



TGE RESOURCES, INC.

Environmental, Engineering, Building Sciences, Industrial Hygiene & Remediation Services

March 3, 2020

Ms. Louise Bardy
VCP Unit Manager
Washington State Department of Ecology
Toxics Cleanup Program
Northwest Regional Office
3190 160th Ave SE
Bellevue, WA 98008

RE: Release Notification
29805 Pacific Avenue South
Federal Way, King County, Washington
TGE Project No.: R13411.07

Dear Ms. Bardy,

As per Washington Administrative Code (WAC) Chapter 173-340 Section 300 (Site Discovery and Reporting), the purpose of this letter is to report the discovery of a release of hazardous substances to shallow soil and detection of certain volatile organic compounds (VOCs) in soil vapor and certain RCRA metals, VOCs, organochlorine pesticides and petroleum hydrocarbons in shallow soil at the above-referenced property (the "Property").

The Property is currently being redeveloped as a healthcare facility by MultiCare Health System. The existing improvements at the Property (Former Payless Auto Sales, Repossession and Auto Repair Facility) will be razed. Recent investigations completed at the Property detected concentrations of petroleum hydrocarbons, VOCs, RCRA metals and organochlorine pesticides in excess of Washington State Department of Ecology ("Ecology") screening limits for soil in certain locations at the Property, as set forth within the State of Washington Model Toxics Control Act (MTCA) regulation/statute. No impacts to groundwater have been detected. The assessment of groundwater included completion of a temporary screened borehole to 110 feet below grade (fbg) without encountering groundwater. Soil vapor testing was conducted within the location of the future building footprint and calculated indoor air levels for the anticipated building exceeded applicable MTCA limits for benzene, 1,3-butadiene, and chloroform.

It is anticipated that cleanup/remediation of contamination identified at the Property will be conducted during the redevelopment and addressed through the Voluntary Cleanup Program (VCP) and/or PLIA's PTAP program.

The following table summarizes the reporting information specified in Section 7 of Ecology's Policy 300:

Property Owner	Niklexi, LLC 1627 East Francis Avenue Spokane, WA 99208
Contact name, email and phone number for Property Owner	Curtis Nelson (Managing Member) curt@wirbinc.com (509) 484-0464

DUNS: 929574051
Texas HUB
City of Houston SBE, WBE
SBA Certified WOSB
TX DOT Pre-certified
WBEA/WBENC Certified WBE

TGE Corporate Office
8048 Northcourt Road
Houston, Texas 77040
713-744-5800
Fax: 713-744-5888
www.tgeresources.com

Tenant	MultiCare Health System, a Washington nonprofit corporation 315 Martin Luther King Jr. Way Tacoma, WA 98415-0299
Contact name, email and phone number for Tenant	Andy Rigel (Attorney for Tenant) andy.rigel@hcmp.com (206) 470-7643
Property Address	29805 Pacific Avenue South Federal Way, King County, Washington
King County Parcel Number(s)	042104-9157
Nearest Ecology Regional Office	Northwest Regional Office
Environmental Consultant of Record	TGE Resources, Inc. Attn: Timothy E. Crump, (WA P.G. #3210) 8048 Northcourt Road Houston, Texas 77040

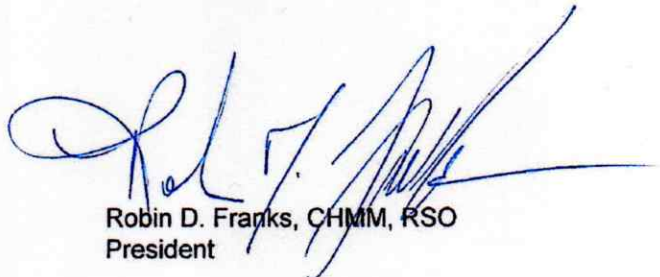
Media impacted and contaminants above MTCA screening levels	Soil Petroleum hydrocarbons (specifically, gasoline-range organics [GRO], diesel-range organics [DRO] and residual-range organics [RRO], RCRA metals cadmium, lead, arsenic and total chromium, VOC analyte 1,1,2,2-tetrachloroethane and the organochlorine pesticide dieldrin were identified in excess of the Simplified Terrestrial Eco Evaluation Unrestricted Screening Levels, Soil Protective of Groundwater Vadose at 13 Degrees and/or Method A Direct Contact Screening Levels.
	Soil Vapor The VOC analytes 1,3-butadiene, benzene, and chloroform were detected within certain soil vapor sampling locations and calculated indoor air for the anticipated building to be constructed during the redevelopment were in excess of Ecology May 2019 Subslab Soil Gas Screening Levels (Method B Cancer) Concentrations.

Should you have any questions or comments regarding this report or any related matter, please call us at (713) 744-5800.

Sincerely,
TGE Resources, Inc.



Timothy E. Crump, P.G., CPG
Sr. Project Manager
WA P.G. #3210



Robin D. Franks, CHMM, RSO
President

Attachments:

- Cumulative Soil Data Summary Table
- Boring Location Map

ATTACHMENT 1

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB1	SB2	SB3	SB4	SB5
Laboratory Identification							L931900-01	L931900-02	L931900-03	L931900-04	L931900-07
Sample Date							8/24/2017	8/24/2017	8/24/2017	8/24/2017	8/24/2017
Depth Range							5 - 6 ft	2 - 3 ft	3 - 4 ft	2 - 3 ft	11 - 12 ft
Hydrocarbon											
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	0.0422 J	0.0439 J	<0.0429	<0.0355	<0.0463
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	0.0422 J	0.0439 J	<0.0429	<0.0355	<0.0463
Diesel range organics	2000	NL	NL	460	NL	mg/kg	16.9	6.37	11.3	<1.39	23.1 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	170	45.1	51.1	6.49 J	201
Metals											
Arsenic	20	24	0.67	20	2.9	mg/kg	1.44 J	14	4.4	2.68	1.74 J
Barium	NL	16000	NL	1250	1600	mg/kg	47.5	119	126	50.2	39.1
Cadmium	2	8	NL	25	0.69	mg/kg	<0.0733	0.317 J	0.132 J	<0.0732	<0.0777
Lead	250	NL	NL	220	3000	mg/kg	2.45	34.2	13.2	2.9	2.24
Mercury	2	NL	NL	9	2.1	mg/kg	0.00842 J	0.0802	0.0285	0.00903 J	0.00577 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.775	<0.859	<0.836	<0.774	<0.821
Silver	NL	400	NL	NL	14	mg/kg	<0.293	<0.325	<0.316	<0.293	<0.311
Total Chromium	NL	NL	NL	42	NL	mg/kg	20.7	21.3	27.5	22	22.6
Other											
% Moisture	NL	NL	NL	NL	NL	%	95.5	86.1	88.5	95.6	90.1
pH	NL	NL	NL	NL	NL	s.u.	3.87 T8	NT	NT	NT	NT
Herbicides (Method 8151)											
4-(chloro-2-methylphenoxy) acetic acid	NL	1600	NL	NL	NL	mg/kg	NT	NT	<1.5	NT	NT
Dalapon, sodium salt	NL	2400	NL	NL	NL	mg/kg	NT	NT	<0.0383	NT	NT
Dicamba	NL	2400	NL	NL	NL	mg/kg	NT	NT	<0.0532	NT	NT
Dichlorophenoxy, 2,4- butyric acid, 4-	NL	800	NL	NL	NL	mg/kg	NT	NT	<0.101	NT	NT
Dichlorophenoxyacetic acid, 2,4-	NL	800	NL	NL	NL	mg/kg	NT	NT	<0.0238	NT	NT
Dichloroprop	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.083	NT	NT
Dinoseb	NL	80	NL	NL	NL	mg/kg	NT	NT	<0.0236	NT	NT
TP Silvex, 2,4,5-	NL	640	NL	NL	NL	mg/kg	NT	NT	<0.0363	NT	NT
Trichlorophenoxyacetic acid, 2,4,5-	NL	800	NL	NL	NL	mg/kg	NT	NT	<0.0289	NT	NT
Organophosphate Pesticides (Method 8141)											
Azinphos-methyl	NL	240	NL	NL	NL	mg/kg	NT	NT	<0.00427	NT	NT
Chlorpyrifos	NL	80	NL	NL	NL	mg/kg	NT	NT	<0.0104	NT	NT
Coumaphos	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00768	NT	NT
Demeton	NL	3.2	NL	NL	NL	mg/kg	NT	NT	<0.00383	NT	NT
Diazinon	NL	56	NL	NL	NL	mg/kg	NT	NT	<0.00505	NT	NT
Dichlorvos	NL	40.00	3.40	NL	NL	mg/kg	NT	NT	<0.0109	NT	NT
Dimethoate	NL	16	NL	NL	NL	mg/kg	NT	NT	<0.0224	NT	NT
Disulfoton	NL	3.2	NL	NL	NL	mg/kg	NT	NT	<0.00563	NT	NT
EPN	NL	0.8	NL	NL	NL	mg/kg	NT	NT	<0.00579	NT	NT
Ethoprop	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00525	NT	NT
Fensulfothion	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0191	NT	NT
Fenthion	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00687	NT	NT
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	NT	NT	<0.00164	NT	NT
Malathion	NL	1600	NL	NL	NL	mg/kg	NT	NT	<0.00791	NT	NT
MCPP	NL	80	NL	NL	NL	mg/kg	NT	NT	<1.24	NT	NT
Merphos	NL	2.4	NL	NL	NL	mg/kg	NT	NT	<0.00609	NT	NT
Methyl parathion	NL	20	NL	NL	NL	mg/kg	NT	NT	<0.00756	NT	NT
Naled	NL	160	NL	NL	NL	mg/kg	NT	NT	<0.00472	NT	NT
Parathion	NL	480	NL	NL	NL	mg/kg	NT	NT	<0.00645	NT	NT
Phorate	NL	16	NL	NL	NL	mg/kg	NT	NT	<0.00532	NT	NT
Phosdrin (mevinphos)	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0115	NT	NT
Prothiofos	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00682	NT	NT
Ronnel	NL	4000	NL	NL	NL	mg/kg	NT	NT	<0.00494	NT	NT
Sulprofos	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00626	NT	NT
TEPP	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.177	NT	NT
Tetrachlorvinphos	NL	2400	42.00	NL	NL	mg/kg	NT	NT	<0.00607	NT	NT
Trichloronate	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0075	NT	NT
OrganoChlorine Pesticides (Method 8081)											
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	NT	NT	<0.00153	NT	NT
Chlordane	NL	40	2.90	1	2.10	mg/kg	NT	NT	<0.0441	NT	NT
DDD	NL	2.4	4.20	NL	0.34	mg/kg	NT	NT	<0.00176	NT	NT
DDE	NL	24	2.90	NL	0.45	mg/kg	NT	NT	<0.00174	NT	NT
DDT	3	40.00	2.90	NL	3.5	mg/kg	NT	NT	<0.00226	NT	NT
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	NT	NT	<0.00172	NT	NT
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00168	NT	NT
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00181	NT	NT
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	NT	NT	<0.00171	NT	NT
Endrin	NL	24	NL	0.4	0.44	mg/kg	NT	NT	<0.00177	NT	NT
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00146	NT	NT
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00186	NT	NT
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	NT	NT	<0.00174	NT	NT
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	NT	NT	<0.00182	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	<0.0014	NT	NT
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	NT	NT	<0.00154	NT	NT
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	NT	NT	<0.00181	NT	NT
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00162	NT	NT
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	NT	NT	<0.00201	NT	NT
Tetraethyl dithiopyrophosphate	NL	40	NL	NL	NL	mg/kg	NT	NT	<0.00436	NT	NT
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	NT	NT	<0.0407	NT	NT
VOAs											
Acetone	NL	72000	NL	NL	29	mg/kg	0.0359 J	0.326	0.121	0.0162 J	0.0143 J
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00187	<0.00218	<0.0021	<0.00187	<0.00199
Benzene	0.03	320	18	NL	0.027	mg/kg	<0.000283	<0.000329	0.000351 J	<0.000282	<0.0003
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.000297	<0.000346	<0.000334	<0.000297	<0.000315
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000266	<0.00031	<0.000298	<0.000266	<0.000282
Bromoform	NL	1600									

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Sample Date							8/24/2017	8/24/2017	8/24/2017	8/24/2017	8/24/2017
Depth Range							5 - 6 ft	2 - 3 ft	3 - 4 ft	2 - 3 ft	11 - 12 ft
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000246	<0.000286	<0.000276	<0.000246	<0.000261
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.000277	<0.000322	<0.00031	<0.000276	<0.000293
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.000375	<0.000436	<0.000421	<0.000374	<0.000397
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000217	<0.000252	<0.000243	<0.000217	<0.00023
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000292	<0.00034	<0.000328	<0.000292	<0.00031
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000332	<0.000386	<0.000373	<0.000332	<0.000352
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000274	<0.000319	<0.000308	<0.000274	<0.000291
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00028	<0.000325	<0.000314	<0.000279	<0.000296
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.00026	<0.000302	<0.000291	<0.000259	<0.000275
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000311	<0.000362	<0.000349	<0.000311	<0.00033
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000359	<0.000418	<0.000403	<0.000359	<0.000381
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.000358	<0.000417	<0.000402	<0.000358	<0.00038
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0064 J	0.0129	0.0162	<0.0049	<0.00519
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.00197	<0.00229	<0.00221	<0.00197	<0.00209
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.0004	<0.000466	<0.000449	<0.0004	<0.000424
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00105	<0.00122	<0.00118	<0.00105	<0.00111
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000222	<0.000258	<0.000249	<0.000222	<0.000235
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00105	<0.00122	<0.00118	<0.00105	<0.00111
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.000216	<0.000251	<0.000242	<0.000215	<0.000229
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.000245	<0.000285	<0.000275	<0.000245	<0.00026
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000277	<0.000322	<0.00031	<0.000276	<0.000293
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000382	<0.000445	<0.000429	<0.000382	<0.000405
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000289	<0.000336	<0.000324	<0.000289	<0.000306
Toluene	7	6400	NL	NL	4.5	mg/kg	<0.000455	<0.000529	<0.00051	<0.000454	<0.000482
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000382	<0.000445	<0.000429	<0.000382	<0.000405
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.00032	<0.000373	<0.00036	<0.00032	<0.00034
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.000406	<0.000473	<0.000456	<0.000406	<0.000431
Trichloroethane, 1,1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.0003	<0.000349	<0.000336	<0.000299	<0.000317
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.00029	<0.000338	<0.000326	<0.00029	<0.000307
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000292	<0.00034	<0.000328	<0.000292	<0.00031
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.0004	<0.000466	<0.000449	<0.0004	<0.000424
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.000776	<0.000903	<0.000871	<0.000775	<0.000822
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.000301	<0.00035	<0.000337	<0.0003	<0.000319
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	<0.000221	<0.000257	<0.000248	<0.000221	<0.000234
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.000279	<0.000324	<0.000313	<0.000278	<0.000295
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000305	<0.000355	<0.000342	<0.000304	<0.000323
Xylenes	9	16000	NL	NL	14	mg/kg	<0.000731	<0.000851	<0.00082	<0.00073	<0.000775

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Laboratory Identification							L946745-01	L947070-01	L948202-01	L947070-02	L947070-03	L946745-02
Sample Date							10/26/2017	10/27/2017	10/27/2017	10/27/2017	10/27/2017	10/26/2017
Depth Range							1 - 2 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline Range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	0.0415 J	0.0569 J	NT	0.0486 J	0.0385 J	0.057 J
Gasoline Range Organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	0.0415 J	0.0569 J	NT	0.0486 J	0.0385 J	0.057 J
Diesel Range Organics	2000	NL	NL	460	NL	mg/kg	<1.44	3.11 J	NT	109	3.09 J	264
Residual Range Organics	2000	NL	NL	NL	NL	mg/kg	14.3	7.84 J	NT	1430	10.2 J	1710
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	2.07 J	2.91	NT	10.1	3.93	2.2
Barium	NL	16000	NL	1250	1600	mg/kg	59.4	138	NT	61	68.8	48.3
Cadmium	2	8	NL	25	0.69	mg/kg	0.0759 J	<0.0838	NT	0.129 J	0.115 J	0.101 J
Lead	250	NL	NL	220	3000	mg/kg	6.49	4.03	NT	26.6	10.5	7.75
Mercury	2	NL	NL	9	2.1	mg/kg	0.0244	0.0602	NT	0.0149 J	0.0295	0.0171 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.798	<0.886	0.416 J	<0.771	<0.80	<0.781
Silver	NL	400	NL	NL	14	mg/kg	<0.302	<0.335	NT	<0.292	<0.305	<0.296
Total Chromium	NL	NL	NL	42	NL	mg/kg	17.3	27.3	NT	21.5	21.2	15.8
Other												
% Moisture	NL	NL	NL	NL	NL	%	92.7	83.5	83.5	96	91.7	94.7
pH	NL		NL	NL	NL	s.u.	NT	6.68 T8	NT	NT	NT	NT
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0108	<0.012	NT	<0.0104	0.0175 J	0.0139 J
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00193	<0.00214	NT	<0.00186	<0.00195	<0.00189
Benzene	0.03	320	18	NL	0.027	mg/kg	<0.000291	0.00034 J	NT	0.000376 J	<0.000295	<0.000285
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.000306	<0.00034	NT	<0.000296	<0.00031	<0.0003
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000274	<0.000304	NT	<0.000265	<0.000277	<0.000268
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.000457	<0.000508	NT	<0.000442	<0.000463	<0.000448
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00145	<0.0016	NT	<0.0014	<0.00146	<0.00141
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.000278	<0.000309	NT	<0.000269	<0.000281	<0.000272
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.000217	<0.000241	NT	<0.000209	<0.000219	<0.000212
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.000222	<0.000247	NT	<0.000215	<0.000225	<0.000218
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.000354	<0.000393	NT	<0.000342	<0.000358	<0.000346
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000229	<0.000254	NT	<0.000221	<0.000231	<0.000224
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00102	<0.00113	NT	<0.000985	<0.00103	<0.000999
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000247	<0.000274	NT	<0.000239	<0.00025	<0.000242
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.000405	<0.000449	NT	<0.000391	<0.000409	<0.000396
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000325	<0.00036	NT	<0.000313	<0.000328	<0.000318
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.000259	<0.000287	NT	<0.00025	<0.000262	<0.000253
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000262	<0.000291	NT	<0.000253	<0.000265	<0.000257
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00022	<0.000244	NT	<0.000212	<0.000223	<0.000215
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00113	<0.00126	NT	<0.00109	<0.00115	<0.00111
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000402	<0.000446	NT	<0.000388	<0.000407	<0.000394
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.000329	<0.000365	NT	<0.000318	<0.000333	<0.000322
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000258	<0.000286	NT	<0.000249	<0.000261	<0.000252
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.000244	<0.000271	NT	<0.000235	<0.000247	<0.000239
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000769	<0.000853	NT	<0.000743	<0.000778	<0.000753
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000215	<0.000238	NT	<0.000207	<0.000217	<0.00021
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000286	<0.000317	NT	<0.000276	<0.000289	<0.00028
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000327	<0.000363	NT	<0.000316	<0.000331	<0.00032
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000254	<0.000281	NT	<0.000245	<0.000256	<0.000248
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.000285	<0.000316	NT	<0.000275	<0.000288	<0.000279
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.000386	<0.000429	NT	<0.000373	<0.000391	<0.000378
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000223	<0.000248	NT	<0.000216	<0.000226	<0.000219
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000301	<0.000334	NT	<0.000291	<0.000304	<0.000295
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000342	<0.000379	NT	<0.00033	<0.000346	<0.000335
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000283	<0.000314	NT	<0.000273	<0.000286	<0.000277
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000288	<0.00032	NT	<0.000278	<0.000291	<0.000282
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000268	<0.000297	NT	<0.000258	<0.000271	<0.000262
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.00032	<0.000355	NT	<0.000309	<0.000324	<0.000314
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.00037	<0.000411	NT	<0.000357	<0.000374	<0.000362
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.000369	<0.000409	NT	<0.000356	<0.000373	<0.000361
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	<0.00505	<0.0056	NT	<0.00487	<0.00511	<0.00494
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.00203	<0.00225	NT	<0.00196	<0.00205	<0.00199
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.000412	<0.000457	NT	<0.000398	<0.000417	<0.000403
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00108	<0.0012	NT	<0.00104	<0.00109	<0.00106
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000229	<0.000254	NT	<0.000221	<0.000231	<0.000224
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00108	<0.0012	NT	<0.00104	<0.00109	<0.00106
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.000222	<0.000247	NT	<0.000215	<0.000225	<0.000218
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.000252	<0.00028	NT	<0.000244	<0.000255	<0.000247
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000285	<0.000316	NT	<0.000275	<0.000288	<0.000279
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000394	<0.000437	NT	<0.00038	<0.000398	<0.000385
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000298	<0.00033	NT	<0.000287	<0.000301	<0.000291
Toluene	7	6400	NL	NL	4.5	mg/kg	<0.000468	<0.000519	NT	<0.000452	<0.000473	0.000496 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000394	<0.000437	NT	<0.00038	<0.000398	<0.000385
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg						

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB11		SB11		SB12	TSB1	
Laboratory Identification							L946745-03	L947689-01	L946745-04	L948202-02	L947070-04	L946526-01	L949489
Sample Date							10/26/2017		10/26/2017		10/27/2017	10/25/2017	10/25/2017
Depth Range							3 - 4 ft		5 - 6 ft		1 - 2 ft	4.5 - 5.5 ft	52-53 ft
Hydrocarbon (NWTPHGx and NWTPHDx)													
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	1.48	NT	0.322	NT	1.56 J	0.0423 J	0.0518
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	1.48	NT	0.322	NT	1.56 J	0.0423 J	0.0518
Diesel range organics	2000	NL	NL	460	NL	mg/kg	559	NT	171	NT	42.9 J	<1.42	<1.52
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	136	NT	938	NT	630	<3.54	<3.79
Metals (EPA Method 6010/7471)													
Arsenic	20	24	0.67	20	2.9	mg/kg	2.16 J	NT	6.46	NT	9.16	1.83 J	2.56
Barium	NL	16000	NL	1250	1600	mg/kg	69.9	NT	111	NT	59.1	44.7	40.4
Cadmium	2	8	NL	25	0.69	mg/kg	0.0853 J	NT	0.282 J	NT	0.15 J	<0.0744	<0.0796
Lead	250	NL	NL	220	3000	mg/kg	6.17	NT	117	NT	64.6	1.19	0.725
Mercury	2	NL	NL	9	2.1	mg/kg	0.027	NT	0.0528	NT	0.0277	0.0193 J	0.0167
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.81	0.244 J	<0.993	0.529 J	<0.795	<0.786	<0.842
Silver	NL	400	NL	NL	14	mg/kg	<0.306	NT	<0.376	NT	<0.301	<0.297	<0.319
Total Chromium	NL	NL	NL	42	NL	mg/kg	28.2	NT	29.2	NT	26	15.9	18.7
Other													
% Moisture	NL	NL	NL	NL	NL	%	91.4	91.4	74.6	74.6	93.1	94.1	87.9
pH	NL	NL	NL	NL	NL	s.u.	NT	NT	NT	NT	NT	NT	NT
VOAs (EPA Method 8260)													
Acetone	NL	72000	NL	NL	29	mg/kg	0.051 J	NT	0.0698	NT	<0.373	0.0183 J	<0.0114
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00196	NT	<0.0024	NT	<0.0668	<0.0019	<0.00204
Benzene	0.03	320	18	NL	0.027	mg/kg	<0.000296	NT	<0.000362	NT	<0.0101	<0.000287	<0.000307
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.000311	NT	<0.000381	NT	<0.0106	<0.000302	<0.000323
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000278	NT	<0.000341	NT	<0.00948	<0.00027	<0.000289
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.000464	NT	<0.000569	NT	<0.0158	<0.00045	<0.000482
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00147	NT	<0.0018	NT	<0.05	<0.00142	<0.00152
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	0.00171	NT	<0.000346	NT	<0.00963	<0.000274	<0.000294
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	0.000801 J	NT	<0.00027	NT	<0.00751	<0.000214	<0.000229
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.000225	NT	<0.000276	NT	<0.00769	<0.000219	<0.000234
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.000359	NT	<0.00044	NT	<0.0122	<0.000348	<0.000373
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000232	NT	<0.000284	NT	<0.00792	<0.000225	<0.000241
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00104	NT	<0.00127	NT	<0.0353	<0.00101	<0.00108
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000251	NT	<0.000307	NT	<0.00855	<0.000243	<0.000261
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00041	NT	<0.000503	NT	<0.014	<0.000398	<0.000427
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000329	NT	<0.000404	NT	<0.0112	<0.00032	<0.000342
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.000263	NT	<0.000322	NT	<0.00896	<0.000255	<0.000273
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000266	NT	<0.000326	NT	<0.00907	<0.000258	<0.000276
Cymene	NL	NL	NL	NL	NL	mg/kg	0.000885 J	NT	<0.000274	NT	<0.00762	<0.000217	<0.000217
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00115	NT	<0.00141	NT	<0.0392	<0.00112	<0.00119
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000408	NT	<0.0005	NT	<0.0139	<0.000396	<0.000424
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.000334	NT	<0.000409	NT	<0.0114	<0.000324	<0.000347
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000262	NT	<0.000321	NT	<0.00892	<0.000254	<0.000272
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.000247	NT	<0.000303	NT	<0.00844	<0.00024	<0.000257
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.00078	NT	<0.000956	NT	<0.0266	<0.000758	<0.000811
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000218	NT	<0.000267	NT	<0.00743	<0.000211	<0.000226
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.00029	NT	<0.000355	NT	<0.0099	<0.000282	<0.000301
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000332	NT	<0.000406	NT	<0.0113	<0.000322	<0.000345
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000257	NT	<0.000315	NT	<0.00878	<0.00025	<0.000267
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.000289	NT	<0.000354	NT	<0.00986	<0.00028	<0.0003
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.000392	NT	<0.00048	NT	<0.0134	<0.00038	<0.000407
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000227	NT	<0.000278	NT	<0.00773	<0.00022	<0.000236
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000305	NT	<0.000374	NT	<0.0104	<0.000296	<0.000317
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000347	NT	<0.000425	NT	<0.0118	<0.000337	<0.000361
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000287	NT	<0.000351	NT	<0.00978	<0.000278	<0.000298
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000292	NT	<0.000358	NT	<0.00997	<0.000284	<0.000304
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000271	NT	<0.000333	NT	<0.00926	<0.000263	0.000282
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000325	NT	0.000551 J	NT	<0.0111	<0.000316	<0.000338
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000375	NT	<0.00046	NT	<0.0128	<0.000364	<0.000435
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.000374	NT	<0.000459	NT	<0.0128	<0.000363	<0.000389
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.00885 J	NT	0.0177	NT	<0.175	0.00526 J	<0.00532
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.00206	NT	<0.00252	NT	<0.0702	<0.002	<0.00214
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.000418	NT	<0.000512	NT	<0.0143	<0.000406	<0.000390
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00109	NT	<0.00134	NT	<0.0373	<0.00106	<0.00114
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000232	NT	<0.000284	NT	<0.00792	<0.000225	<0.000241
Naphthalene	5	1600	NL	NL	4.5	mg/kg	0.00779	NT	<0.00134	NT	<0.0373	<0.00106	<0.00114
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	0.0011	NT	0.000356 J	NT	<0.00769	<0.000219	<0.000234
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.000256	NT	<0.000314	NT	<0.00874	<0.000249	<0.000266
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000289	NT	<0.000354	NT	<0.00986	<0.00028	<0.0003
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000399	NT	<0.00049	NT	<0.0136	<0.000388	<0.000415
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000302	NT	<0.00037	NT	<0.0103	<0.000293	<0.000314
Toluene	7	6400	NL	NL	4.5	mg/kg	<0.000475	NT	<0.000582	NT	<0.0162	<0.000461	0.000567
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000399	NT	<0.00049	NT	<0.0136	<0.	

