
 The location of the site The properties affected by the site The source(s) of the release(s) at the site The nature and extent of contamination at the site Any human or ecological receptors impacted by the site (e.g., drinking water wells) The physical characteristics of the site (e.g., property lines, building and road outlines, surface water bodies, water supply wells, ground water flow direction, and utility right-of-ways) The properties adjacent to the site and the uses of those properties (e.g., gas station, dry cleaner, residential). 								
Part 3 – OPERATIONAL HISTORY OF THE SITE								
Current Use of Source Property. Note that the follonot other properties affected by the Site. Please answ								
Current Property Owners. To the extent known, pleasource property.	ise iden	tify below	the current owner(s) of the					
Name: John O'Loughlin		Title:						
Organization: City of Tacoma								
Mailing address: 2201 Portland Avenue								
City: Tacoma	State:	WA	Zip code: 98421					
Phone: 253.502.1275								
Current Business Owner (Operator). To the extent the business located on the source property.	nown, ړ	olease ide	ntify below the current owner of					
Name: No businesses are located on the property		Title:						
Organization:								
Mailing address:								
City:	State:		Zip code:					
Phone:								

the business located on the sour	rce property.	the current operations of				
What is the current land use of the	he source property? Please check all that app	oly.				
□ Residential □ School □ Commercial □ Childcare facility □ Industrial □ Park □ Agricultural ☑ Other – please specify: Undeveloped						
Is there a currently operational of	commercial or industrial business located on the	ne source property?				
☐ Yes ⊠ No	Unknown					
	please identify in the following table the cutry Classification System (NAICS) codes and					
NAICS CODE	DESCRIPTION OF OPERATIONS					
EX: 447110	Gasoline Stations with Convenience Stores					
Is there a solid waste handling fa	acility located on the Source Property?					
☐ Yes ⊠ No	Unknown					
If you answered "YES" above, p	lease identify:					
Is there a dangerous waste treat	tment, storage, or disposal facility located on t	he Source Property?				
☐ Yes ☐ No	Unknown					
If you answered "YES" above, p	lease identify:					
Regulation of Current Busine	ss Operations.					
Does the business operate und substances into the environment Yes No	er any federal, state, or local permits related to at (e.g., NPDES permit)? Unknown	the release of hazardous				
		ome of the permit and the				
	If you answered "YES" above, please specify the regulated operation, the name of the permit, and the date it was issued in the table below.					
REGULATED OPERATION	PERMIT	DATE ISSUED				
EX: Wastewater discharge	NPDES permit	02/02/02				
Has a state or federal notice of enforcement action (e.g., notice of violation) ever been issued related to the release of hazardous substances at the business?						
☐ Yes ⊠ No	Unknown					
If you answered "yes" above, please specify (notice and year issued):						

Have business operproperty?	erations re	esulted in	any othe	r spills o	or othe	r unpermi	tted releases	on the	source
☐ Yes	⊠ N		Unknown						
If you answered "YE		V			nelow				
RELEASE	o abovo		OF RELEA		ociow.	STAT	US OF RELEASE		
			3, 1,333						
Storage Tank Info underground storage property, irrespective answers to specific	ge tanks (l	JST) that her the tar	nave beer nks are st	n used fo ill in use	r storing or in pla	g hazardo ace. <i>If you</i>	us substances u are unable to	on the	source
ID.	ENTIFICATIO	N			STATI	JS AND CLC	SURE	REL	EASES
Hazardous Substance	Type (AST/UST)	Size (Gallons)	TANK ID	DATE INSTALL	IN USE (Y/N)	DATE CLOSED	CLOSURE METHOD (*)	PAST (Y/N)	CURRENT (Y/N)
EX: Diesel	UST	10,000	4	02/87	N	05/98	Removed	Y	N
none known									
								-	
							/		
Past Use of Source	e Propert	y Note th	at the fol	lowing a	uestions		tions = Removed		
other properties aff									ty, not
Past Property Own property.	ners. To	the extent	known, p	lease ide	ntify be	low the cu	urrent owner(s) of the	source
Name: None known	n				Ti	tle:			
Organization:									
Mailing address:			T.						
City:				St	ate:	1, -4, 4	Zip code:		
Phone:		Fax:				E-ma	nil:		
Past Business Ow of the source prope		erators).	To the ext	tent know	n, plea	se identify	below the cui	rent ow	ner(s)
Name: None know	n				Ti	tle:			
Organization:									1111
Mailing address:									
City:				St	ate:		Zip code:		
Phone: Fax: E-mail:									