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB13	SB13	SB13	SB13
Laboratory Identification							L1161400-01	L1161400-02	L1161400-03	L1161400-04
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	2 - 3 ft	4 - 6 ft	8 - 9 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.906	1.090 B J	-	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	-	-	<0.939	0.962 B J
Diesel range organics	2000	NL	NL	460	NL	mg/kg	126	43.1 J	<14.7	18.1 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	743	271	95.0 J	142
Metals (EPA Method 6010/7471)										
Arsenic	20	24	0.67	20	2.9	mg/kg	1.570 J	1.530 J	1.970 J	1.500 J
Barium	NL	16000	NL	1250	1600	mg/kg	56	53.1	50	48
Cadmium	2	8	NL	25	0.69	mg/kg	0.2540 J	0.2690 J	0.1560 J	0.2000 J
Lead	250	NL	NL	220	3000	mg/kg	7.17	8.18	8.14	6.24
Mercury	2	NL	NL	9	2.1	mg/kg	0.01800 J	0.01590 J	0.0174 J	0.01710 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.663	<0.692	<0.687	<0.666
Silver	NL	400	NL	NL	14	mg/kg	0.289 B J	0.245 B J	0.299 B J	0.313 B J
Total Chromium	NL	NL	NL	42	NL	mg/kg	28.1	26.8	24.1	28.7
Other										
% Moisture	NL	NL	NL	NL	NL	%	93.5	89.7	90.3	93
VOAs (EPA Method 8260)										
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0146	<0.0153	<0.0152	<0.0147
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00203	<0.00212	<0.0021	<0.00204
Benzene	0.03	320	18	NL	0.027	mg/kg	0.000742 J	0.000617 J	<0.000443	<0.00043
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00112	<0.00117	<0.00116	<0.00113
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000842	<0.000879	<0.000873	<0.000847
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00639	<0.00667	<0.00662	<0.00643
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00396	<0.00413	<0.0041	<0.00398
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00411	<0.00428	<0.00425	<0.00413
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.0027	<0.00282	<0.0028	<0.00272
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00166	<0.00173	<0.00172	<0.00167
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00115	<0.0012	<0.0012	<0.00116
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000613	<0.000639	<0.000635	<0.000616
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00115	<0.0012	<0.0012	<0.00116
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000444	<0.000463	<0.00046	<0.000446
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00149	<0.00155	<0.00154	<0.00149
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000984	<0.00103	<0.00102	<0.000989
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00121	<0.00126	<0.00125	<0.00121
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000923	<0.000963	<0.000956	<0.000928
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00249	<0.0026	<0.00258	<0.0025
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00545	<0.00569	<0.00565	<0.00548
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000481	<0.000502	<0.000498	<0.000484
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00155	<0.00162	<0.00161	<0.00156
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00182	<0.0019	<0.00188	<0.00183
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00211	<0.0022	<0.00218	<0.00212
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000874	<0.000912	<0.000906	<0.000879
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000615	<0.000641	<0.000637	<0.000618
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000508	<0.00053	<0.000526	<0.000511
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000535	<0.000558	<0.000554	<0.000537
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000738	<0.00077	<0.000764	<0.000742
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00153	<0.0016	<0.00158	<0.00154
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00136	<0.00142	<0.00141	<0.00137
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00187	<0.00195	<0.00194	<0.00188
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000848	<0.000885	<0.000878	<0.000852
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000748	<0.000781	<0.000775	<0.000752
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000725	<0.000756	<0.000751	<0.000729
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00164	<0.00171	<0.00169	<0.00164
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000374	<0.00039	<0.000388	<0.000376
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000567	<0.000591	<0.000587	<0.00057
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000561	<0.000586	<0.000581	<0.000564
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0136	<0.0142	<0.0141	<0.0137
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	<0.0134	<0.0139	<0.0138	<0.0134
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0107	<0.0112	<0.0111	<0.0107
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00107	<0.00112	<0.00111	<0.00107
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.0071	<0.00741	<0.00735	<0.00714
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000315	<0.000329	<0.000327	<0.000317
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00334	<0.00348	<0.00346	<0.00335
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00126	<0.00132	<0.00131	<0.00127
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00292	<0.00305	<0.00302	<0.00293
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000535	<0.000558	<0.000554	<0.000537
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000417	<0.000435	<0.000432	<0.000419
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000748	<0.000781	<0.000775	<0.000752
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00547	0.00360 J	0.00306 J	0.00161 J
Trichloro-1,2,2-trifluoroethane, 1,1	NL	2400000	NL	NL	NL	mg/kg	<0.000722	<0.000753	<0.000748	<0.000725
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000668	<0.000697	<0.000692	<0.000672
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00515	<0.00538	<0.00534	<0.00518
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000294	<0.000307	<0.000305	<0.000296
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.000944	<0.000985	<0.000978	<0.000949
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000428	<0.000446	<0.000443	<0.00043
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000535	<0.000558	<0.000554	<0.000537
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00545	<0.00569	<0.00565	<0.00548
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00123	<0.00128	<0.00127	<0.00124
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	0.00188 J	0.00151 J	<0.00128	<0.00125
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00115	<0.0012	<0.0012	<0.00116
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.00073	<0.000762	<0.000756	<0.000734
Xylenes	9	16000	NL	NL	14	mg/kg	0.00531 J	<0.00533	<0.00529	<0.00514

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB14			
Laboratory Identification							L1161400-05 11/13/2019	L1168403-02 11/13/2019	L1161400-06 11/13/2019	L1161400-07 11/13/2019
Sample Date										
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	10 - 12 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.907	NT	-	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	-	NT	<0.915	<0.915
Diesel range organics	2000	NL	NL	460	NL	mg/kg	118	27.5 J T8	57.3 J	<1.44
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	860	163 T8	524	5.8 J
Metals (EPA Method 6010/7471)										
Arsenic	20	24	0.67	20	2.9	mg/kg	3.67	NT	0.713 J	1.370 J
Barium	NL	16000	NL	1250	1600	mg/kg	75.7	NT	41.4	47.9
Cadmium	2	8	NL	25	0.69	mg/kg	0.2350 J	NT	0.1190 J	0.1170 J
Lead	250	NL	NL	220	3000	mg/kg	23.9	NT	2.03	1.34
Mercury	2	NL	NL	9	2.1	mg/kg	0.023 J	NT	0.01670 J	0.02300 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.663	NT	<0.67	<0.67
Silver	NL	400	NL	NL	14	mg/kg	0.273 B J	NT	0.20 B J	0.28 B J
Total Chromium	NL	NL	NL	42	NL	mg/kg	26	NT	21.1	27.1
Other										
% Moisture	NL	NL	NL	NL	NL	%	93.5 94.9	88.2	92.6	92.6
VOAs (EPA Method 8260)										
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0147	NT	<0.0148	<0.0148
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00203	NT	<0.00205	<0.00205
Benzene	0.03	320	18	NL	0.027	mg/kg	0.000508 J	NT	<0.000432	<0.000432
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00112	NT	<0.00113	<0.00113
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000843	NT	<0.000851	<0.000851
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.0064	NT	<0.00646	<0.00646
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00396	NT	<0.004	<0.004
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00411	NT	0.00498 J	<0.00415
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00271	NT	<0.00273	<0.00273
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00166	NT	<0.00167	<0.00167
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00116	NT	<0.00117	<0.00117
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000613	NT	<0.000619	<0.000619
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00116	NT	<0.00117	<0.00117
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000444	NT	0.000765 J	<0.000448
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00149	NT	<0.0015	<0.0015
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000984	NT	<0.000994	<0.000994
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00121	NT	<0.00122	<0.00122
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000923	NT	<0.000932	<0.000932
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00249	NT	<0.00252	<0.00252
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00546	NT	<0.00551	<0.00551
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000482	NT	<0.000486	<0.000486
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00155	NT	<0.00157	<0.00157
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00182	NT	<0.00184	<0.00184
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00211	NT	<0.00213	<0.00213
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000875	NT	<0.000883	<0.000884
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000615	NT	<0.000621	<0.000621
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000508	NT	<0.000513	<0.000513
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000535	NT	<0.00054	<0.00054
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000738	NT	<0.000745	<0.000745
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00153	NT	<0.00154	<0.00154
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00136	NT	<0.00137	<0.00137
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00187	NT	<0.00189	<0.00189
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000849	NT	<0.000856	<0.000857
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000749	NT	<0.000756	<0.000756
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000725	NT	<0.000732	<0.000732
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00164	NT	<0.00165	<0.00165
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000375	NT	<0.000378	<0.000378
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000567	NT	0.002200 J	<0.000573
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000562	NT	<0.000567	<0.000567
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0136	NT	<0.0137	<0.0137
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	<0.0134	NT	<0.0135	<0.0135
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0107	NT	<0.0108	<0.0108
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00107	NT	<0.00108	<0.00108
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.0071	NT	<0.00717	<0.00717
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000316	NT	<0.000319	<0.000319
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00334	NT	0.0327	0.01330 J
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00126	NT	0.00431 J	<0.00127
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00292	NT	<0.00295	<0.00295
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000535	NT	<0.00054	<0.00054
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000417	NT	<0.000421	<0.000421
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000749	NT	<0.000756	<0.000756
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00492 J	NT	0.00150 J	0.00421 J
Trichloro-1,2,2-trifluoroethane, 1,1	NL	2400000	NL	NL	NL	mg/kg	<0.000722	NT	<0.000729	<0.000729
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000669	NT	<0.000675	<0.000675
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00516	NT	<0.00521	<0.00521
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000294	NT	<0.000297	<0.000297
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.000945	NT	<0.000954	<0.000954
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000428	NT	<0.000432	<0.000432
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000535	NT	<0.00054	<0.00054
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00546	NT	<0.00551	<0.00551
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00123	NT	0.0105	<0.00124
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	<0.00124	NT	0.0243	0.00377 B J
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00116	NT	0.00787	<0.00117
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000731	NT	<0.000738	<0.000738
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00511	NT	0.00593 J	<0.00516

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB14A		SB14B	
Laboratory Identification							L1168403-03	L1168403-04	L1168403-05	L1168403-06
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	482 T8	12.40 T8	547 T8	111 J T8
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1330 T8	55.40 T8	2300 T8	597 T8
Other										
% Moisture	NL	NL	NL	NL	NL	%	92.2	86.9	93.2	86.3

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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB14C		SB14D	
Laboratory Identification							L1168403-07	L1168403-08	L1168403-09	L1168403-10
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	228 T8	49.4 T8	122 T8	46 T8
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1110 T8	241 T8	638 T8	244 T8
Other										
% Moisture	NL	NL	NL	NL	NL	%	92.6	89.4	92.1	88.4

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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB15				
Laboratory Identification							L1161924-01 L1165576-01	L1161924-02	L1169568-01	L1169568-02	L1161924-03 L1165576-03
							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
							Depth Range	0 - 1 ft	1 - 2 ft	3 - 4 ft	6 - 8 ft
Hydrocarbon (NWTPHGx and NWTPHDx)											
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.893	<0.954	NT	NT	<0.895
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	<0.954	NT	NT	<0.895
Diesel range organics	2000	NL	NL	460	NL	mg/kg	971	10.1	NT	NT	2.8 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	2300	70.7	NT	NT	23.1
Metals (EPA Method 6010/7471)											
Arsenic	20	24	0.67	20	2.9	mg/kg	43.1	3.26	3.52	5.18	1.990 J
Barium	NL	16000	NL	1250	1600	mg/kg	36.6	67.2	NT	NT	57.5
Cadmium	2	8	NL	25	0.69	mg/kg	0.4300 J	0.2170 J	NT	NT	0.1860 J
Lead	250	NL	NL	220	3000	mg/kg	107	14.6	NT	NT	2.32
Mercury	2	NL	NL	9	2.1	mg/kg	0.03650 B	0.03160 B J	NT	NT	0.03750 B
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.653	<0.698	NT	NT	<0.655
Silver	NL	400	NL	NL	14	mg/kg	0.300 B J	0.226 B J	NT	NT	0.260 B J
Total Chromium	NL	NL	NL	42	NL	mg/kg	22.6	33.3	NT	NT	31.4
Other											
% Moisture	NL	NL	NL	NL	NL	%	94.9	88.9	90.1	89.1	94.7
SVOCs (Method 8270)											
Acenaphthene	NL	4800	NL	NL	98	mg/kg	<0.0676	NT	NT	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	<0.0707	NT	NT	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	<0.0666	NT	NT	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.0451	NT	NT	NT	NT
Benzdine	NL	240	0.0043	NL	NL	mg/kg	<0.671	NT	NT	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	<0.0577	NT	NT	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0732	NT	NT	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	<0.0759	NT	NT	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0613	NT	NT	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	<0.0811	NT	NT	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	<0.0944	NT	NT	NT	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	<0.08	NT	NT	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	<0.126	NT	NT	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.12	NT	NT	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	<0.108	NT	NT	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	<0.0502	NT	NT	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	<0.0673	NT	NT	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	<0.0875	NT	NT	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.066	NT	NT	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	<0.0585	NT	NT	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.0865	NT	NT	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	<0.836	NT	NT	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	<0.0786	NT	NT	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	<0.0728	NT	NT	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	<0.496	NT	NT	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	<0.0569	NT	NT	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	<0.115	NT	NT	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	<1.31	NT	NT	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	<1.03	NT	NT	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	<0.0639	NT	NT	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	<0.0776	NT	NT	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	<0.0955	NT	NT	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	<0.0522	NT	NT	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	<0.0718	NT	NT	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	<0.0902	NT	NT	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.105	NT	NT	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	<0.618	NT	NT	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	<0.141	NT	NT	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	<0.0813	NT	NT	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	<0.055	NT	NT	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.0936	NT	NT	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	<0.0732	NT	NT	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	<0.137	NT	NT	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	<0.553	NT	NT	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	<0.681	NT	NT	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	<0.0954	NT	NT	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	<0.948	NT	NT	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	<0.506	NT	NT	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	<0.0556	NT	NT	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	<0.0732	NT	NT	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	<0.13	NT	NT	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.0923	NT	NT	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	<0.082	NT	NT	NT	NT
VOAs (EPA Method 8260)											
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0144	<0.0154	NT	NT	<0.0145
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.002	<0.00214	NT	NT	<0.00201
Benzene	0.03	320	18	NL	0.027	mg/kg	0.000488 J	<0.00045	NT	NT	<0.000422
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00111	<0.00118	NT	NT	<0.00111
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.00083	<0.000887	NT	NT	<0.000832
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.0063	<0.00673	NT	NT	<0.00631
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.0039	<0.00416	NT	NT	<0.00391
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00404	<0.00432	NT	NT	<0.00406
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00266	<0.00285	NT	NT	<0.00267
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00163	<0.00174	NT	NT	<0.00164
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00114	<0.00122	NT	NT	<0.00114
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000603	<0.000645	NT	NT	<0.000605
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00114	<0.00122	NT	NT	<0.00114
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000437	<0.000467	NT	NT	0.000616 J
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00146	<0.00156	NT	NT	<0.00147
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000969	<0.00104	NT	NT	<0.000972
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00119	<0.00127	NT	NT	<0.00119
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000909	<0.000971	NT	NT	<0.000911
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00245	<0.00262	NT	NT	<0.00246
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00537	<0.00574	NT	NT	<0.00539
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000474	<0.000506	NT	NT	<0.000475
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00153	<0.00163	NT	NT	<0.00153
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00179	<0.00191	NT	NT	<0.0018
Dichlorobenzene, 1,4-	NL	5600									

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB15				
Laboratory Identification							L1161924-01 L1165576-01	L1161924-02	L1169568-01	L1169568-02	L1161924-03 L1165576-03
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	1 - 2 ft	3 - 4 ft	6 - 8 ft	10 - 12 ft
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000527	<0.000563	NT	NT	<0.000528
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000727	<0.000777	NT	NT	<0.000729
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00151	<0.00161	NT	NT	<0.00151
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00134	<0.00143	NT	NT	<0.00134
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00184	<0.00197	NT	NT	<0.00185
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000835	<0.000893	NT	NT	<0.000837
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000737	<0.000788	NT	NT	<0.000739
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000714	<0.000763	NT	NT	<0.000716
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00161	<0.00172	NT	NT	<0.00162
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000369	<0.000394	NT	NT	<0.00037
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000558	<0.000597	NT	NT	<0.00056
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000553	<0.000591	NT	NT	<0.000554
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0134	<0.0143	NT	NT	<0.0134
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	<0.0132	<0.0141	NT	NT	<0.0132
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0105	<0.0113	NT	NT	<0.0106
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00105	<0.00113	NT	NT	<0.00106
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00699	<0.00747	NT	NT	<0.00701
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000311	<0.000332	NT	NT	<0.000312
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00329	<0.00351	NT	NT	<0.00329
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00124	<0.00133	NT	NT	<0.00125
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00288	<0.00307	NT	NT	<0.00288
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000527	<0.000563	NT	NT	<0.000528
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000411	<0.000439	NT	NT	<0.000412
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000737	<0.000788	NT	NT	<0.000739
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00440 J	0.00428 J	NT	NT	0.00228 J
Trichloro-1,2,2-trifluoroethane, 1,1	NL	2400000	NL	NL	NL	mg/kg	<0.000711	<0.00076	NT	NT	<0.000713
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000658	<0.000703	NT	NT	<0.00066
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00508	<0.00542	NT	NT	<0.00509
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.00029	<0.00031	NT	NT	<0.00029
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.00093	<0.000994	NT	NT	<0.000932
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000421	<0.00045	NT	NT	<0.000422
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000527	<0.000563	NT	NT	<0.000528
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00537	<0.00574	NT	NT	<0.00539
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00121	<0.00129	NT	NT	<0.00121
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	<0.00122	<0.00131	NT	NT	<0.00122
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00114	<0.00122	NT	NT	<0.00114
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000719	<0.000769	NT	NT	<0.000721
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00503	<0.00538	NT	NT	<0.00505

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB15A		
Laboratory Identification							L1165628-01 L1168120-01	L1168403-24	L1165628-02 L1168120-02
Sample Date							11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft
Hydrocarbon (NWTPHGx and NWTPHDx)									
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	2280	438 T8	536
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	4820	815 T8	1210
Metals (EPA Method 6010/7471)									
Arsenic	20	24	0.67	20	2.9	mg/kg	15.7	NT	1.500 J
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT
Other									
% Moisture	NL	NL	NL	NL	NL	%	94.7	90.7	90.3
PCBs (EPA Method 8082)									
Aroclor 1016	NL	5.6	14.00	NL	NL	mg/kg	<0.0037	NT	NT
Aroclor 1221	NL	NL	NL	NL	NL	mg/kg	<0.00567	NT	NT
Aroclor 1232	NL	NL	NL	NL	NL	mg/kg	<0.0044	NT	NT
Aroclor 1242	NL	NL	NL	NL	NL	mg/kg	<0.00335	NT	NT
Aroclor 1248	NL	NL	NL	NL	NL	mg/kg	<0.00332	NT	NT
Aroclor 1254	NL	1.6	0.50	NL	NL	mg/kg	<0.00498	NT	NT
Aroclor 1260	NL	NL	0.50	NL	NL	mg/kg	0.01050 J	NT	NT
SVOCs (Method 8270)									
Acenaphthene	NL	4800	NL	NL	98	mg/kg	<0.0678	NT	<0.00711
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	<0.0708	NT	<0.00743
Anthracene	NL	24000	NL	NL	2300	mg/kg	<0.0667	NT	<0.007
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.0452	NT	<0.00474
Benzidine	NL	240	0.0043	NL	NL	mg/kg	<0.672	NT	<0.0705
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	<0.0578	NT	<0.00607
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0734	NT	<0.0077
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	<0.0761	NT	<0.00798
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0614	NT	<0.00645
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	<0.0813	NT	<0.00853
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	<0.0946	NT	<0.00992
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	<0.0802	NT	<0.00842
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	<0.127	NT	<0.0133
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.12	NT	<0.0126
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	<0.109	NT	<0.0114
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	<0.0504	NT	<0.00528
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	<0.0675	NT	<0.00708
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	<0.0877	NT	<0.0092
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.0662	NT	<0.00694
Chrysene	NL	NL	NL	NL	NL	mg/kg	<0.0586	NT	<0.00615
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.0867	NT	<0.00909
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	<0.838	NT	<0.0879
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	<0.0787	NT	<0.00826
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	<0.0729	NT	<0.00765
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	<0.497	NT	<0.0522
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	<0.057	NT	<0.00598
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	<0.115	NT	<0.0121
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	<1.31	NT	<0.137
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	<1.03	NT	<0.109
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	<0.0641	NT	<0.00672
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	<0.0778	NT	<0.00816
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	<0.0957	NT	<0.01
Fluoranthene	NL	3200	NL	NL	630	mg/kg	<0.0524	NT	<0.00549
Fluorene	NL	3200	NL	NL	100	mg/kg	<0.072	NT	<0.00755
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	<0.0904	NT	<0.00948
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.106	NT	<0.0111
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	<0.62	NT	<0.065
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	<0.141	NT	<0.0148
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	<0.0815	NT	<0.00855
Isophorone	NL	16000	1100	NL	0.23	mg/kg	<0.0551	NT	<0.00578
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.0938	NT	<0.00984
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	<0.0734	NT	<0.0077
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	<0.137	NT	<0.0144
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	<0.554	NT	<0.0581
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	<0.683	NT	<0.0716
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	<0.0956	NT	<0.01
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	<0.95	NT	<0.0997
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	<0.507	NT	<0.0532
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	<0.0557	NT	<0.00585
Phenol	NL	24000	NL	NL	11	mg/kg	<0.0734	NT	<0.0077
Pyrene	NL	2400	NL	NL	650	mg/kg	<0.13	NT	<0.0136
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.0925	NT	<0.0097
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	<0.0822	NT	<0.00863

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB15B					
Laboratory Identification							L1165628-03 L1168120-03	L1168403-25	L1165628-04 L1168120-04	L1168120-09	L1169561-01	L1169561-02
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	6 - 8 ft	14 - 15 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	NT	NT	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	NT	NT	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	917	371 T8	9.17	NT	NT	NT
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	878	265 T8	20.1	NT	NT	NT
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	36.4	NT	3.96	22.6	2.64	1.73 J
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	95	92.7	94.3	91.4	93.5	92.4
SVOCs (Method 8270)												
Acenaphthene	NL	4800	NL	NL	98	mg/kg	<0.0676	NT	<0.00681	NT	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	<0.0706	NT	<0.00711	NT	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	<0.0665	NT	<0.0067	NT	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.045	NT	<0.00454	NT	NT	NT
Benzidine	NL	240	0.0043	NL	NL	mg/kg	<0.67	NT	<0.0675	NT	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	<0.0577	NT	<0.00581	NT	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0731	NT	<0.00737	NT	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	<0.0759	NT	<0.00764	NT	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0612	NT	<0.00617	NT	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	<0.081	NT	<0.00816	NT	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	<0.0943	NT	<0.0095	NT	NT	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	<0.08	NT	<0.00806	NT	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	<0.126	NT	<0.0127	NT	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.12	NT	<0.0121	NT	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	<0.108	NT	<0.0109	NT	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	<0.0502	NT	<0.00506	NT	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	<0.0672	NT	<0.00677	NT	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	<0.0874	NT	<0.00881	NT	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.066	NT	<0.00665	NT	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	<0.0584	NT	<0.00588	NT	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.0864	NT	<0.0087	NT	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	<0.836	NT	<0.0842	NT	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	<0.0785	NT	<0.00791	NT	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	<0.0727	NT	<0.00733	NT	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	<0.496	NT	<0.0499	NT	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	<0.0568	NT	<0.00573	NT	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	<0.115	NT	<0.0116	NT	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	<1.3	NT	<0.131	NT	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	<1.03	NT	<0.104	NT	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	<0.0639	NT	<0.00644	NT	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	<0.0776	NT	<0.00781	NT	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	<0.0954	NT	<0.00962	NT	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	<0.0522	NT	<0.00526	NT	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	<0.0718	NT	<0.00723	NT	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	<0.0901	NT	<0.00908	NT	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.105	NT	<0.0106	NT	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	<0.618	NT	<0.0622	NT	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	<0.141	NT	<0.0142	NT	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	<0.0812	NT	<0.00818	NT	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	<0.0549	NT	<0.00553	NT	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.0935	NT	<0.00943	NT	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	<0.0731	NT	<0.00737	NT	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	<0.137	NT	<0.0138	NT	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	<0.552	NT	<0.0557	NT	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	<0.681	NT	<0.0686	NT	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	<0.0953	NT	<0.00961	NT	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	<0.947	NT	<0.0954	NT	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	<0.505	NT	<0.0509	NT	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	<0.0556	NT	<0.0056	NT	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	<0.0731	NT	<0.00737	NT	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	<0.129	NT	<0.013	NT	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.0922	NT	<0.00929	NT	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	<0.082	NT	<0.00826	NT	NT	NT

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB15C			SB15D		
Laboratory Identification							L1165628-05 L1168120-05	L1168403-26	L1165628-06 L1168120-06	L1165628-07 L1168120-07	L1168403-27	L1165628-08 L1168120-08
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	0 - 1 ft	1 - 2 ft	2 - 3 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	NT	NT	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	NT	NT	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	91 J	118 T8	93.4 J	<71.1	35.1 J T8	39 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1430	789 T8	1010	913	180 T8	355
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	16.8	NT	8.67	18.2	NT	2.96
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	94.4	88.8	93.9	93.6	92.8	93.1
SVOCs (Method 8270)												
Acenaphthene	NL	4800	NL	NL	98	mg/kg	<0.068	NT	<0.137	<0.0686	NT	<0.0345
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	<0.0711	NT	<0.143	<0.0717	NT	<0.036
Anthracene	NL	24000	NL	NL	2300	mg/kg	<0.0669	NT	<0.135	<0.0675	NT	<0.0339
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.0453	NT	<0.0912	<0.0457	NT	<0.023
Benzidine	NL	240	0.0043	NL	NL	mg/kg	<0.675	NT	<1.36	<0.681	NT	<0.342
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	<0.0581	NT	<0.117	<0.0586	NT	<0.0294
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0736	NT	<0.148	<0.0743	NT	<0.0373
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	<0.0764	NT	<0.154	<0.0771	NT	<0.0387
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0617	NT	<0.124	<0.0622	NT	<0.0312
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	<0.0816	NT	<0.164	<0.0823	NT	<0.0413
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	<0.0949	NT	<0.191	<0.0958	NT	<0.0481
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	<0.0805	NT	<0.162	<0.0812	NT	<0.0408
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	<0.127	NT	<0.256	<0.128	NT	<0.0644
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.121	NT	<0.243	<0.122	NT	<0.0612
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	<0.109	NT	<0.219	<0.11	NT	<0.0553
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	<0.0505	NT	<0.102	<0.051	NT	<0.0256
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	<0.0677	NT	<0.136	<0.0683	NT	<0.0343
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	<0.088	NT	<0.177	<0.0888	NT	<0.0446
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.0664	NT	<0.134	<0.067	NT	<0.0337
Chrysene	NL	NL	NL	NL	NL	mg/kg	<0.0588	NT	<0.118	<0.0593	NT	<0.0298
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.087	NT	<0.175	<0.0878	NT	<0.0441
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	<0.841	NT	<1.69	<0.849	NT	<0.426
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	<0.079	NT	<0.159	<0.0797	NT	<0.0401
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	<0.0732	NT	<0.147	<0.0739	NT	<0.0371
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	<0.499	NT	<1	<0.503	NT	<0.253
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	<0.0572	NT	<0.115	<0.0577	NT	<0.029
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	<0.115	NT	<0.232	<0.117	NT	<0.0585
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	<1.31	NT	<2.64	<1.33	NT	<0.666
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	<1.04	NT	<2.09	<1.05	NT	<0.526
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	<0.0643	NT	<0.129	<0.0649	NT	<0.0326
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	<0.0781	NT	<0.157	<0.0788	NT	<0.0396
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	<0.0961	NT	<0.193	<0.0969	NT	<0.0487
Fluoranthene	NL	3200	NL	NL	630	mg/kg	<0.0525	NT	<0.106	<0.053	NT	<0.0266
Fluorene	NL	3200	NL	NL	100	mg/kg	<0.0722	NT	<0.145	<0.0729	NT	<0.0366
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	<0.0907	NT	<0.182	<0.0915	NT	<0.046
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.106	NT	<0.213	<0.107	NT	<0.0537
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	<0.622	NT	<1.25	<0.627	NT	<0.315
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	<0.142	NT	<0.285	<0.143	NT	<0.0719
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	<0.0818	NT	<0.164	<0.0825	NT	<0.0415
Isophorone	NL	16000	1100	NL	0.23	mg/kg	<0.0553	NT	<0.111	<0.0558	NT	<0.028
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.0942	NT	<0.189	<0.095	NT	<0.0477
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	<0.0736	NT	<0.148	<0.0743	NT	<0.0373
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	<0.138	NT	<0.277	<0.139	NT	<0.0698
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	<0.556	NT	<1.12	<0.561	NT	<0.282
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	<0.685	NT	<1.38	<0.692	NT	<0.347
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	<0.096	NT	<0.193	<0.0968	NT	<0.0486
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	<0.953	NT	<1.92	<0.962	NT	<0.483
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	<0.508	NT	<1.02	<0.513	NT	<0.258
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	<0.0559	NT	<0.112	<0.0564	NT	<0.0283
Phenol	NL	24000	NL	NL	11	mg/kg	<0.0736	NT	<0.148	<0.0743	NT	<0.0373
Pyrene	NL	2400	NL	NL	650	mg/kg	<0.13	NT	<0.262	<0.131	NT	<0.066
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.0928	NT	<0.187	<0.0936	NT	<0.047
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	<0.0825	NT	<0.166	<0.0833	NT	<0.0418

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB16			
Laboratory Identification							L1161400-08	L1168403-11	L1161400-09 L1165576-09	L1161400-10
Sample Date							11/13/2019	11/14/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	10 - 12 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	-	NT	-	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	<0.928	NT	<0.941	<0.98
Diesel range organics	2000	NL	NL	460	NL	mg/kg	151.0 J	76.9 J T8	28.9 J	<15.4
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1390	445 T8	253	82.8 J
Metals (EPA Method 6010/7471)										
Arsenic	20	24	0.67	20	2.9	mg/kg	2.93	NT	5.37	4.73
Barium	NL	16000	NL	1250	1600	mg/kg	51.1	NT	88.8	85.3
Cadmium	2	8	NL	25	0.69	mg/kg	0.1600 J	NT	0.2140 J	0.2180 J
Lead	250	NL	NL	220	3000	mg/kg	8.54	NT	11.5	22.3
Mercury	2	NL	NL	9	2.1	mg/kg	0.01900 J	NT	0.0368	0.0396
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.679	NT	<0.688	<0.717
Silver	NL	400	NL	NL	14	mg/kg	<0.131	NT	<0.133	<0.139
Total Chromium	NL	NL	NL	42	NL	mg/kg	20.4	NT	34.3	30.5
Other										
% Moisture	NL	NL	NL	NL	NL	%	91.3	87	90.1	86.5
SVOCs (Method 8270)										
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	<0.0143	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0149	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	<0.014	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0095	NT
Benzdine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	<0.141	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	<0.0122	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0154	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.016	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0129	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0171	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	<0.0199	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0169	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	<0.0266	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0253	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	<0.0229	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	<0.0106	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	<0.0142	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	<0.0184	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0139	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0123	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0182	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	<0.176	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	<0.0166	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	<0.0153	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	<0.105	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.012	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	<0.0242	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	<0.275	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	<0.218	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	<0.0135	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	<0.0164	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	<0.0201	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	<0.011	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	<0.0151	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	<0.019	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	<0.0222	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	<0.13	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	<0.0297	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0171	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	<0.0116	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	<0.0197	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	<0.0154	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0289	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.117	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	<0.144	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	<0.0201	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	<0.2	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	<0.107	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0117	NT
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	<0.0154	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	<0.0273	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	<0.0194	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	NT	<0.0173	NT

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB16			
Laboratory Identification							L1161400-08	L1168403-11	L1161400-09 L1165576-09	L1161400-10
Sample Date							11/13/2019	11/14/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	10 - 12 ft
VOAs (EPA Method 8260)										
Acetone	NL	72000	NL	NL	29	mg/kg	<0.015	NT	0.0160 J	<0.0158
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00208	NT	<0.00211	<0.0022
Benzene	0.03	320	18	NL	0.027	mg/kg	<0.000438	NT	<0.000444	<0.000463
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00115	NT	<0.00117	<0.00121
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000863	NT	<0.000875	<0.000911
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00655	NT	<0.00664	<0.00692
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00405	NT	<0.00411	<0.00428
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00421	NT	<0.00426	<0.00444
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00277	NT	<0.00281	<0.00293
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.0017	NT	<0.00172	<0.00179
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00118	NT	<0.0012	<0.00125
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000628	NT	<0.000636	<0.000663
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00118	NT	<0.0012	<0.00125
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000454	NT	0.000927 J	<0.00048
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00152	NT	<0.00154	<0.00161
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00101	NT	<0.00102	<0.00106
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00124	NT	<0.00125	<0.00131
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000945	NT	<0.000958	<0.000998
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00255	NT	0.00271 J	<0.00269
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00559	NT	<0.00566	<0.0059
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000493	NT	<0.000499	<0.00052
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00159	NT	<0.00161	<0.00168
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00186	NT	<0.00189	<0.00197
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00216	NT	<0.00219	<0.00228
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000896	NT	<0.000908	<0.000946
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.00063	NT	<0.000638	<0.000665
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.00052	NT	<0.000527	<0.000549
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000548	NT	<0.000555	<0.000578
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000756	NT	<0.000766	<0.000798
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00157	NT	<0.00159	<0.00165
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00139	NT	<0.00141	<0.00147
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00192	NT	<0.00194	<0.00202
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000868	NT	<0.00088	<0.000917
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000767	NT	<0.000777	<0.000809
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000743	NT	<0.000753	<0.000784
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00168	NT	<0.0017	<0.00177
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000383	NT	<0.000388	<0.000405
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	0.00139 J	NT	0.000714 J	<0.000613
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000575	NT	<0.000583	<0.000607
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0139	NT	<0.0141	<0.0147
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	<0.0137	NT	0.0148 B J	<0.0145
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.011	NT	<0.0111	<0.0116
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.0011	NT	<0.00111	<0.00116
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00727	NT	<0.00737	<0.00768
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000323	NT	<0.000327	<0.000341
Naphthalene	5	1600	NL	NL	4.5	mg/kg	0.00657 J	NT	0.00393 J	<0.00361
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00129	NT	<0.00131	<0.00136
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00299	NT	<0.00303	<0.00316
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000548	NT	<0.000555	<0.000578
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000427	NT	<0.000433	<0.000451
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000767	NT	<0.000777	<0.000809
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00410 J	NT	0.00562	0.00596
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000739	NT	<0.000749	<0.000781
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000684	NT	<0.000694	<0.000723
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00528	NT	<0.00535	<0.00557
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000301	NT	<0.000305	<0.000318
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.000967	NT	<0.00098	<0.00102
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000438	NT	<0.000444	<0.000463
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000548	NT	<0.000555	<0.000578
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00559	NT	<0.00566	<0.0059
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00126	NT	<0.00128	0.00221 J
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	0.00287 B J	NT	0.00275 B J	0.00368 B J
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00118	NT	<0.0012	0.00125 J
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000748	NT	<0.000758	<0.00079
Xylenes	9	16000	NL	NL	14	mg/kg	0.00723	NT	<0.00531	<0.00553

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB16A		SB16B		SB16C	
Laboratory Identification							L1168403-12	L1168403-13	L1168403-14	L1168403-15	L1168403-16	L1168403-17
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	NT	NT	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	NT	NT	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	84.3 J T8	40.8 J T8	235 T8	38.9 J T8	405 T8	69.9 T8
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	400 T8	196 T8	1070 T8	174 T8	1530 T8	299 T8
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	89.8	86.3	89.1	89.5	93.2	91.5

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB16D				
Laboratory Identification							L1168403-18	L1168403-19	L1165628-09	L1161400-19	L1161400-20
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	3 - 4 ft	6 - 8 ft	14 - 15 ft
Hydrocarbon (NWTPHGx and NWTPHDx)											
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	2.92 B	-	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	-	<1.03	<1.02
Diesel range organics	2000	NL	NL	460	NL	mg/kg	27 T8	143 T8	NT	12.1	<1.59
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	113 T8	664 T8	NT	63.4	8.87 J
Metals (EPA Method 6010/7471)											
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	7.94	3.52
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	114	82.9
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	0.9	0.2270 J
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT	73.5	15.8
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	0.0662	0.03450 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	<0.753	<0.743
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	<0.146	<0.144
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	32.6	31
Other											
% Moisture	NL	NL	NL	NL	NL	%	89.6	89.3	82.4	82.4	83.5
SVOCs (Method 8270)											
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	<0.00744	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00778	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	<0.00733	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	0.00567 J	NT	NT
Benztidine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	<0.0738	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	<0.00635	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00806	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00836	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00675	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00892	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	<0.0104	NT	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00881	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	0.0192 J	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0132	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	<0.0119	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	<0.00553	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	<0.00741	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	<0.00963	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00727	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	0.0109 J	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00952	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	<0.092	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	<0.00865	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	<0.00801	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	<0.0546	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00626	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	<0.0126	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	<0.144	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	<0.114	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	<0.00704	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	<0.00854	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	<0.0105	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	0.00984 J	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	<0.0079	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	<0.00992	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	<0.0116	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	<0.068	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	<0.0155	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00895	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	<0.00605	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	0.0178 J	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	<0.00806	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0151	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0609	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	<0.075	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	<0.0105	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	<0.104	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	<0.0556	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	0.0144 J	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	0.017 J	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	<0.0143	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	<0.0102	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	NT	<0.00903	NT	NT

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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB16D				
Laboratory Identification							L1168403-18	L1168403-19	L1165628-09	L1161400-19	L1161400-20
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	3 - 4 ft	6 - 8 ft	14 - 15 ft
VOAs (EPA Method 8260)											
Acetone	NL	72000	NL	NL	29	mg/kg	NT	NT	NT	<0.0166	<0.0164
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	NT	NT	NT	<0.00231	<0.00228
Benzene	0.03	320	18	NL	0.027	mg/kg	NT	NT	NT	<0.000486	<0.000479
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	NT	NT	NT	<0.00128	<0.00126
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	NT	NT	NT	<0.000957	<0.000944
Bromoform	NL	1600	130	NL	0.36	mg/kg	NT	NT	NT	<0.00726	<0.00716
Bromomethane	NL	110	NL	NL	0.05	mg/kg	NT	NT	NT	<0.00449	<0.00443
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	NT	NT	NT	<0.00466	<0.0046
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	NT	NT	NT	<0.00307	<0.00303
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	NT	NT	NT	<0.00188	<0.00186
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	NT	NT	NT	<0.00131	<0.00129
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	NT	NT	NT	<0.000696	<0.000686
Chloroethane	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00131	<0.00129
Chloroform	NL	800	32	NL	0.074	mg/kg	NT	NT	NT	<0.000504	<0.000497
Chloromethane	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00169	<0.00166
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	NT	NT	NT	<0.00112	<0.0011
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00137	<0.00135
Cumene	NL	8000	NL	NL	NL	mg/kg	NT	NT	NT	<0.00105	<0.00103
Cymene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	0.0203	0.00674
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	NT	NT	NT	<0.00619	<0.00611
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	NT	NT	NT	<0.000546	<0.000539
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	NT	NT	NT	<0.00176	<0.00174
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00206	<0.00204
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	NT	NT	NT	<0.00239	<0.00236
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	NT	NT	NT	<0.000993	<0.00098
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	NT	NT	NT	<0.000698	<0.000689
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	NT	NT	NT	<0.000577	<0.000569
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	NT	NT	NT	<0.000607	<0.000599
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	NT	NT	NT	<0.000838	<0.000826
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	NT	NT	NT	<0.00174	<0.00171
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	NT	NT	NT	<0.00154	<0.00152
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00213	<0.0021
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.000963	<0.00095
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00085	<0.000838
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.000823	<0.000812
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00186	<0.00183
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.000425	<0.000419
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	NT	NT	NT	<0.000644	<0.000635
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	NT	NT	NT	<0.000638	<0.000629
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	NT	<0.0154	<0.0152
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	NT	NT	NT	<0.0152	<0.015
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	NT	NT	NT	<0.0121	<0.012
Methylene bromide	NL	800	NL	NL	NL	mg/kg	NT	NT	NT	<0.00121	<0.0012
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	NT	NT	NT	<0.00806	<0.00795
MTBE	0.1	NL	560	NL	0.1	mg/kg	NT	NT	NT	<0.000358	<0.000353
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	NT	0.00379 J	<0.00374
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	NT	NT	NT	<0.00143	<0.00141
Styrene	NL	16000	NL	NL	2.2	mg/kg	NT	NT	NT	<0.00332	<0.00327
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	NT	NT	NT	<0.000607	<0.000599
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	NT	NT	NT	<0.000474	<0.000467
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	NT	NT	NT	<0.00085	<0.000838
Toluene	7	6400	NL	NL	4.5	mg/kg	NT	NT	NT	0.00618	0.0039 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	NT	NT	NT	<0.00082	<0.000808
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.000759	<0.000749
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	NT	<0.00585	<0.00577
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	NT	NT	NT	<0.000334	<0.000329
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	NT	NT	NT	<0.00107	<0.00106
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	NT	NT	NT	<0.000486	<0.000479
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	NT	NT	NT	<0.000607	<0.000599
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	NT	NT	NT	<0.00619	<0.00611
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	NT	NT	NT	<0.0014	<0.00138
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	NT	NT	NT	0.00206 B J	0.00181 B J
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	NT	NT	NT	<0.00131	<0.00129
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	NT	NT	NT	<0.000829	<0.000818
Xylenes	9	16000	NL	NL	14	mg/kg	NT	NT	NT	<0.0058	<0.00572

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17					
Laboratory Identification							L1161400-11 L1166078-01	L1165628-10	L1165628-11	L1165628-12	L1161400-12	L1161400-13
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	6 - 8 ft	14 - 15 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.907	NT	NT	NT	2.27 B J	<0.957
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	<0.907	NT	NT	NT	-	<0.957
Diesel range organics	2000	NL	NL	460	NL	mg/kg	135.0 J	10.9 J	121	146 J	9.11	27.8
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	2300	136	104	717	29.1	11.7
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	4.77	NT	NT	NT	7.96	3.49
Barium	NL	16000	NL	1250	1600	mg/kg	65	NT	NT	NT	112	68.3
Cadmium	2	8	NL	25	0.69	mg/kg	0.1560 J	NT	NT	NT	0.3710 J	0.118 J
Lead	250	NL	NL	220	3000	mg/kg	19.4	NT	NT	NT	30.3	4.44
Mercury	2	NL	NL	9	2.1	mg/kg	0.022 J	NT	NT	NT	0.0497	0.02510 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.664	NT	NT	NT	<0.752	<0.7
Silver	NL	400	NL	NL	14	mg/kg	<0.128	NT	NT	NT	<0.146	<0.135
Total Chromium	NL	NL	NL	42	NL	mg/kg	25.8	NT	NT	NT	29.9	32.3
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
SVOCs (EPA Method 8270c)												
Acenaphthene	NL	4800	NL	NL	98	mg/kg	<0.137	<0.0141	<0.0072	<0.0694	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	<0.144	<0.0147	<0.00753	<0.0726	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	<0.135	<0.0139	<0.00709	<0.0684	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.0916	<0.0094	<0.0048	<0.0463	NT	NT
Benzidine	NL	240	0.0043	NL	NL	mg/kg	<1.36	<0.14	<0.0715	<0.689	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	<0.117	<0.012	<0.00615	<0.0593	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.149	<0.0153	<0.0078	<0.0752	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	<0.154	<0.0158	<0.00809	<0.078	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.125	<0.0128	<0.00653	<0.063	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	<0.165	<0.0169	<0.00864	<0.0833	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	<0.192	<0.0197	<0.0101	<0.0969	NT	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	<0.163	<0.0167	<0.00853	<0.0822	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	<0.257	<0.0264	<0.0135	<0.13	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.244	<0.025	<0.0128	<0.123	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	<0.221	<0.0226	<0.0116	<0.111	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	<0.102	<0.0105	<0.00535	<0.0516	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	<0.137	<0.014	<0.00717	<0.0691	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	<0.178	<0.0183	<0.00932	<0.0899	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.134	<0.0138	<0.00703	<0.0678	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	<0.119	<0.0122	<0.00623	<0.06	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.176	<0.018	<0.00921	<0.0888	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	<1.7	<0.174	<0.0891	<0.859	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	<0.16	<0.0164	<0.00837	<0.0807	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	<0.148	<0.0152	<0.00775	<0.0747	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	<1.01	<0.103	<0.0528	<0.509	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	<0.116	<0.0119	<0.00606	<0.0584	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	<0.233	<0.024	<0.0122	<0.118	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	<2.65	<0.272	<0.139	<1.34	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	<2.1	<0.215	<0.11	<1.06	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	<0.13	<0.0133	<0.00681	<0.0657	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	<0.158	<0.0162	<0.00827	<0.0797	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	<0.194	<0.0199	<0.0102	<0.0981	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	<0.106	<0.0109	<0.00556	<0.0536	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	<0.146	<0.015	0.0163 J	<0.0738	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	<0.183	<0.0188	<0.0096	<0.0926	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.214	<0.022	<0.0112	<0.108	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	<1.26	<0.129	<0.0658	<0.635	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	<0.287	<0.0294	<0.015	<0.145	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	<0.165	<0.017	<0.00866	<0.0835	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	<0.112	<0.0115	<0.00586	<0.0565	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.19	<0.0195	<0.00997	<0.0962	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	<0.149	<0.0153	<0.0078	<0.0752	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	<0.278	<0.0286	<0.0146	<0.141	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	<1.12	<0.115	<0.0589	<0.568	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	<1.39	<0.142	<0.0726	<0.7	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	<0.194	<0.0199	<0.0102	<0.098	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	<1.93	<0.198	<0.101	<0.973	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	<1.03	<0.105	<0.0538	<0.519	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	<0.113	<0.0116	0.0324 J	<0.0571	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	<0.149	<0.0153	<0.0078	<0.0752	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	<0.263	<0.027	<0.0138	<0.133	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.188	<0.0192	<0.00983	<0.0948	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	<0.167	<0.0171	<0.00874	<0.0843	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	93.4	91	89.1	92.5	82.4	88.6

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17					
Laboratory Identification							L1161400-11 L1166078-01	L1165628-10	L1165628-11	L1165628-12	L1161400-12	L1161400-13
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft	6 - 8 ft	14 - 15 ft
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0147	NT	NT	NT	0.0656	<0.0155
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00203	NT	NT	NT	<0.00231	<0.00214
Benzene	0.03	320	18	NL	0.027	mg/kg	<0.000428	NT	NT	NT	0.0021	<0.000452
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00112	NT	NT	NT	<0.00127	<0.00119
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000844	NT	NT	NT	<0.000956	<0.00089
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.0064	NT	NT	NT	<0.00726	<0.00675
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00396	NT	NT	NT	<0.00449	<0.00418
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00411	NT	NT	NT	<0.00466	<0.00434
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00271	NT	NT	NT	<0.00307	<0.00286
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00166	NT	NT	NT	<0.00188	<0.00175
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00116	NT	NT	NT	<0.00131	<0.00122
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000613	NT	NT	NT	<0.000695	<0.000647
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00116	NT	NT	NT	<0.00131	<0.00122
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000444	NT	NT	NT	<0.000504	0.000668 J
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00149	NT	NT	NT	<0.00169	<0.00157
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000985	NT	NT	NT	<0.00112	<0.00104
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00121	NT	NT	NT	<0.00137	<0.00128
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000924	NT	NT	NT	<0.00105	<0.000974
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00249	NT	NT	NT	0.0199	<0.00263
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00546	NT	NT	NT	<0.00619	<0.00576
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000482	NT	NT	NT	<0.000546	<0.000508
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00155	NT	NT	NT	<0.00176	<0.00164
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00182	NT	NT	NT	<0.00206	<0.00192
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00211	NT	NT	NT	<0.00239	<0.00222
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000876	NT	NT	NT	<0.000993	<0.000923
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000616	NT	NT	NT	<0.000698	<0.000649
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000508	NT	NT	NT	<0.000576	<0.000536
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000535	NT	NT	NT	<0.000607	<0.000564
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000739	NT	NT	NT	<0.000837	<0.000779
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00153	NT	NT	NT	<0.00174	<0.00161
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00136	NT	NT	NT	<0.00154	<0.00143
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00187	NT	NT	NT	<0.00212	<0.00198
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000849	NT	NT	NT	<0.000962	<0.000895
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000749	NT	NT	NT	<0.000849	<0.00079
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000726	NT	NT	NT	<0.000823	<0.000765
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00164	NT	NT	NT	<0.00186	<0.00173
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000375	NT	NT	NT	<0.000425	<0.000395
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	0.000788 J	NT	NT	NT	0.001650 J	<0.000598
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000562	NT	NT	NT	<0.000637	<0.000593
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0136	NT	NT	NT	<0.0154	<0.0143
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	<0.0134	NT	NT	NT	0.0376 B	<0.0141
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0107	NT	NT	NT	<0.0121	<0.0113
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00107	NT	NT	NT	<0.00121	<0.00113
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00711	NT	NT	NT	<0.00806	<0.0075
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000316	NT	NT	NT	<0.000358	<0.000333
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00334	NT	NT	NT	0.00706 J	<0.00352
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00126	NT	NT	NT	<0.00143	<0.00133
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00292	NT	NT	NT	<0.00331	<0.00308
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000535	NT	NT	NT	<0.000607	<0.000564
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000417	NT	NT	NT	<0.000473	<0.00044
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000749	NT	NT	NT	<0.000849	<0.00079
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00416 J	NT	NT	NT	0.0125	0.00369 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000723	NT	NT	NT	<0.000819	<0.000762
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000669	NT	NT	NT	<0.000758	<0.000706
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00516	NT	NT	NT	<0.00585	<0.00544
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000294	NT	NT	NT	<0.000334	<0.00031
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.000945	NT	NT	NT	<0.00107	<0.000997
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000428	NT	NT	NT	<0.000485	<0.000452
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000535	NT	NT	NT	<0.000607	<0.000564
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00546	NT	NT	NT	<0.00619	<0.00576
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00123	NT	NT	NT	0.0037 J	<0.0013
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	0.00197 B J	NT	NT	NT	0.00309 B J	0.00173 B J
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00116	NT	NT	NT	0.00157 J	<0.00122
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000731	NT	NT	NT	<0.000829	<0.000771
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00512	NT	NT	NT	<0.0058	<0.0054