	Operations. Please identify in the following table the past operations ree property using the North American Industry Classification System the operations.
NAICS CODE	DESCRIPTION OF OPERATIONS
EX: 447110	Gasoline Stations with Convenience Stores
none known	
	cted Properties. The following questions refer to both source and ver these questions to the best of your ability.
Will any ownership interest in the of, the cleanup?	source or affected properties be conveyed prior to, or upon completion
☐ Yes ☐ No	☑ Unknown
If you answered "YES" above, ple	ease specify:
Will any of the source or affected the cleanup?	d properties, or portions of those properties, be redeveloped as part of
☐ Yes ☐ No	☑ Unknown
If you answered "YES" above, ple	ease specify the proposed land use below. Please check all that apply.
Residential Commercial Industrial Agricultural Other – please spe	School Childcare facility Park ecify:
Please also specify the activities	proposed for that land use:
Part 4 – ADMINISTRATIVE HI	STORY OF THE SITE
Have you previously reported the	release(s) of hazardous substances at the Site to Ecology?
☐ Yes – If so, whe	n? No 🔲 Unknown
Has the cleanup of the Site, or ar	ny portion of the Site, ever been managed under the VCP?
☐ Yes – If so, plea ☑ No ☐ Unknown	se specify the VCP Project ID#:
Has the cleanup of the Site, or order or decree?	any portion of the Site, ever been managed under a federal or state
☐ Yes – If so, plea ☑ No ☐ Unknown	se specify the type and docket #:

Pai	Part 5 – DESCRIPTION OF INDEPENDENT REMEDIAL ACTIONS AT THE SITE							
Sco	ppe of Remedial Actions.							
Do you plan to characterize and address all of the contamination at the Site, including any contamination located on affected adjacent properties, as part of the VCP project? Yes No Unknown								
If you answered "NO" above, please describe below the scope of the VCP project, including the contamination (properties, portions of a property, media and/or hazardous substances) that you DO NOT plan on characterizing and/or addressing as part of the VCP project. Please include additional pages if necessary.								
Sta	tus of Remedial Actions.							
Wh	at is the current status of re	medial actions at	the site? Please ched	ck all that ap	ply in the	table below.		
REI	MEDIAL ACTION	PLANNED	ONGOING	COMPLETED	Not	APPLICABLE		
INIT	TAL RESPONSE (UST ONLY)					X		
INT	ERIM ACTION			X				
REI	MEDIAL INVESTIGATION			X	14			
FE/	ASIBILITY STUDY					X		
CLE	EANUP ACTION					X		
Do	cumentation of Remedial	Actions.						
•	ase list in the table below all The title of the plan or report The author (e.g. consulting The date the plan or report Whether the plan or report The date the plan or report	rt, firm) of the plan was produced, has been submit	or report, ted to Ecology,	s produced f	or the site	, including:		
	TITLE		AUTHOR	THE RESERVE OF THE PARTY OF THE	SUBMITTE	TO ECOLOGY		
	TITLE		AUTHOR	DATE	Y/N?	DATE		
EX:	John Doe's Property: Remedial Inve	stigation Work Plan	Mom's Consulting Firm	02/20/99	NO	N/A		
1.	Final Report, Environmental Site Street Landfill	Assessment, 35 th	Tacoma Refuse Utility	April 1992	Y	Feburary 2008		
2. Initial Investigation Report			Tacoma Pierce County Health Department	August 2005	Y	August 5, 2005		
3.		7 4						
4.	4.							
5.								
6.					200			
7.		110-16						
8.				1				
q								

10.