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17A			
Laboratory Identification							L1168403-20	L1168403-21	L1161400-14	L1161400-15
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	7 - 8 ft	12 - 13 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	13.40 B	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	-	4.25
Diesel range organics	2000	NL	NL	460	NL	mg/kg	164 J T8	58.8 T8	40.0 J	6.4
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1080 T8	396 T8	130	21.4
Metals (EPA Method 6010/7471)										
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	10.2	4.39
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	133	93.9
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	0.3410 J	0.1540 J
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	29.4	5.95
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	0.0489	0.03330 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	<0.761	<0.688
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	<0.147	<0.133
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	32.4	50.4
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	<0.71
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	50.4
Other										
% Moisture	NL	NL	NL	NL	NL	%	90.8	91.4	81.5	90.1

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17A			
Laboratory Identification							L1168403-20	L1168403-21	L1161400-14	L1161400-15
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	7 - 8 ft	12 - 13 ft
VOAs (EPA Method 8260)										
Acetone	NL	72000	NL	NL	29	mg/kg	NT	NT	0.0345	<0.0152
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	NT	NT	<0.00233	<0.00211
Benzene	0.03	320	18	NL	0.027	mg/kg	NT	NT	0.001070 J	<0.000444
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	NT	NT	<0.00129	<0.00117
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	NT	NT	<0.000967	<0.000874
Bromoform	NL	1600	130	NL	0.36	mg/kg	NT	NT	<0.00734	<0.00664
Bromomethane	NL	110	NL	NL	0.05	mg/kg	NT	NT	<0.00454	<0.00411
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	NT	NT	0.00587 J	<0.00426
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	NT	NT	0.00617 J	<0.00281
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	NT	NT	<0.0019	<0.00172
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	NT	NT	<0.00133	<0.0012
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	NT	NT	<0.000703	<0.000636
Chloroethane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00133	<0.0012
Chloroform	NL	800	32	NL	0.074	mg/kg	NT	NT	<0.000509	<0.00046
Chloromethane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00171	<0.00154
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	NT	NT	<0.00113	<0.00102
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00139	<0.00125
Cumene	NL	8000	NL	NL	NL	mg/kg	NT	NT	0.00345	<0.000958
Cymene	NL	NL	NL	NL	NL	mg/kg	NT	NT	0.0147	0.00313 J
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	NT	NT	<0.00626	<0.00566
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	NT	NT	<0.000552	<0.000499
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	NT	NT	<0.00178	<0.00161
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00209	<0.00189
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	NT	NT	<0.00242	<0.00219
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	NT	NT	<0.001	<0.000908
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	NT	NT	<0.000706	<0.000638
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	NT	NT	<0.000583	<0.000527
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	NT	NT	<0.000614	<0.000555
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	NT	NT	<0.000847	<0.000766
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	NT	NT	<0.00176	<0.00159
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	NT	NT	<0.00156	<0.00141
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00215	<0.00194
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000973	<0.00088
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000859	<0.000777
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000832	<0.000752
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00188	<0.0017
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00043	<0.000388
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	NT	NT	0.001840 J	<0.000588
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	NT	NT	<0.000644	<0.000583
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	<0.0156	<0.0141
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	NT	NT	0.0481 B	0.0284 B
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	NT	NT	<0.0123	<0.0111
Methylene bromide	NL	800	NL	NL	NL	mg/kg	NT	NT	<0.00123	<0.00111
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	NT	NT	<0.00815	<0.00737
MTBE	0.1	NL	560	NL	0.1	mg/kg	NT	NT	<0.000362	<0.000327
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	0.019	0.00627 J
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	NT	NT	0.00393 J	<0.00131
Styrene	NL	16000	NL	NL	2.2	mg/kg	NT	NT	<0.00335	<0.00303
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	NT	NT	<0.000614	<0.000555
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	NT	NT	<0.000479	<0.000433
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	NT	NT	<0.000859	<0.000777
Toluene	7	6400	NL	NL	4.5	mg/kg	NT	NT	0.0105	0.00273 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	NT	NT	<0.000829	<0.000749
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000767	<0.000693
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	<0.00592	<0.00535
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	NT	NT	<0.000338	<0.000305
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	NT	NT	<0.00108	<0.00098
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	NT	NT	<0.000491	<0.000444
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	NT	NT	<0.000614	<0.000555
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	NT	NT	<0.00626	<0.00566
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	NT	NT	0.0517	0.00662
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	NT	NT	0.0327	0.00509 B J
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	NT	NT	0.00561 J	0.0016 J
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	NT	NT	<0.000838	<0.000758
Xylenes	9	16000	NL	NL	14	mg/kg	NT	NT	0.00835	<0.0053

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17B			
Laboratory Identification							L1168403-28	L1165628-13	L1165628-14	L1165628-15
Sample Date							11/13/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	3 - 4 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	59.7 J T8	12.8 J	9.21	12.6
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	405 T8	149	51.5	31.3
Metals (EPA Method 6010/7471)										
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT
SVOCs (EPA Method 8270c)										
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	<0.00703	<0.0139	<0.0348
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	<0.00735	<0.0145	<0.0364
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	<0.00692	<0.0137	<0.0343
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	<0.00469	<0.00926	<0.0232
Benzdine	NL	240	0.0043	NL	NL	mg/kg	NT	<0.0698	<0.138	<0.345
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	<0.006	<0.0119	<0.0297
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	<0.00761	<0.015	<0.0377
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0079	<0.0156	<0.0391
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	<0.00638	<0.0126	<0.0315
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	<0.00844	<0.0167	<0.0417
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	<0.00982	<0.0194	<0.0486
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	NT	<0.00833	<0.0164	<0.0412
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	<0.0131	<0.026	<0.065
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	<0.0125	<0.0247	<0.0618
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	<0.0113	<0.0223	<0.0558
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	<0.00523	<0.0103	<0.0259
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	<0.007	<0.0138	<0.0346
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	<0.0091	<0.018	<0.045
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	<0.00687	<0.0136	<0.034
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	<0.00608	<0.012	<0.0301
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	<0.00899	<0.0178	<0.0445
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	<0.087	<0.172	<0.43
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	<0.00817	<0.0161	<0.0404
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	<0.00757	<0.015	<0.0375
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	<0.0516	<0.102	<0.255
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	<0.00592	<0.0117	<0.0293
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	<0.0119	<0.0236	<0.0591
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	<0.136	<0.268	<0.672
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	<0.107	<0.212	<0.531
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	<0.00665	<0.0131	<0.0329
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	<0.00807	<0.0159	<0.0399
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	<0.00994	<0.0196	<0.0492
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	<0.00543	<0.0107	<0.0269
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	<0.00747	<0.0148	<0.037
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	<0.00938	<0.0185	<0.0464
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	<0.011	<0.0216	<0.0542
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	<0.0643	<0.127	<0.318
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	<0.0147	<0.029	<0.0726
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	<0.00846	<0.0167	<0.0418
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	<0.00572	<0.0113	<0.0283
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	<0.00974	<0.0192	<0.0482
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	<0.00761	<0.015	<0.0377
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	<0.0142	<0.0281	<0.0705
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	<0.0575	<0.114	<0.285
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	<0.0709	<0.14	<0.351
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	<0.00993	<0.0196	<0.0491
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	<0.0986	<0.195	<0.488
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	<0.0526	<0.104	<0.26
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	<0.00578	<0.0114	<0.0286
Phenol	NL	24000	NL	NL	11	mg/kg	NT	<0.00761	<0.015	<0.0377
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	<0.0135	<0.0266	<0.0667
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	<0.0096	<0.019	<0.0475
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	<0.00853	<0.0169	<0.0422
Other										
% Moisture	NL	NL	NL	NL	NL	%	92.9	91.3	92.4	92.2

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17C				
Laboratory Identification							L1168403-22	L1168403-23	L1161400-16	L1161400-17 L1165576-11	L1161400-18 L1165576-12
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	9 - 10 ft	14 - 15 ft
Hydrocarbon (NWTPHGx and NWTPHDx)											
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	4.22	377	580
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	4.22	-	-
Diesel range organics	2000	NL	NL	460	NL	mg/kg	371 T8	326 T8	18.6	385	294
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	2160 T8	1400 T8	19.2	830	580
Metals (EPA Method 6010/7471)											
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	3.51	5.73	5.16
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	83.8	127	89.8
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	0.1150 J	0.1720 J	0.1200 J
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	4.29	10.2	3.59
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	0.0377	0.03090 J	0.02490 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	<0.677	<0.722	<0.694
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	<0.131	<0.14	<0.134
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	27.2	43.1	34.7
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT
SVOCs (EPA Method 8270c)											
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	NT	<0.00748	<0.00719
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00781	<0.00751
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	NT	<0.00736	<0.00707
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00498	<0.00479
Benzidine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	NT	<0.0742	<0.0713
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	NT	<0.00638	<0.00613
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00809	<0.00778
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00839	<0.00807
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00678	<0.00652
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00897	<0.00862
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	NT	<0.0104	<0.01
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00885	<0.00851
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	NT	<0.014	<0.0134
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0133	<0.0128
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	NT	<0.012	<0.0115
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	NT	<0.00555	<0.00534
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	NT	<0.00744	<0.00715
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	NT	<0.00968	<0.0093
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0073	<0.00702
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00646	<0.00621
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00956	<0.00919
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	NT	<0.0924	<0.0889
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	NT	<0.00869	<0.00835
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	NT	<0.00805	<0.00774
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	NT	<0.0548	<0.0527
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00629	<0.00605
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	NT	<0.0127	<0.0122
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	NT	<0.144	<0.139
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	NT	<0.114	<0.11
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	NT	<0.00707	<0.0068
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	NT	<0.00858	<0.00825
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	NT	0.0392 J	0.0128 J
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	NT	<0.00578	<0.00555
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	NT	<0.00794	<0.00763
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	NT	<0.00997	<0.00958
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	NT	<0.0116	<0.0112
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	NT	<0.0683	<0.0657
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	NT	<0.0156	<0.015
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00899	<0.00864
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	NT	<0.00608	<0.00584
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	NT	<0.0104	<0.00995
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	NT	<0.00809	<0.00778
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0151	<0.0146
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0611	<0.0588
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	NT	<0.0753	<0.0724
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	NT	<0.0105	<0.0101
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	NT	<0.105	<0.101
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	NT	<0.0559	<0.0537
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	0.00959 J	<0.00591
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	NT	<0.00809	<0.00778
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	NT	<0.0143	<0.0138
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	NT	<0.0102	<0.00981
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	NT	NT	<0.00907	<0.00872
Other											
% Moisture	NL	NL	NL	NL	NL	%	93.3	92.2	91.6	85.9	89.3

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17C				
Laboratory Identification							L1168403-22	L1168403-23	L1161400-16	L1161400-17 L1165576-11	L1161400-18 L1165576-12
Sample Date							11/13/2019	11/13/2019	11/13/2019	11/13/2019	11/13/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	9 - 10 ft	14 - 15 ft
VOAs (EPA Method 8260)											
Acetone	NL	72000	NL	NL	29	mg/kg	NT	NT	0.043	<0.319	<0.307
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	NT	NT	<0.00207	<0.0442	<0.0425
Benzene	0.03	320	18	NL	0.027	mg/kg	NT	NT	<0.000437	0.01710 J	<0.00896
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	NT	NT	<0.00115	<0.0245	<0.0235
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	NT	NT	<0.000861	<0.0184	<0.0176
Bromoform	NL	1600	130	NL	0.36	mg/kg	NT	NT	<0.00653	<0.139	<0.134
Bromomethane	NL	110	NL	NL	0.05	mg/kg	NT	NT	<0.00404	<0.0862	<0.0828
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	NT	NT	<0.00419	<0.0894	<0.086
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	NT	NT	0.00788 J	<0.0589	<0.0566
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	NT	NT	<0.00169	<0.0361	<0.0347
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	NT	NT	<0.00118	<0.0251	<0.0242
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	NT	NT	<0.000626	<0.0133	<0.0128
Chloroethane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00118	<0.0251	<0.0242
Chloroform	NL	800	32	NL	0.074	mg/kg	NT	NT	<0.000453	0.02200 J	<0.00929
Chloromethane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00152	<0.0324	<0.0311
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	NT	NT	<0.001	<0.0214	<0.0206
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00123	<0.0263	<0.0253
Cumene	NL	8000	NL	NL	NL	mg/kg	NT	NT	<0.000942	<0.0201	<0.0193
Cymene	NL	NL	NL	NL	NL	mg/kg	NT	NT	0.29	11.8	10.9
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	NT	NT	<0.00557	<0.119	<0.114
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	NT	NT	<0.000491	<0.0105	<0.0101
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	NT	NT	<0.00158	<0.0338	<0.0325
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00186	<0.0396	<0.0381
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	NT	NT	<0.00215	<0.0459	<0.0441
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	NT	NT	<0.000893	<0.019	<0.0183
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	NT	NT	<0.000628	<0.0134	<0.0129
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	NT	NT	<0.000519	<0.0111	<0.0106
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	NT	NT	<0.000546	<0.0116	<0.0112
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	NT	NT	<0.000753	<0.0161	<0.0154
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	NT	NT	<0.00156	<0.0333	<0.032
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	NT	NT	<0.00139	<0.0296	<0.0284
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00191	<0.0408	<0.0392
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000866	<0.0185	<0.0178
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000764	<0.0163	<0.0157
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00074	<0.0158	<0.0152
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00167	<0.0356	<0.0343
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000382	<0.00815	<0.00784
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	NT	NT	<0.000579	0.0342 J	<0.0119
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	NT	NT	<0.000573	<0.0122	<0.0118
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	<0.0139	<0.296	<0.284
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	NT	NT	0.0384 B	<0.291	<0.28
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	NT	NT	<0.0109	<0.233	<0.224
Methylene bromide	NL	800	NL	NL	NL	mg/kg	NT	NT	<0.00109	<0.0233	<0.0224
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	NT	NT	<0.00725	<0.155	<0.149
MTBE	0.1	NL	560	NL	0.1	mg/kg	NT	NT	<0.000322	<0.00687	<0.0066
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	<0.00341	<0.0727	<0.0699
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	NT	NT	<0.00129	0.0444 J	<0.0264
Styrene	NL	16000	NL	NL	2.2	mg/kg	NT	NT	<0.00298	<0.0636	<0.0611
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	NT	NT	<0.000546	<0.0116	<0.0112
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	NT	NT	<0.000426	<0.00908	<0.00873
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	NT	NT	<0.000764	<0.0163	<0.0157
Toluene	7	6400	NL	NL	4.5	mg/kg	NT	NT	0.00218 J	0.0537 J	0.037 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	NT	NT	<0.000737	<0.0157	<0.0151
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000683	<0.0146	<0.014
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	<0.00526	<0.112	<0.108
Trichloroethane, 1,1,1,-	2	160000	NL	NL	1.5	mg/kg	NT	NT	<0.0003	<0.0064	<0.00616
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	NT	NT	<0.000964	<0.0206	<0.0198
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	NT	NT	<0.000437	<0.00931	<0.00896
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	NT	NT	<0.000546	<0.0116	<0.0112
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	NT	NT	<0.00557	<0.119	<0.114
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	NT	NT	<0.00126	0.1060 J	0.0279 J
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	NT	NT	0.00654 B	0.548	0.349 B
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	NT	NT	<0.00118	0.0710 J	<0.0242
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	NT	NT	<0.000746	<0.0159	<0.0153
Xylenes	9	16000	NL	NL	14	mg/kg	NT	NT	<0.00522	0.128 J	<0.107

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17D		
Laboratory Identification							L1165628-18	L1165628-19	L1165628-20
Sample Date							11/13/2019	11/13/2019	11/13/2019
Depth Range							1 - 2 ft	2 - 3 ft	3 - 4 ft
Hydrocarbon (NWTPHGx and NWTPHDx)									
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	1.61 B J
Diesel range organics	2000	NL	NL	460	NL	mg/kg	<15	5.99	3.95 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	129	53.5	28.4
Metals (EPA Method 6010/7471)									
Arsenic	20	24	0.67	20	2.9	mg/kg	4.02	3.86	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT
SVOCs (EPA Method 8270c)									
Acenaphthene	NL	4800	NL	NL	98	mg/kg	<0.00723	<0.00748	<0.00718
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	<0.00755	<0.00782	<0.0075
Anthracene	NL	24000	NL	NL	2300	mg/kg	<0.00711	<0.00737	<0.00706
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.00482	<0.00499	<0.00478
Benzdine	NL	240	0.0043	NL	NL	mg/kg	<0.0717	<0.0742	<0.0712
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	<0.00617	<0.00639	<0.00613
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.00782	<0.0081	<0.00777
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	<0.00811	<0.0084	<0.00806
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.00655	<0.00678	<0.00651
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	<0.00867	<0.00897	<0.00861
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	<0.0101	<0.0104	<0.01
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	<0.00855	<0.00886	<0.00849
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	<0.0135	<0.014	<0.0134
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.0128	<0.0133	<0.0127
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	<0.0116	<0.012	<0.0115
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	<0.00537	<0.00556	<0.00533
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	<0.00719	<0.00745	<0.00714
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	<0.00935	<0.00969	<0.00929
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.00706	<0.00731	<0.00701
Chrysene	NL	NL	NL	NL	NL	mg/kg	<0.00625	<0.00647	<0.0062
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.00924	<0.00957	<0.00918
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	<0.0894	<0.0925	<0.0887
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	<0.0084	<0.00869	<0.00834
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	<0.00778	<0.00805	<0.00772
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	<0.053	<0.0549	<0.0526
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	<0.00608	<0.00629	<0.00604
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	<0.0123	<0.0127	<0.0122
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	<0.14	<0.145	<0.139
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	<0.11	<0.114	<0.11
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	<0.00683	<0.00707	<0.00678
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	<0.00829	<0.00859	<0.00824
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	<0.0102	<0.0106	<0.0101
Fluoranthene	NL	3200	NL	NL	630	mg/kg	<0.00558	<0.00578	<0.00554
Fluorene	NL	3200	NL	NL	100	mg/kg	<0.00768	<0.00795	<0.00762
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	<0.00963	<0.00998	<0.00957
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0113	<0.0117	<0.0112
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	<0.0661	<0.0684	<0.0656
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	<0.0151	<0.0156	<0.015
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	<0.00869	<0.009	<0.00863
Isophorone	NL	16000	1100	NL	0.23	mg/kg	<0.00587	<0.00608	<0.00583
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.01	<0.0104	<0.00994
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	<0.00782	<0.0081	<0.00777
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	<0.0146	<0.0152	<0.0145
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	<0.0591	<0.0612	<0.0587
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	<0.0728	<0.0754	<0.0723
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	<0.0102	<0.0106	<0.0101
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	<0.101	<0.105	<0.101
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	<0.054	<0.0559	<0.0537
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	<0.00594	<0.00615	<0.0059
Phenol	NL	24000	NL	NL	11	mg/kg	<0.00782	<0.0081	<0.00777
Pyrene	NL	2400	NL	NL	650	mg/kg	<0.0138	<0.0143	<0.0137
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00986	<0.0102	<0.00979
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	<0.00877	<0.00908	<0.00871
Other									
% Moisture	NL	NL	NL	NL	NL	%	88.9	85.8	89.5

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17E		SB17F			
Laboratory Identification							L1161924-04	L1167359-01	L1165628-16	L1167359-02	L1161924-07	L1161924-08
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							9 - 10 ft	14 - 15 ft	6 - 8 ft	10 - 11 ft	18 - 20 ft	24 - 25 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.982	<1	--	--	5.84	<0.897
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	--	3.39 B	26.2	--	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	13.8	11	NT	61	117	38.5
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	53.3	60.7	NT	213	211	81
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	4.3	5.89	NT	4.4	2.78	4.07
Barium	NL	16000	NL	1250	1600	mg/kg	114	125	NT	131	75.2	78.7
Cadmium	2	8	NL	25	0.69	mg/kg	0.2840 J	0.3500 J	NT	0.5410 J	0.244 J	0.1750 J
Lead	250	NL	NL	220	3000	mg/kg	15.8	21.7	NT	48	8.01	9.13
Mercury	2	NL	NL	9	2.1	mg/kg	0.0618	0.054	NT	0.0628	0.02400 B J	0.02240 B J
Selenium	NL	400	NL	0.8	5.2	mg/kg	0.735 J	0.255 J	NT	0.321 J	<0.682	<0.648
Silver	NL	400	NL	NL	14	mg/kg	0.288 B J	0.241 B J	NT	0.332 B J	0.271 B J	<0.126
Total Chromium	NL	NL	NL	42	NL	mg/kg	32.3	40.9	NT	38.1	92.4	98.1
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	<0.669
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	98.1
Other												
% Moisture	NL	NL	NL	NL	NL	%	86.3	84.6	83.5	83	91	95.6
SVOCs (EPA Method 8270)												
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	<0.154	NT	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.161	NT	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	<0.151	NT	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.103	NT	NT	NT
Benzdine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	<1.53	NT	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	<0.131	NT	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.166	NT	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.173	NT	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.139	NT	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.184	NT	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	<0.215	NT	NT	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.182	NT	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	<0.287	NT	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.273	NT	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	<0.247	NT	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	<0.114	NT	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	<0.153	NT	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	<0.199	NT	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.15	NT	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.133	NT	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.197	NT	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	<1.9	NT	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	<0.179	NT	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	<0.166	NT	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	<1.13	NT	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.129	NT	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	<0.261	NT	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	<2.97	NT	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	<2.35	NT	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	<0.145	NT	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	<0.177	NT	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	<0.217	NT	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	<0.119	NT	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	<0.163	NT	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	<0.205	NT	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	<0.24	NT	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	<1.41	NT	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	<0.321	NT	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.185	NT	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	<0.125	NT	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	<0.213	NT	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	<0.166	NT	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.311	NT	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<1.26	NT	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	<1.55	NT	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	<0.217	NT	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	<2.16	NT	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	<1.15	NT	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.126	NT	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	<0.166	NT	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	<0.295	NT	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	<0.21	NT	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	NT	<0.187	NT	NT	NT

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB17E		SB17F			
Laboratory Identification							L1161924-04	L1167359-01	L1165628-16	L1167359-02	L1161924-07	L1161924-08
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							9 - 10 ft	14 - 15 ft	6 - 8 ft	10 - 11 ft	18 - 20 ft	24 - 25 ft
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	0.0889	<0.0162	NT	<0.0165	<0.0151	0.0397
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.0022	<0.00225	NT	<0.00229	<0.00209	<0.00201
Benzene	0.03	320	18	NL	0.027	mg/kg	0.00184	0.001010 J	NT	0.00245	0.00047 J	0.000898 J
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00122	<0.00124	NT	<0.00127	<0.00115	<0.00111
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000913	<0.000932	NT	<0.00095	<0.000866	<0.000832
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00693	<0.00707	NT	<0.00721	<0.00657	<0.00632
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00429	<0.00437	NT	<0.00446	<0.00407	<0.00391
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00445	<0.00454	NT	<0.00463	<0.00422	<0.00406
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00293	<0.00299	NT	0.01350 J	0.00359 J	<0.00267
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.0018	<0.00183	NT	<0.00187	<0.0017	<0.00164
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00125	<0.00128	NT	<0.0013	<0.00119	<0.00114
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000664	<0.000677	NT	<0.000691	<0.00063	<0.000605
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00125	<0.00128	NT	<0.0013	<0.00119	<0.00114
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000481	<0.000491	NT	<0.0005	<0.000456	<0.000438
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00161	<0.00164	NT	<0.00168	<0.00153	<0.00147
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00107	<0.00109	NT	<0.00111	<0.00101	<0.000972
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00131	<0.00134	NT	<0.00136	<0.00124	<0.00119
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000999	<0.00102	NT	<0.00104	<0.000949	<0.000912
Cymene	NL	NL	NL	NL	NL	mg/kg	0.0148	0.0712	NT	0.704	0.401	0.0622
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00591	<0.00603	NT	<0.00615	<0.00561	<0.00539
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000521	<0.000532	NT	<0.000542	<0.000495	<0.000475
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00168	<0.00171	NT	<0.00175	<0.00159	<0.00153
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00197	<0.00201	NT	<0.00205	<0.00187	<0.0018
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00228	<0.00233	NT	<0.00237	<0.00217	<0.00208
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000947	<0.000967	NT	<9.860001E-	<0.000899	<0.000864
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000666	<0.00068	NT	<0.000693	<0.000632	<0.000607
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.00055	<0.000562	NT	<0.000573	<0.000522	<0.000502
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000579	<0.000591	NT	<0.000603	<0.00055	<0.000528
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000799	<0.000816	NT	<0.000832	<0.000759	<0.000729
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00166	<0.00169	NT	<0.00172	<0.00157	<0.00151
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00147	<0.0015	NT	<0.00153	<0.0014	<0.00134
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00203	<0.00207	NT	<0.00211	<0.00192	<0.00185
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000918	<0.000938	NT	<0.000956	<0.000872	<0.000838
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000811	<0.000828	NT	<0.000844	<0.00077	<0.000739
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000785	<0.000802	NT	<0.000817	<0.000745	<0.000716
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00177	<0.00181	NT	<0.00184	<0.00168	<0.00162
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000405	<0.000414	NT	<0.000422	<0.000385	<0.00037
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	0.001520 J	<0.000627	NT	0.002190 J	<0.000583	<0.00056
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000608	<0.000621	NT	<0.000633	<0.000577	<0.000555
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0147	<0.015	NT	<0.0153	<0.014	<0.0134
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0335 B	<0.0148	NT	<0.0151	<0.0137	<0.0132
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0116	<0.0118	NT	<0.0121	<0.011	<0.0106
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00116	<0.00118	NT	<0.00121	<0.0011	<0.00106
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00769	<0.00785	NT	<0.008	<0.0073	<0.00701
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000342	<0.000349	NT	<0.000356	<0.000324	<0.000312
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00361	<0.00369	NT	0.00376 J	<0.00343	<0.0033
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00137	<0.0014	NT	<0.00142	<0.0013	<0.00125
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00316	<0.00323	NT	<0.00329	<0.003	<0.00288
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000579	<0.000591	NT	<0.000603	<0.00055	<0.000528
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000452	<0.000461	NT	<0.00047	<0.000429	<0.000412
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000811	<0.000828	NT	<0.000844	<0.00077	<0.000739
Toluene	7	6400	NL	NL	4.5	mg/kg	0.0149	0.00545 J	NT	0.0155	0.00354 J	0.00689
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000782	<0.000798	NT	<0.000814	<0.000742	<0.000713
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000724	<0.000739	NT	<0.000753	<0.000687	<0.00066
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00558	<0.0057	NT	<0.00581	<0.0053	<0.00509
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000318	<0.000325	NT	<0.000331	<0.000302	<0.000291
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.00102	<0.00104	NT	<0.00106	<0.000971	<0.000933
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000463	<0.000473	NT	<0.000482	<0.00044	<0.000423
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000579	<0.000591	NT	<0.000603	<0.00055	<0.000528
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00591	<0.00603	NT	<0.00615	<0.00561	<0.00539
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	0.00164 J	<0.00136	NT	0.00388 J	<0.00126	<0.00121
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	<0.00134	<0.00137	NT	0.013	0.00716	0.00185 J
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00125	<0.00128	NT	0.0013 J	<0.00119	<0.00114
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000791	<0.000808	NT	<0.000823	<0.000751	<0.000722
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00554	<0.00565	NT	<0.00576	<0.00525	<0.00505