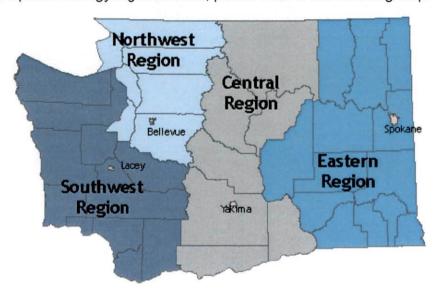
Part 6 – STATEMENT AND SIGNATURE							
Statement and Signature. The undersigned affirms that the information contained in this application is true and accurate to the best of his or her knowledge. Please note that someone other than the Client may sign this Application Form.							
Name: Eric Weber	Name: Eric Weber						
Organization: Landau As	sociates						
Mailing address: 950 Page	cific Avenue, Suite 515						
City: Tacoma		State:	WA Zip code: 98402		Zip code: 98402		
Phone: 253.926.2493	Fax: 253.926.2531		E-mail: eweber@landauing				
Affiliation.							
What is the signatory's involvement at the Site? Please check all that apply.							
☐ Client ☐ Property ☐ Consulta ☐ Attorney ☐ Other –	ant						

SUBMITTAL INSTRUCTIONS

To complete your application, please submit the following materials to the Ecology regional office for the County in which your Site is located:

- 1 X VCP Application Form (signed)
- 2 VCP Agreement (signed by Client)
- 3 Name Independent Remedial Action Plan(s) or Report(s) (see Part I.D of VCP Application Form)
- 4 Map(s) of the Site (see Part II.G of VCP Application Form)
- 5 Terrestrial Ecological Evaluation Exclusion Form (if applicable)

To identify the appropriate Ecology regional office, please refer to the following map:



Northwest Region: Attn: Sara Maser 3190 160 th Ave. SE	Central Region: Attn: Mark Dunbar 15 W. Yakima Ave., Suite 200		
Bellevue, WA 98008-5452	Yakima, WA 98902		
Southwest Region:	Eastern Region:		
Attn: Scott Rose	Attn: Patti Carter		
P.O. Box 47775	N. 4601 Monroe		
Olympia, WA 98504-7775	Spokane, WA 99205-1295		

If you have any questions regarding the application process or how to complete the forms, please contact the appropriate regional office contact listed below:

Northwest Region:	Central Region:
Russ Olsen, Unit Manager	Valerie Bound, Unit Manager
(425) 649-7038	(509) 454-7886
rols461@ecy.wa.gov	vdre461@ecy.wa.gov
Southwest Region:	Eastern Region:
Scott Rose, Acting Unit Manager	Keith Holliday, Unit Manager
(360) 407-6347	(509) 329-3431
sros461@ecy.wa.gov	khol461@ecy.wa.gov

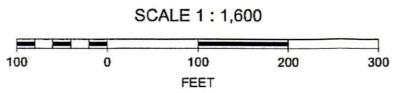
If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

ECY #020-74 (revised 11/07)



35th Street Landfill Site







Reservation of Rights / No Settlement

This Agreement does not constitute a settlement of liability to the state under MTCA. This Agreement also does not protect a liable person from contribution claims by third parties for matters addressed by the Agreement. The state does not have the authority to settle with any person potentially liable under MTCA except in accordance with RCW 70.105D.040(4). Ecology's signature on this Agreement in no way constitutes a covenant not to sue or a compromise of any Ecology rights or authority.

Ecology reserves all rights under MTCA, including the right to require additional or different remedial actions at the Site should it deem such actions necessary to protect human health and the environment, and to issue orders requiring such remedial actions. Ecology also reserves all rights regarding the injury to, destruction of, or loss of natural resources resulting from the release or threatened release of hazardous substances at the Site.

Effective Date, Modifications, and Severability

The effective date of this Agreement shall be the date on which this Agreement is signed by the Toxics Cleanup Program's Section Manager or delegated representative. This Agreement may be amended by mutual agreement of Ecology and the Client. Amendments shall be in writing and shall be effective when signed by the Toxics Cleanup Program's Section Manager or delegated representative. If any provision of this Agreement proves to be void, it shall in no way invalidate any other provision of this Agreement.