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB18			SB19		
Laboratory Identification							L1161924-09	L1161924-10	L1161924-11	L1161924-12	L1161924-13	L1161924-14 L1166082-01
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	2 - 3 ft	4 - 6 ft	0 - 1 ft	2 - 3 ft	4 - 6 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.938	<0.925	<0.985	<0.932	<0.953	<1
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	--	--	--	--	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	<73.6	<72.6	<77.3	42.3 J	35 J	110
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	534 J	878	585	340	338	1000
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	2.63	5.84	3.38	2.100 J	2.000 J	5.83
Barium	NL	16000	NL	1250	1600	mg/kg	67.9	101	110	61.9	62	90.4
Cadmium	2	8	NL	25	0.69	mg/kg	0.1890 J	0.2040 J	0.2780 J	0.275 J	0.1590 J	0.2190 J
Lead	250	NL	NL	220	3000	mg/kg	13.3	6.56	65.9	12.1	6.87	18.9
Mercury	2	NL	NL	9	2.1	mg/kg	0.0209 B J	0.02620 B J	0.04350 B	0.03240 B J	0.02680 B J	0.0519
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.686	<0.677	<0.721	<0.682	<0.697	<0.225
Silver	NL	400	NL	NL	14	mg/kg	0.223 B J	0.275 B J	0.30 B J	0.256 B J	0.254 B J	<0.142
Total Chromium	NL	NL	NL	42	NL	mg/kg	25.2	29.5	30.1	32.8	30.1	33.6
Other												
% Moisture	NL	NL	NL	NL	NL	%	90.4	91.6	86	90.9	88.9	84.5
SVOCs (EPA Method 8270)												
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	<0.0742	<0.137	NT	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0776	<0.144	NT	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	<0.0731	<0.135	NT	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0495	<0.0916	NT	NT	NT
Benzidine	NL	240	0.0043	NL	NL	mg/kg	NT	<0.737	<1.36	NT	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	<0.0634	<0.117	NT	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0804	<0.149	NT	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0834	<0.154	NT	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0673	<0.125	NT	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	<0.089	<0.165	NT	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	<0.104	<0.192	NT	NT	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	NT	<0.0879	<0.163	NT	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	<0.139	<0.257	NT	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	<0.132	<0.244	NT	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	<0.119	<0.221	NT	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	<0.0552	<0.102	NT	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	<0.0739	<0.137	NT	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	<0.0961	<0.178	NT	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	<0.0725	<0.134	NT	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0642	<0.119	NT	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0949	<0.176	NT	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	<0.918	<1.7	NT	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	<0.0863	<0.16	NT	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	<0.0799	<0.148	NT	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	<0.545	<1.01	NT	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	<0.0624	<0.116	NT	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	<0.126	<0.233	NT	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	<1.43	<2.65	NT	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	<1.13	<2.1	NT	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	<0.0702	<0.13	NT	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	<0.0852	<0.158	NT	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	<0.105	<0.194	NT	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	<0.0574	<0.106	NT	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	<0.0789	<0.146	NT	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	<0.099	<0.183	NT	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	<0.116	<0.214	NT	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	<0.679	<1.26	NT	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	<0.155	<0.287	NT	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0893	<0.165	NT	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	<0.0604	<0.112	NT	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	<0.103	<0.19	NT	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	<0.0804	<0.149	NT	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	<0.15	<0.278	NT	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	<0.607	<1.12	NT	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	<0.748	<1.39	NT	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	<0.105	<0.194	NT	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	<1.04	<1.93	NT	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	<0.555	<1.03	NT	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	<0.0611	<0.113	NT	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	NT	<0.0804	<0.149	NT	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	<0.142	<0.263	NT	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	<0.101	<0.188	NT	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	<0.0901	<0.167	NT	NT	NT

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Future Federal Way Hospital
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TGE Project No.: R13411.07

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Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	2 - 3 ft	4 - 6 ft	0 - 1 ft	2 - 3 ft	4 - 6 ft
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0152	<0.015	<0.0159	<0.0151	<0.0154	<0.0162
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.0021	<0.00207	<0.00221	<0.00209	<0.00214	<0.00225
Benzene	0.03	320	18	NL	0.027	mg/kg	0.001100 J	0.000503 J	0.000941 J	0.00076 J	0.00055 J	0.000987 J
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00116	<0.00115	<0.00122	<0.00115	<0.00118	<0.00124
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000872	<0.00086	<0.000916	<0.000867	<0.000886	<0.000933
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00662	<0.00653	<0.00695	<0.00658	<0.00672	<0.00708
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00409	<0.00404	<0.0043	<0.00407	<0.00416	<0.00438
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00425	<0.00419	<0.00446	<0.00422	<0.00432	<0.00454
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.0028	<0.00276	<0.00294	<0.00278	<0.00284	<0.00299
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00171	<0.00169	<0.0018	<0.0017	<0.00174	<0.00183
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00119	<0.00118	<0.00126	<0.00119	<0.00121	<0.00128
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000634	<0.000626	<0.000666	<0.00063	<0.000644	<0.000678
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00119	<0.00118	<0.00126	<0.00119	<0.00121	<0.00128
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000459	0.000794 J	0.000581 J	0.001010 J	0.000637 J	0.000672 J
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00154	<0.00152	<0.00162	<0.00153	<0.00156	<0.00165
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00102	<0.001	<0.00107	<0.00101	<0.00103	<0.00109
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00125	<0.00123	<0.00131	<0.00124	<0.00127	<0.00134
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000955	<0.000942	<0.001	<0.000949	<0.00097	<0.00102
Cymene	NL	NL	NL	NL	NL	mg/kg	0.00275 J	<0.00254	<0.00271	<0.00256	<0.00262	<0.00276
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00564	<0.00557	<0.00593	<0.00561	<0.00573	<0.00604
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000498	<0.000491	<0.000523	<0.000495	<0.000506	<0.000533
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.0016	<0.00158	<0.00169	<0.00159	<0.00163	<0.00172
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00188	<0.00186	<0.00198	<0.00187	<0.00191	<0.00201
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00218	<0.00215	<0.00229	<0.00217	<0.00221	<0.00233
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000905	<0.000893	<0.000951	<0.0009	<0.00092	<0.000968
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000636	<0.000628	<0.000669	<0.000632	<0.000646	<0.000681
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000526	<0.000519	<0.000552	<0.000522	<0.000534	<0.000562
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000553	<0.000546	<0.000581	<0.00055	<0.000562	<0.000592
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000763	<0.000753	<0.000802	<0.000759	<0.000776	<0.000817
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00158	<0.00156	<0.00166	<0.00157	<0.00161	<0.00169
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00141	<0.00139	<0.00148	<0.0014	<0.00143	<0.0015
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00194	<0.00191	<0.00203	<0.00192	<0.00197	<0.00207
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000877	<0.000866	<0.000922	<0.000872	<0.000892	<0.000939
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000774	<0.000764	<0.000814	<0.00077	<0.000787	<0.000828
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00075	<0.00074	<0.000788	<0.000746	<0.000762	<0.000802
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00169	<0.00167	<0.00178	<0.00168	<0.00172	<0.00181
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000387	<0.000382	<0.000407	<0.000385	<0.000394	<0.000414
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000586	<0.000579	<0.000616	<0.000583	<0.000596	<0.000627
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000581	<0.000573	<0.00061	<0.000577	<0.00059	<0.000621
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0141	<0.0139	<0.0148	<0.014	<0.0143	<0.015
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0283 B	0.0249 B J	0.0220 B J	0.0546 B	0.0223 B J	0.0219 B J
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0111	<0.0109	<0.0116	<0.011	<0.0112	<0.0118
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00111	<0.00109	<0.00116	<0.0011	<0.00112	<0.00118
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00735	<0.00725	<0.00772	<0.0073	<0.00747	<0.00786
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000326	<0.000322	<0.000343	<0.000324	<0.000332	<0.000349
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00345	<0.00341	<0.00363	0.00495 J	0.00433 J	<0.00369
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00131	<0.00129	<0.00137	<0.0013	<0.00133	<0.0014
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00302	<0.00298	<0.00317	<0.003	<0.00307	<0.00323
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000553	<0.000546	<0.000581	<0.00055	<0.000562	<0.000592
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000432	<0.000426	<0.000453	<0.000429	<0.000438	<0.000462
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000774	<0.000764	<0.000814	<0.00077	<0.000787	<0.000828
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00295 J	0.00210 J	0.00309 J	0.00310 J	0.00227 J	0.00227 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000747	<0.000737	<0.000785	<0.000742	<0.000759	<0.000799
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000692	<0.000682	<0.000727	<0.000687	<0.000703	<0.00074
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00533	<0.00526	<0.0056	<0.0053	<0.00542	<0.0057
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000304	<0.0003	<0.00032	<0.000302	<0.000309	<0.000325
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.000977	<0.000964	<0.00103	<0.000971	<0.000993	<0.00105
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000443	<0.000437	<0.000465	<0.00044	<0.00045	<0.000473
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000553	<0.000546	<0.000581	<0.00055	<0.000562	<0.000592
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00564	<0.00557	<0.00593	<0.00561	<0.00573	<0.00604
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00127	<0.00126	<0.00134	<0.00126	<0.00129	<0.00136
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	<0.00128	<0.00127	<0.00135	<0.00128	<0.0013	<0.00137
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00119	<0.00118	<0.00126	<0.00119	<0.00121	<0.00128
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000756	<0.000746	<0.000794	<0.000751	<0.000768	<0.000808
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00529	<0.00522	<0.00556	<0.00526	<0.00537	<0.00566

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB20				
Laboratory Identification							L1168403-29	L1168403-30	L1161924-15 L1165576-05	L1161924-16 L1165576-06	L1161924-17
Sample Date							11/13/2019	11/13/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	4 - 6 ft	10 - 11 ft
Hydrocarbon (NWTPHGx and NWTPHDx)											
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	116	--	21.2
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	NT	NT	--	78.4	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	908 T8	962 T8	687	243	369
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	393 T8	238 T8	182	83.8	1010
Metals (EPA Method 6010/7471)											
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	3.62	4.89	7.52
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	86.9	101	85.6
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	0.1580 J	0.2170 J	0.2800 J
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	5.07	17.8	25.9
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	0.0378 B	0.03960 B	0.04830 B
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	<0.687	<0.695	<0.705
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	<0.133	<0.135	<0.136
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	28	32.7	30.5
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT
SVOCs (EPA Method 8270c)											
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	<0.0142	<0.072	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0149	<0.0753	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	<0.014	<0.0709	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00949	<0.048	NT
Benzdine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	<0.141	<0.714	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	<0.0122	<0.0615	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0154	<0.0779	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.016	<0.0809	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0129	<0.0653	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0171	<0.0864	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	<0.0199	<0.1	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0169	<0.0852	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	<0.0266	<0.135	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0253	<0.128	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	<0.0228	<0.116	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	<0.0106	<0.0535	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	<0.0142	<0.0717	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	<0.0184	<0.0932	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0139	<0.0703	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0123	<0.0622	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0182	<0.0921	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	<0.176	<0.89	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	<0.0165	<0.0837	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	<0.0153	<0.0775	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	<0.104	<0.528	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.012	<0.0606	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	<0.0242	<0.122	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	<0.275	<1.39	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	<0.217	<1.1	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	<0.0135	<0.0681	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	<0.0163	<0.0827	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	<0.0201	<0.102	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	0.0123 J	<0.0556	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	0.215	0.098 J	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	<0.019	<0.096	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	<0.0222	<0.112	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	<0.13	<0.658	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	<0.0297	<0.15	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0171	<0.0866	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	<0.0116	<0.0585	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	0.186	0.173 J	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	<0.0154	<0.0779	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0288	<0.146	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.116	<0.589	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	<0.143	<0.726	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	<0.0201	<0.102	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	<0.2	<1.01	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	<0.106	<0.538	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	0.371	0.154 J	NT
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	<0.0154	<0.0779	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	<0.0273	<0.138	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	<0.0194	<0.0982	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	NT	<0.0173	<0.0874	NT
Other											
% Moisture	NL	NL	NL	NL	NL	%	90.7	88.5	90.2	89.2	88

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB20				
Laboratory Identification							L1168403-29	L1168403-30	L1161924-15 L1165576-05	L1161924-16 L1165576-06	L1161924-17
Sample Date							11/13/2019	11/13/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	4 - 6 ft	10 - 11 ft
VOAs (EPA Method 8260)											
Acetone	NL	72000	NL	NL	29	mg/kg	NT	NT	<0.0166	<0.0189	<0.0156
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	NT	NT	<0.0023	<0.00262	<0.00216
Benzene	0.03	320	18	NL	0.027	mg/kg	NT	NT	0.000574 J	0.00214	0.000886 J
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	NT	NT	<0.00127	<0.00145	<0.00119
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	NT	NT	<0.000952	<0.00109	<0.000895
Bromoform	NL	1600	130	NL	0.36	mg/kg	NT	NT	<0.00723	<0.00825	<0.0068
Bromomethane	NL	110	NL	NL	0.05	mg/kg	NT	NT	<0.00447	<0.0051	<0.0042
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	NT	NT	0.308	0.296	0.0817
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	NT	NT	0.123	0.105	0.0395
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	NT	NT	0.00345 J	<0.00214	<0.00176
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	NT	NT	<0.00131	<0.00149	<0.00123
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	NT	NT	<0.000693	<0.00079	<0.000651
Chloroethane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00131	<0.00149	<0.00123
Chloroform	NL	800	32	NL	0.074	mg/kg	NT	NT	<0.000502	<0.000572	<0.000472
Chloromethane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00168	<0.00192	<0.00158
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	NT	NT	<0.00111	<0.00127	<0.00105
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00137	<0.00156	<0.00128
Cumene	NL	8000	NL	NL	NL	mg/kg	NT	NT	0.015	0.0145	0.0062
Cymene	NL	NL	NL	NL	NL	mg/kg	NT	NT	0.142	0.135	0.0462
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	NT	NT	<0.00616	<0.00704	<0.0058
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	NT	NT	<0.000544	<0.000621	<0.000511
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	NT	NT	<0.00175	<0.002	<0.00165
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00205	<0.00235	<0.00193
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	NT	NT	<0.00238	<0.00272	<0.00224
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	NT	NT	<0.000989	<0.00113	<0.00093
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	NT	NT	<0.000695	<0.000793	<0.000653
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	NT	NT	<0.000574	<0.000655	<0.00054
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	NT	NT	<0.000604	<0.00069	<0.000568
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	NT	NT	<0.000834	<0.000952	<0.000784
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	NT	NT	<0.00173	<0.00197	<0.00162
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	NT	NT	<0.00153	<0.00175	<0.00144
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00212	<0.00241	<0.00199
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000958	<0.00109	<0.000901
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000846	<0.000966	<0.000795
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000819	<0.000935	<0.00077
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.00185	<0.00211	<0.00174
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000423	<0.000483	<0.000398
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	NT	NT	0.00587	0.00934	0.00534
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	NT	NT	<0.000635	<0.000724	<0.000597
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	<0.0153	<0.0175	<0.0144
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	NT	NT	0.0386 B	0.0458 B	0.0285 B
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	NT	NT	<0.0121	<0.0138	<0.0114
Methylene bromide	NL	800	NL	NL	NL	mg/kg	NT	NT	<0.00121	<0.00138	<0.00114
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	NT	NT	<0.00803	<0.00916	<0.00755
MTBE	0.1	NL	560	NL	0.1	mg/kg	NT	NT	<0.000357	<0.000407	<0.000335
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	0.448	0.643	0.255
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	NT	NT	0.0526	0.0551	0.0219
Styrene	NL	16000	NL	NL	2.2	mg/kg	NT	NT	<0.0033	<0.00377	<0.0031
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	NT	NT	<0.000604	<0.00069	<0.000568
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	NT	NT	<0.000471	<0.000538	<0.000443
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	NT	NT	<0.000846	<0.000966	<0.000795
Toluene	7	6400	NL	NL	4.5	mg/kg	NT	NT	0.00217 J	0.00449 J	0.00191 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	NT	NT	<0.000816	<0.000931	<0.000767
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.000755	<0.000862	<0.00071
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	<0.00583	<0.00665	<0.00548
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	NT	NT	<0.000332	<0.000379	<0.000312
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	NT	NT	<0.00107	<0.00122	<0.001
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	NT	NT	<0.000483	<0.000552	<0.000455
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	NT	NT	<0.000604	<0.00069	<0.000568
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	NT	NT	<0.00616	<0.00704	<0.0058
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	NT	NT	0.612	0.58	0.227
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	NT	NT	0.701	0.695	0.276
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	NT	NT	0.425	0.387	0.153
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	NT	NT	<0.000825	<0.000942	<0.000776
Xylenes	9	16000	NL	NL	14	mg/kg	NT	NT	0.0202	0.0478	0.0194

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB21			
Laboratory Identification							L1161924-18 L1165576-07	L1165628-23 L1161924-19	L1161924-19	L1161924-20 L1166082-02
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							2 - 3 ft	4 - 6 ft	6 - 8 ft	9 - 11 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	8.83 B	--	--	--
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	8.97 B	4.34	6.44
Diesel range organics	2000	NL	NL	460	NL	mg/kg	310	292	151	102
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	632	432	429	279
Metals (EPA Method 6010/7471)										
Arsenic	20	24	0.67	20	2.9	mg/kg	6.23	NT	7.28	8.42
Barium	NL	16000	NL	1250	1600	mg/kg	84.4	NT	95.7	125
Cadmium	2	8	NL	25	0.69	mg/kg	0.2030 J	NT	0.287 J	0.3070 J
Lead	250	NL	NL	220	3000	mg/kg	684	NT	256	105
Mercury	2	NL	NL	9	2.1	mg/kg	0.03710 B	NT	0.0645	0.169
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.726	NT	<0.727	<0.257
Silver	NL	400	NL	NL	14	mg/kg	<0.14	NT	<0.141	<0.162
Total Chromium	NL	NL	NL	42	NL	mg/kg	182	NT	77.1	48.9
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	16.5	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	166	NT	NT	NT
SVOCs (EPA Method 8270c)										
Acenaphthene	NL	4800	NL	NL	98	mg/kg	<0.0751	<0.0702	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	<0.0785	<0.0734	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	<0.074	<0.0691	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.0501	<0.0468	NT	NT
Benzidine	NL	240	0.0043	NL	NL	mg/kg	<0.746	<0.696	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	<0.0641	<0.0599	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0814	<0.076	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	<0.0844	<0.0788	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0681	<0.0636	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	<0.0901	<0.0842	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	<0.105	<0.098	NT	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	<0.089	<0.0831	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	<0.14	<0.131	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.133	<0.125	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	<0.121	<0.113	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	<0.0558	<0.0522	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	<0.0748	<0.0699	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	<0.0973	<0.0909	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.0734	<0.0686	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	<0.065	<0.0607	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.0961	<0.0898	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	<0.929	<0.868	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	<0.0873	<0.0816	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	<0.0809	<0.0756	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	<0.551	<0.515	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	<0.0632	<0.059	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	<0.128	<0.119	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	<1.45	<1.36	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	<1.15	<1.07	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	<0.0711	<0.0664	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	<0.0863	<0.0806	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	<0.106	<0.0992	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	<0.0581	<0.0542	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	<0.0798	<0.0746	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	<0.1	<0.0936	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.117	<0.109	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	<0.687	<0.642	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	<0.157	<0.147	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	<0.0904	<0.0844	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	<0.0611	<0.0571	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.104	<0.0972	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	<0.0814	<0.076	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	<0.152	<0.142	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	<0.615	<0.574	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	<0.757	<0.707	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	<0.106	<0.0991	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	<1.05	<0.984	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	<0.562	<0.525	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	<0.0618	<0.0577	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	<0.0814	<0.076	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	<0.144	<0.134	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.103	<0.0958	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	<0.0912	<0.0852	NT	NT
Other										
% Moisture	NL	NL	NL	NL	NL	%	85.4	91.5	85.3	74

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB21			
Laboratory Identification							L1161924-18 L1165576-07	L1165628-23 L1161924-19	L1161924-19	L1161924-20 L1166082-02
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							2 - 3 ft	4 - 6 ft	6 - 8 ft	9 - 11 ft
VOAs (EPA Method 8260)										
Acetone	NL	72000	NL	NL	29	mg/kg	<0.016	NT	0.158	0.145
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00222	NT	<0.00223	<0.00257
Benzene	0.03	320	18	NL	0.027	mg/kg	0.001120 J	NT	0.00338	0.00262
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00123	NT	<0.00123	<0.00142
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000922	NT	<0.000924	<0.00107
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.007	NT	<0.00701	<0.00809
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00433	NT	<0.00434	<0.005
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	0.00564 J	NT	<0.0045	<0.00519
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00296	NT	<0.00297	<0.00342
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00181	NT	<0.00182	<0.0021
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00126	NT	<0.00127	<0.00146
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000671	NT	<0.000672	<0.000775
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00126	NT	<0.00127	<0.00146
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000486	NT	<0.000486	<0.000561
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00163	NT	<0.00163	<0.00188
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00108	NT	<0.00108	<0.00124
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00132	NT	<0.00132	<0.00153
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.00101	NT	0.00209 J	<0.00117
Cymene	NL	NL	NL	NL	NL	mg/kg	0.00826	NT	0.0318	0.172
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00597	NT	<0.00598	<0.0069
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000527	NT	<0.000527	<0.000608
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.0017	NT	<0.0017	<0.00196
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00199	NT	<0.00199	<0.0023
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00231	NT	<0.00231	<0.00266
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000957	NT	<0.000959	<0.00111
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000673	NT	<0.000674	<0.000778
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000556	NT	<0.000557	<0.000642
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000585	NT	<0.000586	<0.000676
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000808	NT	<0.000809	<0.000933
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00167	NT	<0.00168	<0.00193
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00149	NT	<0.00149	<0.00172
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00205	NT	<0.00205	<0.00237
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000928	NT	<0.000929	<0.00107
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000819	NT	<0.00082	<0.000947
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000794	NT	<0.000795	<0.000917
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00179	NT	<0.00179	<0.00207
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.00041	NT	<0.00041	<0.000473
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	0.165	NT	0.0662	0.0208
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000615	NT	<0.000615	<0.00071
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0149	NT	<0.0149	<0.0172
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0494 B	NT	0.0505 B	0.0788 B
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	0.0167 J	NT	<0.0117	<0.0135
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00117	NT	<0.00117	<0.00135
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00777	NT	<0.00778	<0.00898
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000345	NT	<0.000346	<0.000399
Naphthalene	5	1600	NL	NL	4.5	mg/kg	0.0289	NT	0.01410 J	0.00784 J
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	0.00506 J	NT	0.00227 J	0.0032 J
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.0032	NT	<0.0032	<0.00369
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000585	NT	<0.000586	<0.000676
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	0.0236	NT	<0.000457	<0.000527
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000819	NT	<0.00082	<0.000947
Toluene	7	6400	NL	NL	4.5	mg/kg	0.022	NT	0.0307	0.0247
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.00079	NT	<0.000791	<0.000913
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000732	NT	<0.000733	<0.000845
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	0.00740 J	NT	<0.00565	<0.00652
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000322	NT	<0.000322	<0.000372
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.00103	NT	<0.00103	<0.00119
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000468	NT	<0.000469	<0.000541
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000585	NT	<0.000586	<0.000676
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00597	NT	<0.00598	<0.0069
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	0.0171	NT	0.0109	0.00886
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	0.0178	NT	0.0076	0.00396 J
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	0.0212	NT	0.00847	0.00285 J
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000799	NT	<0.000801	<0.000924
Xylenes	9	16000	NL	NL	14	mg/kg	0.344	NT	0.144	0.0473