Termination of Agreement

Either party may terminate this Agreement without cause by sending written notice to the other party by certified mail, return receipt requested. The effective date of termination shall be the date Ecology sends notice to the Client or the date Ecology receives notice from the Client, whichever occurs first.

Under this Agreement, the Client is only responsible for costs incurred by Ecology before the effective date of termination. However, termination of this Agreement shall not affect any right Ecology may have to recover its costs under MTCA or any other provision of law.

Representations and Signatures

The undersigned representative of the Client hereby certifies that he or she is fully authorized to enter into this Agreement and to execute and legally bind the Client to comply with the Agreement.

STATE OF WASHINGTON FEB 2 7 2008	Landau Associates
DEPARTMENT OF ECOLOGY Washington	Name of Client
Marian Lakett sy	5,0~
Signature	Signature of Client or Client Representative
Marvan L. Abbett	ERIC WEBER
Printed Name	Printed Name of Signatory
Section Manager, SWRO	Principal
Toxics Cleanup Program Section	Title of Signatory
Date:2/28/08	Date: 2/26/08

Instructions: Please submit this Agreement to Ecology as part of the VCP application. Before submitting the Agreement, please provide the Client's name and the Site's address on the first page and complete the Client's portion of the signature block on the second page. If the application is accepted, Ecology will sign the Agreement and send the Client an acceptance letter that will include the completed Agreement as an enclosure.



washington State

For Office Administrative Use Only

ECOLOGY

VCP AGREEMENT

VCP Project No:

Facility/Site Name: 35th Street and Department of Ecology
Facility/Site No.: 5774537

This document constitutes an Agreement between the State of Washington Department of Ecology

(Ecology) and Landau Associates
(Client) to provide informal site-specific technical consultations under the Voluntary Cleanup Program (VCP) for the Site identified above and associated with the following address: 35th Street Landfill located at 35th Street East and Pacific Avenue

The purpose of this Agreement is to facilitate independent remedial action at the Site. Ecology is entering into this Agreement under the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW, and its implementing regulations, Chapter 173-340 WAC. If a term in this Agreement is defined in MTCA or Chapter 173-340 WAC, then that definition shall govern.

Services Provided by Ecology

Upon request, Ecology agrees to provide the Client informal site-specific technical consultations on the independent remedial actions proposed for or performed at the Site consistent with WAC 173-340-515(5). Those consultations may include assistance in identifying applicable regulatory requirements and opinions on whether the remedial actions proposed for or conducted at the Site meet those requirements.

Ecology may use any appropriate resource to provide the Client with the requested consultative services. Those resources may include, but shall not be limited to, those of Ecology and the Office of the Attorney General. However, Ecology shall not use independent contractors unless the Client provides Ecology with prior written authorization.

In accordance with RCW 70.105D.030(1)(i), any opinions provided by Ecology under this Agreement are advisory only and not binding on Ecology. Ecology, the state, and officers and employees of the state are immune from all liability. Furthermore, no cause of action of any nature may arise from any act or omission in providing, or failing to provide, informal advice and assistance under the VCP.

Payment for Services by Client

The Client agrees to pay all costs incurred by Ecology in providing the informal site-specific technical consultations requested by the Client consistent with WAC 173-340-515(6) and 173-340-515(6). Those costs may include the costs incurred by attorneys or independent contractors used by Ecology to provide the requested consultative services. Ecology's hourly costs shall be determined based on the method in WAC 173-340-550(2).

Ecology shall mail the Client a monthly itemized statement of costs (invoice) by the tenth day of each month (invoice date) that there is a balance on the account. The invoice shall include a summary of the costs incurred, payments received, identity of staff involved, and amount of time staff spent on the project.

The Client shall pay the required amount by the due date, which shall be thirty (30) calendar days after the invoice date. If payment has not been received by the due date, then Ecology shall withhold any requested opinions and notify the Client by certified mail that the debt is past due. If payment has not been received within sixty (60) calendar days of the invoice date, then Ecology shall stop all work under the Agreement and may, as appropriate, assign the debt to a collection agency under Chapter 19.16 RCW. The Client agrees to pay the collection agency fee incurred by Ecology in the course of debt collection.