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non- Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB22			
Laboratory Identification							L1161924-21	L1168403-31	L1161924-22	L1161924-23
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	4 - 6 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	1.38 J	NT	3.990 B	1.690 B J
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	NT	--	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	47.1 J	39.7 J T8	30.6 J	49.1 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	558	230 T8	252	470
Metals (EPA Method 6010/7471)										
Arsenic	20	24	0.67	20	2.9	mg/kg	12.3	NT	6.4	8.93
Barium	NL	16000	NL	1250	1600	mg/kg	70.8	NT	81.8	78.1
Cadmium	2	8	NL	25	0.69	mg/kg	0.2200 J	NT	0.1880 J	0.2060 J
Lead	250	NL	NL	220	3000	mg/kg	54.7	NT	20.9	25.5
Mercury	2	NL	NL	9	2.1	mg/kg	0.0346	NT	0.02990 J	0.02830 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.703	NT	<0.674	<0.668
Silver	NL	400	NL	NL	14	mg/kg	<0.136	NT	<0.131	<0.129
Total Chromium	NL	NL	NL	42	NL	mg/kg	31.2	NT	34.1	36.3
Other										
% Moisture	NL	NL	NL	NL	NL	%	88.2	92.1	92	92.8
SVOCs (EPA Method 8270)										
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	<0.0684	<0.0689
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0715	<0.0721
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	<0.0673	<0.0679
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0456	<0.046
Benzdine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	<0.678	<0.684
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	<0.0584	<0.0589
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.074	<0.0746
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0768	<0.0774
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.062	<0.0625
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.082	<0.0827
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	<0.0954	<0.0962
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0809	<0.0816
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	<0.128	<0.129
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.121	<0.122
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	<0.11	<0.111
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	<0.0508	<0.0512
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	<0.0681	<0.0686
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	<0.0885	<0.0892
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0668	<0.0673
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0591	<0.0596
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0874	<0.0882
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	<0.846	<0.853
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	<0.0795	<0.0801
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	<0.0736	<0.0742
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	<0.502	<0.506
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0575	<0.058
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	<0.116	<0.117
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	<1.32	<1.33
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	<1.04	<1.05
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	<0.0647	<0.0652
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	<0.0785	<0.0792
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	<0.0966	<0.0974
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	<0.0528	<0.0533
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	<0.0726	<0.0732
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	<0.0912	<0.0919
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	<0.107	<0.107
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	<0.625	<0.63
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	<0.143	<0.144
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0822	<0.0829
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	<0.0556	<0.0561
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	<0.0947	<0.0955
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	<0.074	<0.0746
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.138	<0.14
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.559	<0.564
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	<0.689	<0.695
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	<0.0965	<0.0973
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	<0.959	<0.967
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	<0.511	<0.516
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	<0.0562	<0.0567
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	<0.074	<0.0746
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	<0.131	<0.132
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	<0.0933	<0.0941
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	NT	<0.083	<0.0837

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non- Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB22			
Laboratory Identification							L1161924-21	L1168403-31	L1161924-22	L1161924-23
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	4 - 6 ft
VOAs (EPA Method 8260)										
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0155	NT	<0.0149	<0.0148
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00215	NT	<0.00207	<0.00205
Benzene	0.03	320	18	NL	0.027	mg/kg	0.000949 J	NT	0.000445 J	0.000624 J
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00119	NT	<0.00114	<0.00113
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000893	NT	<0.000857	<0.000849
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00678	NT	<0.0065	<0.00644
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00419	NT	<0.00402	<0.00399
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00435	NT	<0.00418	<0.00414
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00287	NT	<0.00275	<0.00273
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00176	NT	<0.00169	<0.00167
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00122	NT	<0.00117	<0.00116
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000649	NT	<0.000623	<0.000617
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00122	NT	<0.00117	<0.00116
Chloroform	NL	800	32	NL	0.074	mg/kg	0.00071 B J	NT	<0.000451	<0.000447
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00158	NT	<0.00151	<0.0015
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00104	NT	<0.001	<0.000991
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00128	NT	<0.00123	<0.00122
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000978	NT	<0.000939	<0.00093
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00264	NT	<0.00253	0.00444 J
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00578	NT	<0.00555	<0.0055
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.00051	NT	<0.000489	<0.000485
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00164	NT	<0.00158	<0.00156
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00193	NT	<0.00185	<0.00183
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00223	NT	<0.00214	<0.00212
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000927	NT	<0.00089	<0.000881
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000652	NT	<0.000625	<0.00062
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000538	NT	<0.000517	<0.000512
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000567	NT	<0.000544	<0.000539
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000782	NT	<0.00075	<0.000743
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00162	NT	<0.00156	<0.00154
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00144	NT	<0.00138	<0.00137
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00198	NT	<0.0019	<0.00189
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000899	NT	<0.000862	<0.000854
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000793	NT	<0.000761	<0.000754
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000768	NT	<0.000737	<0.000731
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00173	NT	<0.00166	<0.00165
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000397	NT	<0.000381	<0.000377
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	0.000606 J	NT	<0.000576	<0.000571
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000595	NT	<0.000571	<0.000566
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0144	NT	<0.0138	<0.0137
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0173 B J	NT	0.0165 B J	0.0233 B J
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0113	NT	<0.0109	<0.0108
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00113	NT	<0.00109	<0.00108
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00752	NT	<0.00722	<0.00715
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000334	NT	<0.000321	<0.000318
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00354	NT	<0.00339	<0.00336
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00134	NT	<0.00128	<0.00127
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00309	NT	<0.00297	<0.00294
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000567	NT	<0.000544	<0.000539
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000442	NT	<0.000424	<0.00042
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000793	NT	<0.000761	<0.000754
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00424 J	NT	0.00140 J	0.00151 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000765	NT	<0.000734	<0.000727
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000708	NT	<0.00068	<0.000673
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00546	NT	<0.00524	<0.00519
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000312	NT	<0.000299	<0.000296
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.001	NT	<0.00096	<0.000951
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000453	NT	<0.000435	<0.000431
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000567	NT	<0.000544	<0.000539
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00578	NT	<0.00555	<0.0055
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.0013	NT	<0.00125	<0.00124
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	<0.00131	NT	<0.00126	<0.00125
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00122	NT	<0.00117	<0.00116
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000774	NT	<0.000743	<0.000736
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00542	NT	<0.0052	<0.00515

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB23					
Laboratory Identification							L1161924-24	L1161924-25	L1161924-26	L1165628-26	L1165628-27	L1165628-28
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	3 - 4 ft	4 - 6 ft	6 - 8 ft	9 - 11 ft	12 - 14 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	--	1.420 B J	1.210 B J	NT	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	1.27 B J	--	--	NT	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	123	49.4	108	4.72	28.1 J	21.1
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1450	483	1270	52.8	455	76.7
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	8.37	5.11	5.51	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	77.7	80.7	75.8	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.236 J	0.1460 J	0.2240 J	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	162	10.3	27.5	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	0.02340 J	0.02660 J	0.0441	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.673	<0.691	<0.681	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	<0.13	<0.134	<0.132	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	56.4	30.7	24.7	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	92.1	89.7	91	93.5	91	90
SVOCs (EPA Method 8270)												
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	NT	NT	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	NT	NT	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Benzidine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	NT	NT	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	NT	NT	NT	NT
Bis (2-chloroisopropyl) ether	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	NT	NT	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	NT	NT	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	NT	NT	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	NT	NT	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	NT	NT	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	NT	NT	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	NT	NT	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	NT	NT	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	NT	NT	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	NT	NT	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	NT	NT	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	NT	NT	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	NT	NT	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	NT	NT	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	NT	NT	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	NT	NT	NT	NT	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	NT	NT	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	NT	NT	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	NT	NT	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	NT	NT	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	NT	NT	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	NT	NT	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	NT	NT	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	NT	NT	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	NT	NT	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	NT	NT	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	NT	NT	NT	NT	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	NT	NT	NT	NT	NT

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB23					
Laboratory Identification							L1161924-24 11/14/2019	L1161924-25 11/14/2019	L1161924-26 11/14/2019	L1165628-26 11/14/2019	L1165628-27 11/14/2019	L1165628-28 11/14/2019
Sample Date												
Depth Range							0 - 1 ft	3 - 4 ft	4 - 6 ft	6 - 8 ft	9 - 11 ft	12 - 14 ft
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0149	0.0250 J	<0.015	NT	NT	NT
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00206	<0.00212	<0.00209	NT	NT	NT
Benzene	0.03	320	18	NL	0.027	mg/kg	0.00223	0.000713 J	0.00156	NT	NT	NT
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00114	<0.00117	<0.00115	NT	NT	NT
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000855	<0.000879	<0.000866	NT	NT	NT
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00649	<0.00667	<0.00657	NT	NT	NT
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00402	<0.00413	<0.00406	NT	NT	NT
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00417	<0.00428	<0.00422	NT	NT	NT
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00275	<0.00282	<0.00278	NT	NT	NT
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00168	<0.00173	<0.0017	NT	NT	NT
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00117	<0.0012	<0.00119	NT	NT	NT
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000622	<0.000639	<0.000629	NT	NT	NT
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00117	<0.0012	<0.00119	NT	NT	NT
Chloroform	NL	800	32	NL	0.074	mg/kg	0.00051 B J	<0.000463	<0.000456	NT	NT	NT
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00151	<0.00155	<0.00153	NT	NT	NT
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000999	<0.00103	<0.00101	NT	NT	NT
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00123	<0.00126	<0.00124	NT	NT	NT
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000937	<0.000963	<0.000948	NT	NT	NT
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00253	<0.0026	<0.00256	NT	NT	NT
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00554	<0.00569	<0.0056	NT	NT	NT
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000488	<0.000502	<0.000494	NT	NT	NT
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00157	<0.00162	<0.00159	NT	NT	NT
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00185	<0.0019	<0.00187	NT	NT	NT
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00214	<0.0022	<0.00216	NT	NT	NT
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000888	<0.000912	<0.000899	NT	NT	NT
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000624	<0.000641	<0.000632	NT	NT	NT
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000516	<0.00053	<0.000522	NT	NT	NT
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000543	<0.000558	<0.000549	NT	NT	NT
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000749	<0.00077	<0.000758	NT	NT	NT
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00155	<0.00159	<0.00157	NT	NT	NT
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00138	<0.00142	<0.00139	NT	NT	NT
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.0019	<0.00195	<0.00192	NT	NT	NT
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000861	<0.000884	<0.000871	NT	NT	NT
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.00076	<0.000781	<0.000769	NT	NT	NT
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000736	<0.000756	<0.000745	NT	NT	NT
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00166	<0.00171	<0.00168	NT	NT	NT
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.00038	<0.00039	<0.000384	NT	NT	NT
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	0.001930 J	<0.000591	0.001060 J	NT	NT	NT
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.00057	<0.000586	<0.000577	NT	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0138	<0.0142	<0.0139	NT	NT	NT
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0257 B J	0.0501 B	0.0221 B J	NT	NT	NT
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0109	<0.0112	<0.011	NT	NT	NT
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00109	<0.00112	<0.0011	NT	NT	NT
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00721	<0.00741	<0.00729	NT	NT	NT
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.00032	<0.000329	<0.000324	NT	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	0.00442 J	<0.00348	0.00494 J	NT	NT	NT
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00128	<0.00132	<0.0013	NT	NT	NT
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00296	<0.00304	<0.003	NT	NT	NT
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000543	<0.000558	<0.000549	NT	NT	NT
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000423	<0.000435	<0.000428	NT	NT	NT
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.00076	<0.000781	<0.000769	NT	NT	NT
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00596	0.00281 J	0.00513 J	NT	NT	NT
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000733	<0.000753	<0.000741	NT	NT	NT
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000678	<0.000697	<0.000687	NT	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00523	<0.00538	<0.00529	NT	NT	NT
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000298	<0.000307	<0.000302	NT	NT	NT
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.000958	<0.000985	<0.00097	NT	NT	NT
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000434	<0.000446	<0.000439	NT	NT	NT
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000543	<0.000558	<0.000549	NT	NT	NT
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00554	<0.00569	<0.0056	NT	NT	NT
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	0.00148 J	<0.00128	0.00148 J	NT	NT	NT
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	0.00141 J	<0.00129	0.00149 J	NT	NT	NT
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00117	<0.0012	<0.00119	NT	NT	NT
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000741	<0.000762	<0.00075	NT	NT	NT
Xylenes	9	16000	NL	NL	14	mg/kg	0.0115	<0.00533	0.00538 J	NT	NT	NT

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name Laboratory Identification Sample Date Depth Range	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB24			
							L1161924-27	L1168403-32	L1161924-28	L1161924-29
							11/14/2019	11/14/2019	11/14/2019	11/14/2019
							0 - 1 ft	1 - 2 ft	2 - 3 ft	4 - 6 ft
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	1.020 B J	NT	--	--
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	NT	<0.871	1.28 B J
Diesel range organics	2000	NL	NL	460	NL	mg/kg	6.36	9.63 J T8	24.1 J	10.4 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	66.5	96.6 T8	226	102
Metals (EPA Method 6010/7471)										
Arsenic	20	24	0.67	20	2.9	mg/kg	102	NT	7.22	5.26
Barium	NL	16000	NL	1250	1600	mg/kg	68.1	NT	68.4	109
Cadmium	2	8	NL	25	0.69	mg/kg	0.179 J	NT	0.1940 J	0.1790 J
Lead	250	NL	NL	220	3000	mg/kg	37	NT	33.3	27.3
Mercury	2	NL	NL	9	2.1	mg/kg	0.0564	NT	0.0359	0.03080 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	0.724 J	NT	<0.637	<0.68
Silver	NL	400	NL	NL	14	mg/kg	<0.134	NT	<0.123	<0.132
Total Chromium	NL	NL	NL	42	NL	mg/kg	32.1	NT	24.9	33.1
Other										
% Moisture	NL	NL	NL	NL	NL	%	89.8	90.8	97.3	91.1
VOAs (EPA Method 8260)										
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0153	NT	<0.0141	<0.015
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00212	NT	<0.00195	<0.00208
Benzene	0.03	320	18	NL	0.027	mg/kg	0.000455 J	NT	<0.000411	<0.000439
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00117	NT	<0.00108	<0.00115
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000878	NT	<0.000809	<0.000865
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00666	NT	<0.00614	<0.00656
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00412	NT	<0.0038	<0.00406
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00428	NT	<0.00394	<0.00421
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00282	NT	<0.0026	<0.00278
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00173	NT	<0.00159	<0.0017
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.0012	NT	<0.00111	<0.00119
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000638	NT	<0.000589	<0.000629
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.0012	NT	<0.00111	<0.00119
Chloroform	NL	800	32	NL	0.074	mg/kg	0.000701 B J	NT	0.000472 B J	<0.000455
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00155	NT	<0.00143	<0.00153
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00103	NT	<0.000945	<0.00101
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00126	NT	<0.00116	<0.00124
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000962	NT	<0.000887	<0.000947
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.0026	NT	<0.00239	<0.00256
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00568	NT	<0.00524	<0.0056
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000501	NT	<0.000462	<0.000494
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00162	NT	<0.00149	<0.00159
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00189	NT	<0.00175	<0.00187
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00219	NT	<0.00202	<0.00216
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000911	NT	<0.00084	<0.000898
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000641	NT	<0.000591	<0.000631
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000529	NT	<0.000488	<0.000521
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000557	NT	<0.000514	<0.000549
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000769	NT	<0.000709	<0.000757
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00159	NT	<0.00147	<0.00157
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00141	NT	<0.0013	<0.00139
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00195	NT	<0.0018	<0.00192
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000884	NT	<0.000815	<0.00087
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.00078	NT	<0.000719	<0.000768
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000755	NT	<0.000696	<0.000744
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.0017	NT	<0.00157	<0.00168
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.00039	NT	<0.00036	<0.000384
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.00059	NT	<0.000544	<0.000582
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000585	NT	<0.000539	<0.000576
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0141	NT	<0.013	<0.0139
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0456 B	NT	0.0380 B	0.0244 B J
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0111	NT	<0.0103	<0.011
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00111	NT	<0.00103	<0.0011
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.0074	NT	<0.00682	<0.00729
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000329	NT	<0.000303	<0.000324
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00348	NT	<0.00321	<0.00342
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00131	NT	<0.00121	<0.00129
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00304	NT	<0.0028	<0.003
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000557	NT	<0.000514	<0.000549
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000435	NT	<0.000401	<0.000428
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.00078	NT	<0.000719	<0.000768
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00246 J	NT	<0.00128	<0.00137
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000752	NT	<0.000693	<0.000741
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000696	NT	<0.000642	<0.000686
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00537	NT	<0.00495	<0.00529
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000306	NT	<0.000283	<0.000302
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.000984	NT	<0.000907	<0.000969
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000446	NT	<0.000411	<0.000439
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000557	NT	<0.000514	<0.000549
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00568	NT	<0.00524	<0.0056
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00128	NT	<0.00118	<0.00126
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	<0.00129	NT	<0.00119	<0.00127
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.0012	NT	<0.00111	<0.00119
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000761	NT	<0.000702	<0.00075
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00533	NT	<0.00491	<0.00525

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB25									
Laboratory Identification							L1161924-30	L1165628-29	L1161924-31	L1161924-32	L1161924-33	L1165628-30	L1161924-34	L1165628-31	L1161924-35	L1161924-36
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							1 - 2 ft	2 - 3 ft	3 - 4 ft	6 - 8 ft	8 - 9 ft	9 - 10 ft	10 - 11 ft	14 - 15 ft	16 - 17 ft	19 - 20 ft
Hydrocarbon (NWTPHGx and NWTPHDx)																
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	1.870 B J	NT	2.490 B J	3.09 B J	2.24 B J	NT	3.49 B	NT	2.25 B J	2.63 B J
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	NT	--	--	--	NT	--	NT	--	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	137	NT	141	58.9	23	NT	33	NT	18.9	21.3
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1060	NT	952	163	106	NT	142	NT	81.6	89.8
Metals (EPA Method 6010/7471)																
Arsenic	20	24	0.67	20	2.9	mg/kg	3.39	NT	3.8	6.85	6.45	NT	8.99	NT	7.17	6.71
Barium	NL	16000	NL	1250	1600	mg/kg	92.4	NT	67	93.9	104	NT	118	NT	111	98.3
Cadmium	2	8	NL	25	0.69	mg/kg	0.1400 J	NT	0.1410 J	0.2790 J	0.2910 J	NT	0.3300 J	NT	0.4990 J	0.3750 J
Lead	250	NL	NL	220	3000	mg/kg	7.82	8.59	6.73	13.7	16.7	14.1	18.7	12.6	28	14.9
Mercury	2	NL	NL	9	2.1	mg/kg	0.01560 J	NT	0.02420 J	0.0643	0.0645	NT	0.0701	NT	0.0763	0.0541
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.685	NT	<0.674	<0.773	<0.784	NT	<0.249	NT	<0.781	<0.776
Silver	NL	400	NL	NL	14	mg/kg	<0.133	NT	<0.131	<0.15	<0.152	NT	<0.158	NT	<0.151	<0.15
Total Chromium	NL	NL	NL	42	NL	mg/kg	25.2	NT	24	22.6	24.4	NT	23.8	NT	31.7	32.4
Other																
% Moisture	NL	NL	NL	NL	NL	%	90.5	94.1	91.9	80.2	79.1	78.7	76.2	84.5	79.4	79.9
VOAs (EPA Method 8260)																
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0151	NT	<0.0149	0.0469	0.095	NT	<0.018	NT	0.0622	0.0834
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.0021	NT	<0.00207	<0.00237	<0.0024	NT	<0.00249	NT	<0.00239	<0.00238
Benzene	0.03	320	18	NL	0.027	mg/kg	0.000483 J	NT	0.000457 J	0.000715 J	0.00139	NT	0.000566 J	NT	0.000696 J	0.0007 J
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00116	NT	<0.00114	<0.00131	<0.00133	NT	<0.00138	NT	<0.00132	<0.00131
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000871	NT	<0.000857	<0.000983	<0.000997	NT	<0.00103	NT	<0.000992	<9.860001E-
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00661	NT	<0.0065	<0.00746	<0.00756	NT	<0.00785	NT	<0.00753	<0.00748
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00409	NT	<0.00402	<0.00461	<0.00468	NT	<0.00486	NT	<0.00466	<0.00463
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00424	NT	<0.00418	0.00569 J	0.01030 J	NT	0.00646 J	NT	<0.00483	<0.0048
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.0028	NT	<0.00275	0.00431 J	0.0073 J	NT	0.00462 J	NT	<0.00319	<0.00316
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00171	NT	<0.00169	<0.00193	<0.00196	NT	<0.00204	NT	<0.00195	<0.00194
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00119	NT	<0.00117	<0.00135	<0.00137	NT	<0.00142	NT	<0.00136	<0.00135
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000633	NT	<0.000623	<0.000715	<0.000725	NT	<0.000752	NT	<0.000721	<0.000717
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00119	NT	<0.00117	<0.00135	<0.00137	NT	<0.00142	NT	<0.00136	<0.00135
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000459	NT	<0.000451	<0.000518	<0.000525	NT	<0.000545	NT	<0.000522	<0.000519
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00154	NT	<0.00151	<0.00173	<0.00176	NT	<0.00183	NT	<0.00175	<0.00174
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00102	NT	<0.001	<0.00115	<0.00116	NT	<0.00121	NT	<0.00116	<0.00115
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00125	NT	<0.00123	<0.00141	<0.00143	NT	<0.00148	NT	<0.00142	<0.00141
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000954	NT	<0.000939	0.00306 J	0.00477	NT	0.00374	NT	0.00112 J	<0.00108
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00257	NT	<0.00253	0.00340 J	0.0064	NT	0.00449 J	NT	0.00297 J	0.00390 J
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00564	NT	<0.00555	<0.00636	<0.00645	NT	<0.0067	NT	<0.00642	<0.00638
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000497	NT	<0.000489	<0.000561	<0.000569	NT	<0.000591	NT	<0.000567	<0.000563
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.0016	NT	<0.00158	<0.00181	<0.00183	NT	<0.0019	NT	<0.00183	<0.00181
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00188	NT	<0.00185	<0.00212	<0.00215	NT	<0.00223	NT	<0.00214	<0.00213
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00218	NT	<0.00214	<0.00246	<0.00249	NT	<0.00259	NT	<0.00248	<0.00246
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000904	NT	<0.00089	<0.00102	<0.00103	NT	<0.00107	NT	<0.00103	<0.00102
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000635	NT	<0.000625	<0.000717	<0.000727	NT	<0.000755	NT	<0.000724	<0.000719
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000525	NT	<0.000517	<0.000592	<0.000601	NT	<0.000624	NT	<0.000598	<0.000594
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000552	NT	<0.000544	<0.000624	<0.000632	NT	<0.000657	NT	<0.000629	<0.000625
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000762	NT	<0.00075	<0.00086	<0.000873	NT	<0.000906	NT	<0.000869	<0.000863
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00158	NT	<0.00156	<0.00178	<0.00181	NT	<0.00188	NT	<0.0018	<0.00179
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.0014	NT	<0.00138	<0.00158	<0.00161	NT	<0.00167	NT	<0.0016	<0.00159
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00193	NT	<0.0019	<0.00218	<0.00221	NT	<0.0023	NT	<0.0022	<0.00219
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000876	NT	<0.000863	<0.000989	<0.001	NT	<0.00104	NT	<0.000998	<0.000992
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000773	NT	<0.000761	<0.000873	<0.000885	NT	<0.000919	NT	<0.000881	<0.000876
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000749	NT	<0.000737	<0.000845	<0.000858	NT	<0.00089	NT	<0.000854	<0.000848
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00169	NT	<0.00166	<0.00191	<0.00194	NT	<0.00201	NT	<0.00193	<0.00191
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000387	NT	<0.000381	<0.000436	<0.000443	NT	<0.00046	NT	<0.000441	<0.000438
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000586	NT	<0.000576	0.001030 J	0.00195 J	NT	0.000771 J	NT	<0.000667	0.001660 J
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.00058	NT	<0.000571	<0.000655	<0.000664	NT	<0.000689	NT	<0.000661	<0.000657
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.014	NT	<0.0138	<0.0158	<0.0161	NT	<0.0167	NT	<0.016	<0.0159
Methyl ethyl ketone	NL	48000	NL	NL												