City of Tacoma Public Works Department

John O'Loughlin, P.E. Principal Professional Engineer

SO2-21 75 Environmental Services / Science & Engineering 2201 Portland Avenue, Tacoma, WA 98421-2711 (253) 502-2108 / FAX (253) 502-2107

Email: joloughl@cityoftacoma.org





Jennifer W. Wynkoop Senior Project Scientist

950 Pacific Avenue, Suite 515 Tacoma, WA 98402

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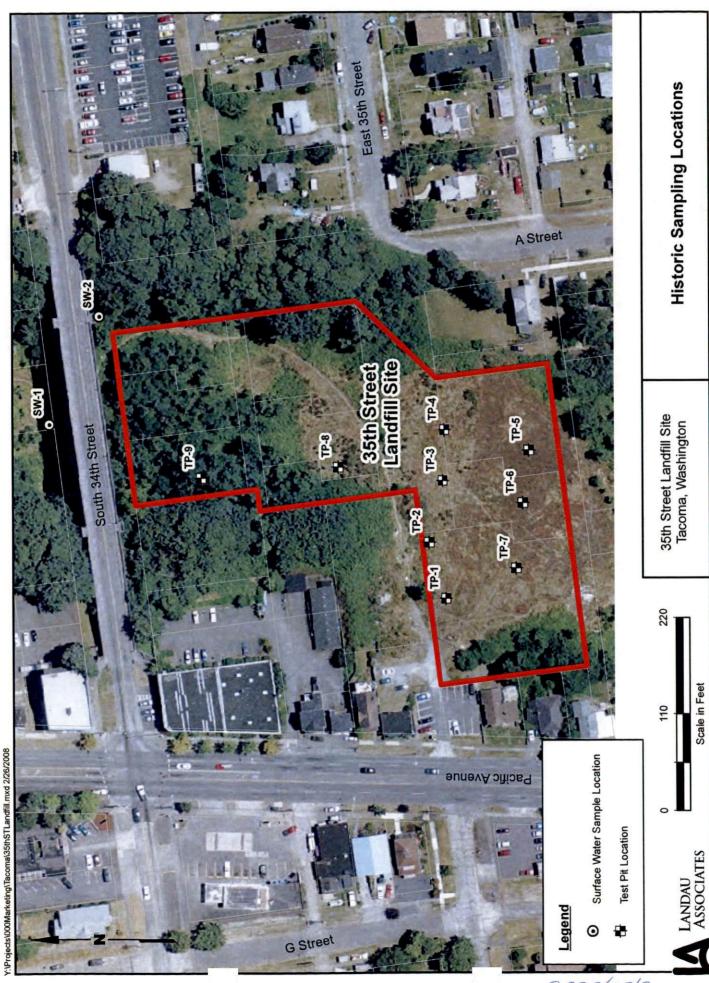
ENVIRONMENTAL | GEOTECHNICAL | NATURAL RESOURCES



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8008/00/0

TABLE 1. Selected Chemical Analysis for Surface Water, Soil and Air Samples.

			ANAL	YSES PERFORM	IED	
Matrix & Lab ID No.	Location A	 <u>TPH</u>	Priority Pollutant <u>Metals</u>	Purgeables	TCLP	Hydrocarbons <u>In Air</u>
Field Blank		X	X	X		
Surface Water 0405910307	SW1	X	X	X		
Surface Water 0405910308	SW2	X	X	X		
Soil 0405910309	TP1	X	X	X		
Soil 0405910310	TP2	X	X	X	X	
Soil 0405910311	TP3	x	x	x	X	
Soil 0405910312	TP4	X	X	X		
Soil 0405910313	ТР4 в	X	X	X		
Soil 0405910314	TP9	X	X	x		
Air 108038	TP2 c	u	, 			X
Air 108039	TP2 D					x
Air 108040	TP3	-				x

A Refer to Figure 2

B 0405910313 was a duplicate sample.

C Short sampling duration.

D Long sampling duration.

TABLE 2. Surface Water Conductivity as Measured by a HACH Model 44600 Conductivity/TSD Meter with a Flow Rate of 25 gpm.