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A		Method B		Method B		Simplified	Soil Protective of	Reporting	SB26								
Laboratory Identification	Direct Contact	Non-Cancer	Cancer	Eco Evaluation	Groundwater	Terrestrial	Vadose at 13 Deg	Units		L1161924-37	L1161924-38	L1161924-39	L1161924-40	L1161924-41	L1166115-01	L1165628-33	L1161924-42	L1161924-43
Sample Date										May 2019	May 2019	May 2019	Unrestricted Land Use (May 2019)	(May 2019)	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range										0 - 1 ft	2 - 3 ft	4 - 6 ft	8 - 9 ft	10 - 11 ft	11 - 12 ft	14 - 15 ft	16 - 17 ft	19 - 20 ft
Hydrocarbon (NWTPHGx and NWTPHDx)																		
Gasoline range organics (Benzene Present)	30	NL	NL		200	NL	mg/kg	--	--	<0.945	<0.97	<0.994	NT	NT		<0.994	<1	
Gasoline range organics (Benzene NonDetect)	100	NL	NL		200	NL	mg/kg	<0.985	<0.973	--	--	--	NT	NT		--	--	
Diesel range organics	2000	NL	NL		460	NL	mg/kg	121	70.1	210	117	<78	NT	NT		<15.6	<15.8	
Oil Range Organics	2000	NL	NL		NL	NL	mg/kg	747	465	1420	780	383 J	NT	NT		110.0 J	163	
Metals (EPA Method 6010/7471)																		
Arsenic	20	24	0.67		20	2.9	mg/kg	5.85	7.68	6.94	7.47	7.71	NT	NT		6.28	6.09	
Barium	NL	16000	NL		1250	1600	mg/kg	82.5	113	97.8	114	143	NT	NT		105	99.5	
Cadmium	2	8	NL		25	0.69	mg/kg	0.5000 J	0.848	0.712	0.756	0.662	NT	NT		0.4690 J	0.4250 J	
Lead	250	NL	NL		220	3000	mg/kg	137	251	185	261	320	76.5	26.7		77.1	80.3	
Mercury	2	NL	NL		9	2.1	mg/kg	0.0586	0.0797	0.0634	0.09	0.0732	NT	NT		0.0461	0.0464	
Selenium	NL	400	NL		0.8	5.2	mg/kg	<0.721	<0.712	<0.691	<0.709	<0.727	NT	NT		<0.727	<0.735	
Silver	NL	400	NL		NL	14	mg/kg	<0.139	<0.138	<0.134	<0.137	<0.141	NT	NT		<0.141	<0.142	
Total Chromium	NL	NL	NL		42	NL	mg/kg	24.3	31.6	27.9	40.2	32.3	NT	NT		32.9	36.3	
Other																		
% Moisture	NL	NL	NL		NL	NL	%	86	87.1	89.7	87.4	85.3	83.2	92.2		85.2	84.4	
VOAs (EPA Method 8260)																		
Acetone	NL	72000	NL		NL	29	mg/kg	<0.0159	<0.0157	<0.0153	<0.0157	<0.0161	NT	NT		0.0164 J	0.0249 J	
Acrylonitrile	NL	3200	1.9		NL	NL	mg/kg	<0.00221	<0.00218	<0.00212	<0.00217	<0.00223	NT	NT		<0.00223	<0.00225	
Benzene	0.03	320	18		NL	0.027	mg/kg	<0.000465	<0.000459	0.000565 J	0.000747 J	0.000678 J	NT	NT		0.000781 J	0.000602 J	
Bromobenzene	NL	NL	640		NL	0.56	mg/kg	<0.00122	<0.00121	<0.00117	<0.0012	<0.00123	NT	NT		<0.00123	<0.00124	
Bromodichloromethane	NL	1600	16		NL	0.037	mg/kg	<0.000916	<0.000905	<0.000878	<0.000902	<0.000924	NT	NT		<0.000924	<0.000934	
Bromoform	NL	1600	130		NL	0.36	mg/kg	<0.00695	<0.00687	<0.00667	<0.00684	<0.00701	NT	NT		<0.00702	<0.00708	
Bromomethane	NL	110	NL		NL	0.05	mg/kg	<0.0043	<0.00425	<0.00412	<0.00423	<0.00434	NT	NT		<0.00434	<0.00438	
Butylbenzene, n-	NL	4000	NL		NL	NL	mg/kg	<0.00446	<0.00441	<0.00428	<0.00439	<0.0045	NT	NT		<0.00451	<0.00455	
Butylbenzene, sec-	NL	8000	NL		NL	NL	mg/kg	<0.00294	<0.0029	<0.00282	<0.00289	<0.00297	NT	NT		<0.00297	<0.003	
Butylbenzene, tert-	NL	8000	NL		NL	NL	mg/kg	<0.0018	<0.00178	<0.00173	<0.00177	<0.00182	NT	NT		<0.00182	<0.00184	
Carbon tetrachloride	NL	320	14		NL	0.042	mg/kg	<0.00126	<0.00124	<0.0012	<0.00124	<0.00127	NT	NT		<0.00127	<0.00128	
Chlorobenzene	NL	1600	NL		NL	0.86	mg/kg	<0.000666	<0.000658	<0.000639	<0.000656	<0.000672	NT	NT		<0.000672	<0.000679	
Chloroethane	NL	NL	NL		NL	NL	mg/kg	<0.00126	<0.00124	<0.0012	<0.00124	<0.00127	NT	NT		<0.00127	<0.00128	
Chloroform	NL	800	32		NL	0.074	mg/kg	<0.000482	<0.000476	<0.000463	<0.000475	<0.000487	NT	NT		<0.000487	<0.000492	
Chloromethane	NL	NL	NL		NL	NL	mg/kg	<0.00162	<0.0016	<0.00155	<0.00159	<0.00163	NT	NT		<0.00163	<0.00165	
Chlorotoluene, o-	NL	1600	NL		NL	NL	mg/kg	<0.00107	<0.00106	<0.00103	<0.00105	<0.00108	NT	NT		<0.00108	<0.00109	
Chlorotoluene, p-	NL	NL	NL		NL	NL	mg/kg	<0.00131	<0.0013	<0.00126	<0.00129	<0.00133	NT	NT		<0.00133	<0.00134	
Cumene	NL	8000	NL		NL	NL	mg/kg	<0.001	<0.000991	<0.000962	<9.869999E-	<0.00101	NT	NT		<0.00101	<0.00102	
Cymene	NL	NL	NL		NL	NL	mg/kg	<0.00271	<0.00268	<0.0026	<0.00267	<0.00273	NT	NT		<0.00273	0.00357 J	
Dibromo-3-chloropropane, 1,2-	NL	16	1.3		NL	NL	mg/kg	<0.00593	<0.00586	<0.00568	<0.00584	<0.00598	NT	NT		<0.00598	<0.00604	
Dibromochloromethane	NL	1600	12		NL	0.028	mg/kg	<0.000523	<0.000517	<0.000502	<0.000515	<0.000528	NT	NT		<0.000528	<0.000533	
Dichlorobenzene, 1,2-	NL	7200	NL		NL	7	mg/kg	<0.00169	<0.00166	<0.00162	<0.00166	<0.0017	NT	NT		<0.0017	<0.00172	
Dichlorobenzene, 1,3-	NL	NL	NL		NL	NL	mg/kg	<0.00198	<0.00195	<0.00189	<0.00195	<0.00199	NT	NT		<0.00199	<0.00201	
Dichlorobenzene, 1,4-	NL	5600	190		NL	1.2	mg/kg	<0.00229	<0.00226	<0.0022	<0.00225	<0.00231	NT	NT		<0.00231	<0.00233	
Dichlorodifluoromethane	NL	16000	NL		NL	NL	mg/kg	<0.000951	<0.000939	<0.000912	<0.000936	<0.000959	NT	NT		<0.00096	<0.000969	
Dichloroethane, 1,1-	NL	16000	180		NL	0.041	mg/kg	<0.000668	<0.00066	<0.000641	<0.000658	<0.000674	NT	NT		<0.000675	<0.000681	
Dichloroethane, 1,2-	NL	480	11		NL	0.023	mg/kg	<0.000552	<0.000545	<0.000529	<0.000543	<0.000557	NT	NT		0.001130 J	<0.000563	
Dichloroethylene, 1,1-	NL	4000	NL		NL	0.046	mg/kg	<0.000581	<0.000574	<0.000557	<0.000572	<0.000586	NT	NT		<0.000587	<0.000592	
Dichloroethylene, cis-1,2-	NL	160	NL		NL	0.078	mg/kg	<0.000802	<0.000792	<0.000769	<0.000789	<0.000809	NT	NT		<0.000809	<0.000817	
Dichloroethylene, trans-1,2	NL	1600	NL		NL	0.52	mg/kg	<0.00166	<0.00164	<0.00159	<0.00164	<0.00168	NT	NT		<0.00168	<0.00169	
Dichloropropane, 1,2-	NL	3200	27		NL	0.025	mg/kg	<0.00148	<0.00146	<0.00142	<0.00145	<0.00149	NT	NT		<0.00149	<0.0015	
Dichloropropane, 1,3-	NL	NL	NL		NL	NL	mg/kg	<0.00203	<0.00201	<0.00195	<0.002	<0.00205	NT	NT		<0.00205	<0.00207	
Dichloropropane, 2,2-	NL	NL	NL		NL	NL	mg/kg	<0.000922	<0.00091	<0.000884	<0.000907	<0.00093	NT	NT		<0.00093	<0.000939	
Dichloropropene, 1,1-	NL	NL	NL		NL	NL	mg/kg	<0.000814	<0.000804	<0.00078	<0.000801	<0.000821	NT	NT		<0.000821	<0.000829	
Dichloropropene, cis 1,3-	NL	NL	NL		NL	NL	mg/kg	<0.000788	<0.000778	<0.000756	<0.000776	<0.000795	NT	NT		<0.000795	<0.000803	
Dichloropropene, trans 1,3-	NL	NL	NL		NL	NL	mg/kg	<0.00178	<0.00176	<0.00171	<0.00175	<0.00179	NT	NT		<0.00179	<0.00181	
Diisopropyl ether	NL	NL	NL		NL	NL	mg/kg	<0.000407	<0.000402	<0.00039	<0.0004	<0.00041	NT	NT		<0.000411	<0.000415	
Ethyl benzene	6	8000	NL		NL	5.9	mg/kg	<0.000616	0.000.									

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB27										
Laboratory Identification							L1161924-44	L1165628-34	L1161924-45	L1165628-35	L1161924-46	L1161924-47	L1165628-36	L1161924-48	L1165628-37	L1161924-49	L1161924-50
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							1 - 2 ft	2 - 3 ft	3 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 9 ft	9 - 10 ft	10 - 11 ft	14 - 15 ft	16 - 17 ft	19 - 20 ft
Hydrocarbon (NWTPHGx and NWTPHDx)																	
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	-	NT	-	NT	-	-	NT	<0.933	NT	<0.978	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	<0.917	NT	<0.955	NT	<0.924	<0.926	NT	-	NT	-	5.2
Diesel range organics	2000	NL	NL	460	NL	mg/kg	<14.4	NT	<14.5	NT	35.9 J	<72.7	NT	36.9 J	NT	<15.4	90.3
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	122	NT	88.5 J	NT	428	551	NT	469	NT	132	67.6
Metals (EPA Method 6010/7471)																	
Arsenic	20	24	0.67	20	2.9	mg/kg	3.78	NT	5.22	NT	NT	5.02	NT	4.96	NT	4.92	6.05
Barium	NL	16000	NL	1250	1600	mg/kg	79.3	NT	67.3	NT	NT	79.9	NT	80.1	NT	76.7	92.8
Cadmium	2	8	NL	25	0.69	mg/kg	0.1710 J	NT	0.1400 J	NT	NT	0.2790 J	NT	0.2880 J	NT	0.2250 J	0.2390 J
Lead	250	NL	NL	220	3000	mg/kg	3.6	137	4.22	3.24	22.1	38.1	10.2	33.7	25.3	26.7	
Mercury	2	NL	NL	9	2.1	mg/kg	0.01330 J	NT	0.01530 J	NT	NT	0.0383	NT	0.0454	NT	0.03320 J	0.0807
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.671	NT	<0.677	NT	NT	<0.678	NT	<0.683	NT	<0.716	<0.746
Silver	NL	400	NL	NL	14	mg/kg	<0.13	NT	<0.131	NT	NT	<0.131	NT	<0.132	NT	<0.139	<0.144
Total Chromium	NL	NL	NL	42	NL	mg/kg	24.5	NT	27.9	NT	NT	33.2	NT	27.5	NT	33.7	35.6
Other																	
% Moisture	NL	NL	NL	NL	NL	%	92.4	91.5	91.6	93.7	91.7	91.5	94.3	90.8	91.7	86.6	83.2
VOAs (EPA Method 8260)																	
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0148	NT	<0.015	NT	0.0202 J	0.018 J	NT	0.0183 J	NT	0.0173 J	<0.0165
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00206	NT	<0.00208	NT	<0.00207	<0.00208	NT	<0.00209	NT	<0.00219	<0.00228
Benzene	0.03	320	18	NL	0.027	mg/kg	<0.000433	NT	<0.000437	NT	<0.000436	<0.000437	NT	0.00060 J	NT	0.000595 J	<0.000481
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00114	NT	<0.00115	NT	<0.00115	<0.00115	NT	<0.00116	NT	<0.00121	<0.00126
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000853	NT	<0.000861	NT	<0.000859	<0.000861	NT	<0.000868	NT	<0.00091	<0.000948
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00647	NT	<0.00653	NT	<0.00652	<0.00654	NT	<0.00658	NT	<0.0069	<0.00719
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.004	NT	<0.00404	NT	<0.00404	<0.00404	NT	<0.00407	NT	<0.00427	<0.00445
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00416	NT	<0.00419	NT	<0.00419	<0.0042	NT	<0.00423	NT	<0.00443	<0.00462
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00274	NT	<0.00276	NT	<0.00276	<0.00277	NT	<0.00279	NT	<0.00292	<0.00304
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00168	NT	<0.00169	NT	<0.00169	<0.00169	NT	<0.00171	NT	<0.00179	<0.00186
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00117	NT	<0.00118	NT	<0.00118	<0.00118	NT	<0.00119	NT	<0.00125	<0.0013
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.00062	NT	<0.000626	NT	<0.000625	<0.000626	NT	<0.000631	NT	<0.000661	<0.000689
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00117	NT	<0.00118	NT	<0.00118	<0.00118	NT	<0.00119	NT	<0.00125	<0.0013
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000449	NT	<0.000453	NT	<0.000453	<0.000454	NT	<0.000457	NT	<0.000479	<0.000499
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.0015	NT	<0.00152	NT	<0.00152	<0.00152	NT	<0.00153	NT	<0.0016	<0.00167
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000996	NT	<0.001	NT	<0.001	<0.00101	NT	<0.00101	NT	<0.00106	<0.00111
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00122	NT	<0.00123	NT	<0.00123	<0.00124	NT	<0.00124	NT	<0.0013	<0.00136
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000934	NT	<0.000943	NT	<0.000941	<0.000943	NT	<0.00095	NT	<0.000996	<0.00104
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00252	NT	<0.00254	NT	0.146	0.0502	NT	0.0683	NT	0.0435	<0.0028
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00552	NT	<0.00557	NT	<0.00556	<0.00557	NT	<0.00561	NT	<0.00589	<0.00613
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000487	NT	<0.000492	NT	<0.000491	<0.000492	NT	<0.000495	NT	<0.000519	<0.000541
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00157	NT	<0.00158	NT	<0.00158	<0.00158	NT	<0.0016	NT	<0.00167	<0.00174
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00184	NT	<0.00186	NT	<0.00185	<0.00186	NT	<0.00187	NT	<0.00196	<0.00204
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00213	NT	<0.00215	NT	<0.00215	<0.00215	NT	<0.00217	NT	<0.00227	<0.00237
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000885	NT	<0.000893	NT	<0.000892	<0.000894	NT	<0.000901	NT	<0.000944	<0.000984
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000622	NT	<0.000628	NT	<0.000627	<0.000628	NT	<0.000633	NT	<0.000664	<0.000691
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000514	NT	<0.000519	NT	<0.000518	<0.000519	NT	<0.000523	NT	<0.000548	<0.000571
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000541	NT	<0.000546	NT	<0.000545	<0.000547	NT	<0.000555	NT	<0.000577	<0.000601
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000747	NT	<0.000754	NT	<0.000753	<0.000754	NT	<0.00076	NT	<0.000797	<0.00083
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00155	NT	<0.00156	NT	<0.00156	<0.00156	NT	<0.00157	NT	<0.00165	<0.00172
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00137	NT	<0.00139	NT	<0.00139	<0.00139	NT	<0.0014	NT	<0.00147	<0.00153
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00189	NT	<0.00191	NT	<0.00191	<0.00191	NT	<0.00193	NT	<0.00202	<0.0021
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000858	NT	<0.000866	NT	<0.000865	<0.000867	NT	<0.000873	NT	<0.000915	<0.000954
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000757	NT	<0.000765	NT	<0.000763	<0.000765	NT	<0.000771	NT	<0.000808	<0.000842
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000734	NT	<0.000741	NT	<0.000739	<0.000741	NT	<0.000746	NT	<0.000783	<0.000815
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00166	NT	<0.00167	NT	<0.00167	<0.00167	NT	<0.00168	NT	<0.00177	<0.00184
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000379	NT	<0.000382	NT	<0.000382	<0.000383	NT	<0.000385	NT	<0.000404	<0.000421
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000574	NT	<0.000579	NT	<0.000578	0.000774 J	NT	0.000774J	NT	<0.000612	<0.000637
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000568	NT	<0.000573	NT	<0.000574	<0.000574	NT	<0.000578	NT	<0.000606	<0.000631
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0137	NT	<0.0139	NT	<0.0139	<0.0139	NT	<0.014	NT	<0.0147	<0.0153
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0197 B J	NT	0.0210 B J	NT	0.0233 B J	0.0191 B J	NT	0.0220 B J	NT	0.0249 B J	<0.015
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0108	NT	<0.0109	NT	<0.0109	<0.0109	NT	<0.011	NT	<0.0115	<0.012
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00108	NT	<0.00109	NT	<0.00109	<0.00109	NT	<0.0011	NT	<0.00115	<0.0012
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00719	NT	<0.00725	NT	<0.00724	<0.00726	NT	<0.00731	NT	<0.00767	<0.00798
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000319	NT	<0.000322	NT	<0.000322	<0.000322	NT	<0.000325	NT	<0.000341	<0.000355
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00338	NT	<0.00341	NT	<0.0034	0.00591 J	NT	<0.00343	NT	<0.0036	<0.00375
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00128	NT	<0.00129	NT	<0.00129	<0.00129	NT	<0.0013	NT	<0.00136	<0.00142
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00295	NT	<0.00298	NT	<0.00298	<0.00298	NT	<0.00301	NT	<0.00315	<0.00328
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000541	NT	<0.000546	NT	<0.000545	<0.000547	NT	<0.00055	NT	<0.000577	<0.000601

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB28						
Laboratory Identification							L1161924-51	L1161924-52	L1161924-53	L1161924-54	L1161924-55	L1161924-56	L1161924-57
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 1 ft	2 - 3 ft	4 - 6 ft	8 - 9 ft	11 - 12 ft	16 - 17 ft	19 - 20 ft
Hydrocarbon (NWTPHGx and NWTPHDx)													
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.91	--	--	<0.941	--	--	<0.988
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	<0.939	<0.936	--	<0.965	<0.926	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	<71.4	77.0 J	<73.4	<14.8	<75.7	<14.5	2.85 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	220 J	252 J	<184	293	299 J	288	42.5
Metals (EPA Method 6010/7471)													
Arsenic	20	24	0.67	20	2.9	mg/kg	3.91	4.42	3.39	2.64	2.77	3.3	4.85
Barium	NL	16000	NL	1250	1600	mg/kg	62.8	66	60.9	67.7	57.9	62.4	86.4
Cadmium	2	8	NL	25	0.69	mg/kg	0.2110 J	0.2130 J	0.1620 J	0.2290 J	0.2130 J	0.1920 J	0.2290 J
Lead	250	NL	NL	220	3000	mg/kg	32.2	46.8	31	33.6	29.6	31	13.4
Mercury	2	NL	NL	9	2.1	mg/kg	0.0328	0.0195 J	0.02040 J	0.02220 J	0.02130 J	0.01970 J	0.0396
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.666	<0.687	<0.685	<0.688	<0.706	<0.677	<0.723
Silver	NL	400	NL	NL	14	mg/kg	<0.129	<0.133	<0.132	<0.133	<0.137	<0.131	<0.14
Total Chromium	NL	NL	NL	42	NL	mg/kg	29.9	23.3	20.5	22.3	23.5	34.8	33.9
Other													
% Moisture	NL	NL	NL	NL	NL	%	93.1	90.2	90.6	90.1	87.9	91.5	85.7
VOAs (EPA Method 8260)													
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0147	<0.0152	<0.0151	<0.0152	<0.0156	<0.015	<0.016
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00204	<0.00211	<0.0021	<0.00211	<0.00216	<0.00208	<0.00222
Benzene	0.03	320	18	NL	0.027	mg/kg	0.00043 J	<0.000443	<0.000442	0.000575 J	<0.000455	<0.000437	0.000556 J
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00113	<0.00116	<0.00116	<0.00117	<0.0012	<0.00115	<0.00122
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000846	<0.000873	<0.00087	<0.000875	<0.000897	<0.000861	<0.000919
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00642	<0.00663	<0.0066	<0.00664	<0.00681	<0.00653	<0.00697
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00397	<0.0041	<0.00409	<0.00411	<0.00421	<0.00404	<0.00432
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00412	<0.00426	<0.00424	<0.00426	<0.00437	<0.0042	<0.00448
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00272	<0.0028	<0.00279	<0.00281	<0.00288	<0.00276	<0.00295
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00166	<0.00172	<0.00171	<0.00172	<0.00176	<0.00169	<0.00181
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00116	<0.0012	<0.00119	<0.0012	<0.00123	<0.00118	<0.00126
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000615	<0.000635	<0.000633	<0.000636	<0.000652	<0.000626	<0.000668
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00116	<0.0012	<0.00119	<0.0012	<0.00123	<0.00118	<0.00126
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000446	<0.00046	<0.000458	<0.000461	<0.000472	<0.000453	<0.000484
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00149	<0.00154	<0.00153	<0.00154	<0.00158	<0.00152	<0.00162
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000988	<0.00102	<0.00102	<0.00102	<0.00105	<0.00101	<0.00107
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00121	<0.00125	<0.00125	<0.00125	<0.00129	<0.00123	<0.00132
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000927	<0.000956	<0.000953	<0.000958	<0.000982	<0.000943	<0.00101
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.0025	<0.00258	<0.00257	<0.00259	<0.00265	<0.00255	<0.00272
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00548	<0.00565	<0.00563	<0.00566	<0.00581	<0.00557	<0.00595
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000483	<0.000499	<0.000497	<0.0005	<0.000512	<0.000492	<0.000525
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00156	<0.00161	<0.0016	<0.00161	<0.00165	<0.00158	<0.00169
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00183	<0.00188	<0.00188	<0.00189	<0.00194	<0.00186	<0.00198
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00212	<0.00218	<0.00218	<0.00219	<0.00224	<0.00215	<0.0023
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000878	<0.000907	<0.000903	<0.000908	<0.000931	<0.000894	<0.000954
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000617	<0.000637	<0.000635	<0.000638	<0.000654	<0.000628	<0.000671
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.00051	<0.000526	<0.000524	<0.000527	<0.000541	<0.000519	<0.000554
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000537	<0.000554	<0.000552	<0.000555	<0.000569	<0.000546	<0.000583
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000741	<0.000765	<0.000762	<0.000766	<0.000785	<0.000754	<0.000805
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00154	<0.00158	<0.00158	<0.00159	<0.00163	<0.00156	<0.00167
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00136	<0.00141	<0.0014	<0.00141	<0.00145	<0.00139	<0.00148
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00188	<0.00194	<0.00193	<0.00194	<0.00199	<0.00191	<0.00204
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000852	<0.000879	<0.000876	<0.00088	<0.000903	<0.000866	<0.000925
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000752	<0.000776	<0.000773	<0.000777	<0.000797	<0.000765	<0.000816
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000728	<0.000751	<0.000749	<0.000753	<0.000772	<0.000741	<0.000791
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00164	<0.0017	<0.00169	<0.00171	<0.00174	<0.00167	<0.00178
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000376	<0.000388	<0.000386	<0.000389	<0.000398	<0.000382	<0.000408
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	0.000865 J	<0.000587	<0.000585	<0.000588	<0.000603	<0.000579	<0.000618
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000564	<0.000582	<0.00058	<0.000583	<0.000598	<0.000574	<0.000612
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0136	<0.0141	<0.014	<0.0141	<0.0145	<0.0139	<0.0148
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0212 B J	0.0235 B J	0.0176 B J	0.0379 B	0.0254 B J	0.0232 B J	0.0187 B J
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0107	<0.0111	<0.011	<0.0111	<0.0114	<0.0109	<0.0117
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00107	<0.00111	<				

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB29						
Laboratory Identification							L1161924-58	L1161924-59	L1161924-60	L1161924-61	L1161924-62	L1161924-63	L1161924-64
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							1 - 2 ft	3 - 4 ft	6 - 8 ft	9 - 10 ft	11 - 12 ft	16 - 17 ft	19 - 20 ft
Hydrocarbon (NWTPHGx and NWTPHDx)													
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	--	--	--	--	--	<1.03	--
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	<0.928	<0.925	<0.969	<0.988	<0.986	--	<1.31
Diesel range organics	2000	NL	NL	460	NL	mg/kg	2.85 J	<7.26	3.29 J	9.99	5.26	112	25.2 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	45.3	123	18.5	31.1	20.9	753	185
Metals (EPA Method 6010/7471)													
Arsenic	20	24	0.67	20	2.9	mg/kg	2.74	2.32	2.93	3.66	3.68	4.5	3
Barium	NL	16000	NL	1250	1600	mg/kg	61.5	49.1	108	99.4	106	124	100
Cadmium	2	8	NL	25	0.69	mg/kg	0.1480 J	0.1530 J	0.22 J	0.1930 J	0.1720 J	0.5770 J	0.3050 J
Lead	250	NL	NL	220	3000	mg/kg	4.53	6.28	6.93	5.63	7.13	44.3	20.2
Mercury	2	NL	NL	9	2.1	mg/kg	0.02230 J	0.02120 J	0.0395	0.036	0.03160 J	0.102	0.0874
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.679	<0.677	<0.709	<0.722	<0.721	<0.756	<0.755
Silver	NL	400	NL	NL	14	mg/kg	<0.131	<0.131	<0.137	<0.14	<0.14	<0.146	<0.146
Total Chromium	NL	NL	NL	42	NL	mg/kg	22.5	18.3	30.6	32.8	32.3	33	34.6
Other													
% Moisture	NL	NL	NL	NL	NL	%	91.3	91.6	87.5	85.8	86	82	82.1
VOAs (EPA Method 8260)													
Acetone	NL	72000	NL	NL	29	mg/kg	<0.015	<0.015	0.0368	0.021 J	<0.0159	<0.0167	<0.0167
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00208	<0.00207	<0.00217	<0.00221	<0.00221	<0.00232	<0.00232
Benzene	0.03	320	18	NL	0.027	mg/kg	<0.000438	<0.000437	<0.000457	<0.000466	<0.000465	0.000794 J	<0.000487
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00115	<0.00115	<0.0012	<0.00122	<0.00122	<0.00128	<0.00128
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000863	<0.00086	<0.000901	<0.000918	<0.000917	<0.000961	<0.00096
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00655	<0.00653	<0.00683	<0.00697	<0.00696	<0.00729	<0.00729
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00405	<0.00404	<0.00423	<0.00431	<0.0043	<0.00451	<0.00451
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.0042	<0.00419	<0.00439	<0.00447	<0.00447	<0.00468	<0.00468
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00277	<0.00276	<0.00289	<0.00295	<0.00294	<0.00309	<0.00308
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.0017	<0.00169	<0.00177	<0.00181	<0.0018	<0.00189	<0.00189
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00118	<0.00118	<0.00123	<0.00126	<0.00126	<0.00132	<0.00132
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000627	<0.000625	<0.000655	<0.000668	<0.000667	<0.000699	<0.000698
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00118	<0.00118	<0.00123	<0.00126	<0.00126	<0.00132	<0.00132
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000454	<0.000453	<0.000474	0.000534 J	<0.000483	<0.000506	<0.000506
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00152	<0.00152	<0.00159	<0.00162	<0.00162	<0.0017	<0.00169
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00101	<0.001	<0.00105	<0.00107	<0.00107	<0.00112	<0.00112
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00124	<0.00123	<0.00129	<0.00132	<0.00131	<0.00138	<0.00138
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000945	<0.000942	<9.860001E-	<0.00101	<0.001	<0.00105	<0.00105
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00255	<0.00254	0.0113	0.0132	0.0104	0.0132	<0.00284
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00558	<0.00557	<0.00583	<0.00594	<0.00593	<0.00622	<0.00621
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000493	<0.000491	<0.000514	<0.000524	<0.000523	<0.000549	<0.000548
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00159	<0.00158	<0.00166	<0.00169	<0.00169	<0.00177	<0.00177
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00186	<0.00186	<0.00194	<0.00198	<0.00198	<0.00207	<0.00207
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00216	<0.00215	<0.00225	<0.0023	<0.00229	<0.0024	<0.0024
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000895	<0.000893	<0.000935	<0.000953	<0.000952	<0.000998	<0.000997
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000629	<0.000628	<0.000657	<0.00067	<0.000669	<0.000701	<0.000701
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.00052	<0.000518	<0.000543	0.000868 J	<0.000553	<0.000579	<0.000579
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000547	<0.000546	<0.000571	<0.000583	<0.000582	<0.00061	<0.000609
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000755	<0.000753	<0.000789	<0.000804	<0.000803	<0.000842	<0.000841
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00157	<0.00156	<0.00163	<0.00167	<0.00166	<0.00174	<0.00174
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00139	<0.00139	<0.00145	<0.00148	<0.00148	<0.00155	<0.00155
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00192	<0.00191	<0.002	<0.00204	<0.00204	<0.00213	<0.00213
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000868	<0.000866	<0.000906	<0.000924	<0.000923	<0.000967	<0.000966
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000766	<0.000764	<0.0008	<0.000816	<0.000814	<0.000854	<0.000853
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000742	<0.00074	<0.000775	<0.00079	<0.000789	<0.000827	<0.000826
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00167	<0.00167	<0.00175	<0.00178	<0.00178	<0.00187	<0.00186
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000383	<0.000382	<0.0004	<0.000408	<0.000407	<0.000427	<0.000426
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.00058	<0.000578	<0.000606	<0.000618	<0.000617	<0.000646	<0.000646
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000575	<0.000573	<0.0006	<0.000612	<0.000611	<0.00064	<0.00064
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0139	<0.0139	<0.0145	<0.0148	<0.0148	<0.0155	<0.0155
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0186 B J	0.0230 B J	0.0246 B J	0.0165 B J	<0.0145	<0.0	