Source	Meter Readings in Millisemens (ms)
Runoff	.057
Runoff	.068
Runoff	.088
Culvert Pipe	.184

(W0090S)

TABLE 3. Analyses for Total Petroleum Hydrocarbons (TPH) in Surface Water and Soil Samples.

Matrix & Lab ID No.	Location	TPH mg/l or mg/kg (1)
Field Blank		3.1
Surface Water 0405910307	SW1	25.6
Surface Water 0405910308	SW2	32.0
Soil 0405910309	TP1	1140
Soil 0405910310	TP2	500
Soil 0405910311	TP3	1330
Soil 0405910312	TP4	780
Soil 0405910313	TP4 (2)	750
Soil 0405910314	TP9	1300

(W0090S)

Mg/kg on a dry weight basis = mg/l = parts per million.
 Duplicate sample.

Analysis for Priority Pollutant Metals on Surface Water and Soil Samples. TABLE 4.

							ANALY	ANALYTE (Parts per Million)	s per Mi	lion)				
Matrix & Lab ID No.	Location	- 8	2 <u>As</u>	Be 3	4 임	~ 기	, ₀	~ 윈	8 Hg	م ن <u>ت</u> ا	Se 10	11 Ag	11	13 Zn
Field Blank	1	< 0.001	< 0.001	0.001	< 0.001	<0.005 0.029	0.029	< 0.005	<0.0002 <0.001		<0.005 0.002	0.002	0.001	0.013
Surface Water 0405910307	SW1	< 0.001	0.013	< 0.001	< 0.001	<0.005 0.017	0.017	<0.005	<0.0002 <0.001	< 0.001	<0.005	0.001	<0.001	0.017
Surface Water 0405910308	SW2	<0.001	< 0.001	< 0.001	<0.001 0.007		0.018	0.039	<0.0002	<0.0002 <0.001	<0.50	<0.001	<0.001	0.042
Soil 0405910309	TPI	8.81	4.76	0.16	0.26	37.01	20.19	37.25	0.034	34.68	<0.50	<0.10	<1.00	118.60
Soil 0405910310	TP2	<1.00	6.25	0.20	0.48	51.56	16.10	108.30	0.184	35.08	<0.50	2.50	<1.00	89.80
Soil 0405910311	TP3	4.00	21.70	0.16	0.30	27.20	30.60	162.70	0.028	25.26	<0.50	<0.10	<1.00	142.90
Soil 0405910312	TP4	<1.00	5.55	0.13	0.07	19.95	2.97	53.20	0.035	19.50	<0.50	<0.10	<1.00	33.65
Soil 0405910313	TP4	<1.00	5.82	0.23	0.13	43.60	8.71	48.00	0.035	34.10	<0.50	<0.10	<1.00	61.79
Soil 0405910314	TP9	<1.00	228.00	0.28	0.34	22.50	12.04	26.50	0.036	31.30	<0.50	1.14	<1.00	56.21

TABLE 5. Toxicity Characteristics Leaching Procedure (TCLP)
Analysis on Soil Samples TP2 and TP3.

Matrix &			ANALYTE (mg/l)	
Lab ID No.	Location	Arsenic	Chromium	Lead
Soil 0405910310	TP2	< 5.0	< 5.0	< 5.0
Soil 0405910311	TP3	< 5.0	< 5.0	< 5.0

(W0090S)

Selected Chemical Analyses for Air Bag and Charcoal Tube Samples. TABLE 6.

	Diesel	Ī	0.00 mg/m3	0.00 mg/m3
	Xylene	< 100 ppm	1	1
ANALYTE	Toluene	< 100 ppm	2.3 mg/m ₃	0.8 mg/m3
	Ethylbenzene	< 100 ppm	Ī	ı
	Benzene	< 100 ppm	1	ī
	Methane	52%	ı	1
	Location	TP2	TP2	TP3
	Matrix & Lab ID No.	Air Bag 108038	Charcoal Tube 108039	Charcoal Tube 108040



35th Street Landfill Tacoma, Washington

Vicinity Map