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB30					
Laboratory Identification							L1161924-65	L1161924-66	L1161924-67	L1161924-68	L1165628-39	L1165628-40
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 0.5 ft	0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	3 - 3.5 ft	4.5 - 5 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.902	--	--	<0.92	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	<0.905	<1.36	--	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	87.5 J	90 J	33.0 J	30.5 J	NT	NT
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	804	842	233	218	NT	NT
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	338	291	142	86.9	5.31	13.2
Barium	NL	16000	NL	1250	1600	mg/kg	68.8	71	86.9	87.5	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.911	0.85	0.4980 J	0.341 J	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	301	261	127	74.6	27.5	12
Mercury	2	NL	NL	9	2.1	mg/kg	0.02770 J	0.02500 J	0.028 J	0.0337	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.66	<0.662	<0.663	<0.673	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	0.783 J	0.620 J	0.226 J	<0.13	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	43.9	37.4	33.3	36.9	31.8	28.7
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	<0.681	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	43.9	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	93.9	93.7	93.5	92.1	92.1	92.7
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0146	<0.0146	<0.0155	<0.0149	NT	NT
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00202	<0.00203	<0.00215	<0.00206	NT	NT
Benzene	0.03	320	18	NL	0.027	mg/kg	0.00111	0.00211	<0.000454	0.000887 J	NT	NT
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00112	<0.00112	<0.00119	<0.00114	NT	NT
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000839	<0.000841	<0.000894	<0.000856	NT	NT
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00637	<0.00638	<0.00678	<0.00649	NT	NT
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00394	<0.00395	<0.0042	<0.00402	NT	NT
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00409	<0.0041	<0.00435	<0.00417	NT	NT
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00269	<0.0027	<0.00287	<0.00275	NT	NT
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00165	<0.00165	<0.00176	<0.00168	NT	NT
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00115	<0.00115	<0.00122	<0.00117	NT	NT
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.00061	<0.000612	<0.00065	<0.000622	NT	NT
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00115	<0.00115	<0.00122	<0.00117	NT	NT
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000442	0.000627 J	<0.000471	<0.000451	NT	NT
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00148	<0.00148	<0.00158	<0.00151	NT	NT
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000979	<0.000982	<0.00104	<0.000999	NT	NT
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.0012	<0.00121	<0.00128	<0.00123	NT	NT
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000919	<0.000921	<0.000979	<0.000937	NT	NT
Cymene	NL	NL	NL	NL	NL	mg/kg	0.00274 J	0.00253 J	0.00445 J	0.00285 J	NT	NT
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00543	<0.00545	<0.00578	<0.00554	NT	NT
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000479	<0.00048	<0.00051	<0.000489	NT	NT
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00154	<0.00155	<0.00164	<0.00157	NT	NT
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00181	<0.00182	<0.00193	<0.00185	NT	NT
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.0021	<0.0021	<0.00223	<0.00214	NT	NT
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000871	<0.000873	<0.000928	<0.000888	NT	NT
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000612	<0.000614	<0.000652	<0.000624	NT	NT
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000506	<0.000507	<0.000539	<0.000516	NT	NT
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000532	<0.000534	<0.000567	<0.000543	NT	NT
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000735	<0.000737	<0.000782	<0.000749	NT	NT
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00152	<0.00153	<0.00162	<0.00155	NT	NT
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00135	<0.00136	<0.00144	<0.00138	NT	NT
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00186	<0.00187	<0.00198	<0.0019	NT	NT
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000844	<0.000847	<0.000899	<0.000861	NT	NT
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000745	<0.000747	<0.000794	<0.00076	NT	NT
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000722	<0.000724	<0.000769	<0.000736	NT	NT
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00163	<0.00163	<0.00174	<0.00166	NT	NT
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000373	<0.000374	<0.000397	<0.00038	NT	NT
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000564	0.001670 J	<0.000601	<0.000576	NT	NT
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000559	<0.000561	<0.000595	<0.00057	NT	NT
Hexachlorobenzene	NL	80	13	NL	0.6	mg/kg	<0.00132	<0.00132	<0.00133	<0.00135	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0135	<0.0136	<0.0144	<0.0138	NT	NT
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	<0.0133	<0.0133	<0.0142	<0.0136	NT	NT
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0106	<0.0107	<0.0113	<0.0109	NT	NT
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00106	<0.00107	<0.00113	<0.00109	NT	NT
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00707	<0.00709	<0.00753	<0.00721	NT	NT
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000314	<0.000315	<0.000335	<0.00032	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00332	<0.00333	<0.00354	<0.00339	NT	NT
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	0.00133 J J4	<0.00126	<0.00134	<0.00128	NT	NT
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00291	<0.00291	<0.0031	<0.00296	NT	NT
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000532	<0.000534	<0.000567	<0.000543	NT	NT
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000415	<0.000416	<0.000442	<0.000424	NT	NT
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000745	<0.000747	<0.000794	<0.00076	NT	NT
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00729	0.0111	0.00547 J	0.00551	NT	NT
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000719	<0.000721	<0.000765	<0.000733	NT	NT
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000665	<0.000667	<0.000709	<0.000679	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00513	<0.00515	<0.00547	<0.00523	NT	NT
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000293	<0.000294	<0.000312	<0.000299	NT	NT
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.00094	<0.000943	<0.001	<0.000959	NT	NT
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000426	<0.000427	<0.000454	<0.000434	NT	NT
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000532	<0.000534	<0.000567	<0.000543	NT	NT
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00543	<0.00545				

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB30					
Laboratory Identification							L1161924-65	L1161924-66	L1161924-67	L1161924-68	L1165628-39	L1165628-40
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 0.5 ft	0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	3 - 3.5 ft	4.5 - 5 ft
OP Pesticides (Methon 8141)												
Azinphos-methyl	NL	240	NL	NL	NL	mg/kg	<0.0805	<0.0807	<0.00404	<0.0041	NT	NT
Chlorpyrifos	NL	80	NL	NL	NL	mg/kg	<0.197	<0.197	<0.00987	<0.01	NT	NT
Coumaphos	NL	NL	NL	NL	NL	mg/kg	<0.145	<0.145	<0.00727	<0.00738	NT	NT
Demeton	NL	3.2	NL	NL	NL	mg/kg	<0.0722	<0.0724	<0.00363	<0.00368	NT	NT
Diazinon	NL	56	NL	NL	NL	mg/kg	<0.0952	<0.0955	<0.00478	<0.00485	NT	NT
Dichlorvos	NL	40.00	3.40	NL	NL	mg/kg	<0.206	<0.207	<0.0104	<0.0105	NT	NT
Dimethoate	NL	16	NL	NL	NL	mg/kg	<0.422	<0.423	<0.0212	<0.0215	NT	NT
Disulfoton	NL	3.2	NL	NL	NL	mg/kg	<0.106	<0.106	<0.00533	<0.00541	NT	NT
EPN	NL	0.8	NL	NL	NL	mg/kg	<0.109	<0.109	<0.00548	<0.00556	NT	NT
Ethoprop	NL	NL	NL	NL	NL	mg/kg	<0.099	<0.0993	<0.00497	<0.00505	NT	NT
Fensulfothion	NL	NL	NL	NL	NL	mg/kg	<0.36	<0.361	<0.0181	<0.0184	NT	NT
Fenthion	NL	NL	NL	NL	NL	mg/kg	<0.129	<0.13	<0.0065	<0.0066	NT	NT
Malathion	NL	1600	NL	NL	NL	mg/kg	<0.149	<0.149	<0.00749	<0.0076	NT	NT
MCPPE	NL	80	NL	NL	NL	mg/kg	<0.391	<0.392	<0.393	<0.399	NT	NT
Merphos	NL	2.4	NL	NL	NL	mg/kg	<0.115	<0.115	<0.00577	<0.00585	NT	NT
Methyl parathion	NL	20	NL	NL	NL	mg/kg	<0.142	<0.143	<0.00716	<0.00727	NT	NT
Naled	NL	160	NL	NL	NL	mg/kg	<0.089	<0.0893	<0.00447	<0.00454	NT	NT
Parathion	NL	480	NL	NL	NL	mg/kg	<0.122	<0.122	<0.00611	<0.0062	NT	NT
Phorate	NL	16	NL	NL	NL	mg/kg	<0.1	<0.101	<0.00504	<0.00511	NT	NT
Phosdrin	NL	NL	NL	NL	NL	mg/kg	<0.217	<0.218	<0.0109	<0.0111	NT	NT
Prothiofos	NL	NL	NL	NL	NL	mg/kg	<0.129	<0.129	<0.00646	<0.00656	NT	NT
Ronnel	NL	4000	NL	NL	NL	mg/kg	<0.093	<0.0933	<0.00468	<0.00475	NT	NT
Sulprofos	NL	NL	NL	NL	NL	mg/kg	<0.118	<0.118	<0.00593	<0.00602	NT	NT
TEPP	NL	NL	NL	NL	NL	mg/kg	<3.34	<3.35	<0.168	<0.17	NT	NT
Tetrachlorvinphos	NL	2400	42.00	NL	NL	mg/kg	<0.114	<0.115	<0.00574	<0.00583	NT	NT
Tetraethyl dithiopyrophosphate	NL	40	NL	NL	NL	mg/kg	<0.0822	<0.0824	<0.00413	<0.00419	NT	NT
Trichloronate	NL	NL	NL	NL	NL	mg/kg	<0.141	<0.142	<0.0071	<0.00721	NT	NT
Herbicides												
4-(chloro-2-methylphenoxy) acetic acid	NL	1600	NL	NL	NL	mg/kg	<0.472	<0.473	<0.474	<0.481	NT	NT
Dalapon, sodium salt	NL	2400	NL	NL	NL	mg/kg	<0.012	<0.0121	<0.0121	<0.0123	NT	NT
Dicamba	NL	2400	NL	NL	NL	mg/kg	<0.0167	<0.0168	<0.0168	<0.017	NT	NT
Dichlorophenoxy, 2,4- butyric acid, 4-	NL	800	NL	NL	NL	mg/kg	<0.0316	<0.0317	<0.0318	<0.0323	NT	NT
Dichlorophenoxyacetic acid, 2,4-	NL	800	NL	NL	NL	mg/kg	<0.00747	<0.0075	<0.00751	<0.00762	NT	NT
Dichloroprop	NL	NL	NL	NL	NL	mg/kg	<0.0261	<0.0262	<0.0262	<0.0266	NT	NT
Dinoseb	NL	80	NL	NL	NL	mg/kg	<0.00742	<0.00744	<0.00746	<0.00757	NT	NT
TP Silvex, 2,4,5-	NL	640	NL	NL	NL	mg/kg	<0.0114	<0.0114	<0.0114	<0.0116	NT	NT
Trichlorophenoxyacetic acid, 2,4,5-	NL	800	NL	NL	NL	mg/kg	<0.00907	<0.0091	<0.00911	<0.00925	NT	NT
OC Pesticides (Method 8081)												
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00144	<0.00144	<0.00144	<0.00147	<0.00147	<0.00146
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0415	<0.0416	<0.0417	<0.0424	<0.0423	<0.0421
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.00166	<0.00167	<0.00167	<0.00169	<0.00169	<0.00168
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00164	<0.00164	<0.00165	<0.00167	<0.00167	<0.00166
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.00213	<0.00214	<0.00214	<0.00217	0.00432 J	<0.00216
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	0.00314 J	0.00290 J	0.00200 J	0.00245 J	0.00186 J	<0.00164
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.00159	<0.00159	<0.00159	<0.00162	<0.00162	<0.00161
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.0017	<0.00171	<0.00171	<0.00174	<0.00174	<0.00173
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.00161	<0.00161	<0.00162	<0.00164	<0.00164	<0.00163
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00167	<0.00168	<0.00168	<0.0017	<0.0017	<0.00169
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00137	<0.00138	<0.00138	<0.0014	<0.0014	<0.00139
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.00176	<0.00176	<0.00177	<0.00179	<0.00179	<0.00178
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00164	<0.00164	<0.00165	<0.00167	<0.00167	<0.00166
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.00171	<0.00172	<0.00172	<0.00175	<0.00175	<0.00174
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00145	<0.00145	<0.00145	<0.00148	<0.00148	<0.00147
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.0017	<0.00171	<0.00171	<0.00174	<0.00174	<0.00173
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.00152	<0.00153	<0.00153	<0.00155	<0.00155	<0.00154
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00154	<0.00155	<0.00155	<0.00157	<0.00157	<0.00156
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.00189	<0.0019	<0.0019	<0.00193	<0.00193	<0.00192
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.0383	<0.0384	<0.0385	<0.0391	<0.0391	<0.0388

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB31					
Laboratory Identification							L1161924-69	L1161924-70	L1161924-71	L1161924-72	L1165628-41	L1165628-42
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 0.5 ft	0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	3 - 3.5 ft	4.5 - 5 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.924	--	<0.956	<0.951	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	<0.952	--	--	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	98.6 J	76.5 J	22 J	165	NT	NT
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1150	1160	157	642	NT	NT
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	59.3	51.7	125	163	170	56.4
Barium	NL	16000	NL	1250	1600	mg/kg	86	71.5	74.4	84	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.4460 J	0.4110 J	0.986	1.15	1.13	0.296 J
Lead	250	NL	NL	220	3000	mg/kg	84.5	65.4	143	182	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	0.0333	0.03080 J	0.037	0.03340 J	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.676	<0.697	<0.7	<0.696	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	<0.131	<0.135	0.263 J	0.458 J	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	30.3	27.8	34.1	35.4	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	91.7	89	88.6	89.1	91.4	93.4
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	0.0296	<0.0154	<0.0178	<0.0154	NT	NT
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00207	<0.00213	<0.00247	<0.00213	NT	NT
Benzene	0.03	320	18	NL	0.027	mg/kg	0.001050 J	0.00208	0.00168	0.00174	NT	NT
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00115	<0.00118	<0.00136	<0.00118	NT	NT
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.00086	<0.000885	<0.00102	<0.000885	NT	NT
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00652	<0.00672	<0.00776	<0.00671	NT	NT
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00404	<0.00416	<0.0048	<0.00415	NT	NT
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00419	<0.00431	<0.00498	<0.00431	NT	NT
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00276	<0.00284	<0.00328	<0.00284	NT	NT
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00169	<0.00174	<0.00201	<0.00174	NT	NT
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00118	<0.00121	<0.0014	<0.00121	NT	NT
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000625	<0.000644	<0.000743	<0.000643	NT	NT
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00118	<0.00121	<0.0014	<0.00121	NT	NT
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000453	<0.000466	<0.000538	<0.000466	NT	NT
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00152	<0.00156	<0.0018	<0.00156	NT	NT
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.001	<0.00103	<0.00119	<0.00103	NT	NT
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00123	<0.00127	<0.00147	<0.00127	NT	NT
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000941	<0.00097	<0.00112	<0.000969	NT	NT
Cymene	NL	NL	NL	NL	NL	mg/kg	0.00289 J	0.00812	0.0106	0.00764	NT	NT
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00556	<0.00573	<0.00662	<0.00573	NT	NT
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000491	<0.000506	<0.000584	<0.000505	NT	NT
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00158	<0.00163	<0.00188	<0.00163	NT	NT
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00185	<0.00191	<0.00221	<0.00191	NT	NT
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00215	<0.00221	<0.00256	<0.00221	NT	NT
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000892	<0.000919	<0.00106	<0.000918	NT	NT
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000627	<0.000646	<0.000746	<0.000645	NT	NT
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000518	<0.000534	<0.000616	<0.000533	NT	NT
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000545	<0.000562	<0.000649	<0.000561	NT	NT
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000753	<0.000775	<0.000895	<0.000775	NT	NT
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00156	<0.00161	<0.00186	<0.00161	NT	NT
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00139	<0.00143	<0.00165	<0.00143	NT	NT
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00191	<0.00197	<0.00227	<0.00196	NT	NT
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000865	<0.000891	<0.00103	<0.00089	NT	NT
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000764	<0.000786	<0.000908	<0.000786	NT	NT
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00074	<0.000762	<0.00088	<0.000761	NT	NT
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00167	<0.00172	<0.00199	<0.00172	NT	NT
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000382	<0.000393	<0.000454	<0.000393	NT	NT
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	0.00675	0.00513	0.00357	0.00356	NT	NT
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000573	<0.00059	<0.000681	<0.000589	NT	NT
Hexachlorobenzene	NL	80	13	NL	0.6	mg/kg	<0.00135	<0.00139	<0.0014	<0.00139	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0139	<0.0143	<0.0165	<0.0143	NT	NT
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0214 B J	0.020 B J	0.0402 B	0.014 B J	NT	NT
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0109	<0.0112	<0.013	<0.0112	NT	NT
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00109	<0.00112	<0.0013	<0.00112	NT	NT
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00724	<0.00746	<0.00862	<0.00745	NT	NT
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000322	<0.000331	<0.000383	<0.000331	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	0.0094 J	0.016	0.00794 J	0.0078 J	NT	NT
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	0.00273 J J4	0.00411 J J4	0.00351 J J4	0.00192 J J4	NT	NT
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00298	<0.00307	<0.00354	<0.00306	NT	NT
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000545	<0.000562	<0.000649	<0.000561	NT	NT
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000425	<0.000438	<0.000506	<0.000438	NT	NT
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000764	<0.000786	<0.000908	<0.000786	NT	NT
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00188 J	0.0047 J	0.00322 J	0.0035 J	NT	NT
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000736	<0.000758	<0.000876	<0.000758	NT	NT
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000682	<0.000702	<0.000811	<0.000702	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00526	<0.00542	<0.00625	<0.00541	NT	NT
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.0003	<0.000309	<0.000357	<0.000309	NT	NT

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB31					
Laboratory Identification							L1161924-69	L1161924-70	L1161924-71	L1161924-72	L1165628-41	L1165628-42
Sample Date							11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019	11/14/2019
Depth Range							0 - 0.5 ft	0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	3 - 3.5 ft	4.5 - 5 ft
OP Pesticides (Methon 8141)												
Azinphos-methyl	NL	240	NL	NL	NL	mg/kg	<0.00412	<0.00425	<0.00426	<0.00424	NT	NT
Chlorpyrifos	NL	80	NL	NL	NL	mg/kg	<0.0101	<0.0104	<0.0104	<0.0104	NT	NT
Coumaphos	NL	NL	NL	NL	NL	mg/kg	<0.00742	<0.00764	<0.00767	<0.00763	NT	NT
Demeton	NL	3.2	NL	NL	NL	mg/kg	<0.0037	<0.00381	<0.00382	<0.00381	NT	NT
Diazinon	NL	56	NL	NL	NL	mg/kg	<0.00488	<0.00502	<0.00504	<0.00502	NT	NT
Dichlorvos	NL	40.00	3.40	NL	NL	mg/kg	<0.0106	<0.0109	<0.0109	<0.0109	NT	NT
Dimethoate	NL	16	NL	NL	NL	mg/kg	<0.0216	<0.0222	<0.0223	<0.0222	NT	NT
Disulfoton	NL	3.2	NL	NL	NL	mg/kg	<0.00543	<0.00559	<0.00562	<0.00559	NT	NT
EPN	NL	0.8	NL	NL	NL	mg/kg	<0.00559	<0.00575	<0.00578	<0.00575	NT	NT
Ethoprop	NL	NL	NL	NL	NL	mg/kg	<0.00507	<0.00522	<0.00525	<0.00522	NT	NT
Fensulfothion	NL	NL	NL	NL	NL	mg/kg	<0.0184	<0.019	<0.0191	<0.019	NT	NT
Fenthion	NL	NL	NL	NL	NL	mg/kg	<0.00663	<0.00683	<0.00686	<0.00683	NT	NT
Malathion	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00764	<0.00786	<0.0079	<0.00786	NT	NT
MCP P	NL	1600	NL	NL	NL	mg/kg	<0.4	<0.412	<0.414	<0.412	NT	NT
Merphos	NL	80	NL	NL	NL	mg/kg	<0.00588	<0.00606	<0.00608	<0.00605	NT	NT
Methyl parathion	NL	2.4	NL	NL	NL	mg/kg	<0.0073	<0.00752	<0.00755	<0.00751	NT	NT
Naled	NL	20	NL	NL	NL	mg/kg	<0.00456	<0.0047	<0.00472	<0.00469	NT	NT
Parathion	NL	160	NL	NL	NL	mg/kg	<0.00623	<0.00641	<0.00644	<0.00641	NT	NT
Phorate	NL	480	NL	NL	NL	mg/kg	<0.00514	<0.00529	<0.00531	<0.00529	NT	NT
Phosdrin	NL	16	NL	NL	NL	mg/kg	<0.0111	<0.0115	<0.0115	<0.0115	NT	NT
Prothiofos	NL	NL	NL	NL	NL	mg/kg	<0.00659	<0.00679	<0.00681	<0.00678	NT	NT
Ronnel	NL	NL	NL	NL	NL	mg/kg	<0.00477	<0.00491	<0.00493	<0.00491	NT	NT
Sulprofos	NL	4000	NL	NL	NL	mg/kg	<0.00604	<0.00622	<0.00625	<0.00622	NT	NT
TEPP	NL	NL	NL	NL	NL	mg/kg	<0.171	<0.176	<0.177	<0.176	NT	NT
Tetrachlorvinphos	NL	NL	NL	NL	NL	mg/kg	<0.00586	<0.00603	<0.00606	<0.00603	NT	NT
Tetraethyl dithiopyrophosphate	NL	2400	42.00	NL	NL	mg/kg	<0.00421	<0.00434	<0.00436	<0.00433		
Trichloronate	NL	NL	NL	NL	NL	mg/kg	<0.00724	<0.00746	<0.00749	<0.00745	NT	NT
Herbicides												
4-(chloro-2-methylphenoxy) acetic acid	NL	1600	NL	NL	NL	mg/kg	<0.483	<0.498	<0.5	<0.497	NT	NT
Dalapon, sodium salt	NL	2400	NL	NL	NL	mg/kg	<0.0123	<0.0127	<0.0127	<0.0127	NT	NT
Dicamba	NL	2400	NL	NL	NL	mg/kg	<0.0171	<0.0176	<0.0177	<0.0176	NT	NT
Dichlorophenoxy, 2,4- butyric acid, 4-	NL	800	NL	NL	NL	mg/kg	<0.0324	<0.0334	<0.0335	<0.0333	NT	NT
Dichlorophenoxyacetic acid, 2,4-	NL	800	NL	NL	NL	mg/kg	<0.00766	<0.00789	<0.00792	<0.00788	NT	NT
Dichloroprop	NL	NL	NL	NL	NL	mg/kg	<0.0267	<0.0275	<0.0276	<0.0275	NT	NT
Dinoseb	NL	80	NL	NL	NL	mg/kg	<0.0076	<0.00783	<0.00786	<0.00782	NT	NT
TP Silvex, 2,4,5-	NL	640	NL	NL	NL	mg/kg	<0.0117	<0.012	<0.0121	<0.012	NT	NT
Trichlorophenoxyacetic acid, 2,4,5-	NL	800	NL	NL	NL	mg/kg	<0.00929	<0.00957	<0.00961	<0.00956	NT	NT
OC Pesticides (Method 8081)												
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00147	<0.00152	<0.00152	<0.00152	<0.00148	<0.00144
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0425	<0.0438	<0.044	<0.0438	<0.0427	<0.0417
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.0017	<0.00175	<0.00176	<0.00175	<0.00171	<0.00167
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00168	<0.00173	<0.00174	<0.00173	<0.00168	<0.00165
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.00218	<0.00225	<0.00226	<0.00225	<0.00219	<0.00214
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	0.00249 J P	0.00201 J P	0.00657 J P	0.00549 J P	0.00291 J	<0.00163
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.00163	<0.00167	<0.00168	<0.00167	<0.00163	<0.00159
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.00175	<0.0018	<0.00181	<0.0018	<0.00175	<0.00171
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.00165	<0.0017	<0.0017	<0.0017	<0.00165	<0.00162
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00171	<0.00176	<0.00177	<0.00176	<0.00172	<0.00168
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00141	<0.00145	<0.00146	<0.00145	<0.00141	<0.00138
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.0018	<0.00185	<0.00186	<0.00185	<0.0018	<0.00177
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00168	<0.00173	<0.00174	<0.00173	<0.00168	<0.00165
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.00176	<0.00181	<0.00182	<0.00181	<0.00176	<0.00172
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00148	<0.00153	<0.00153	<0.00153	<0.00149	<0.00146
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.00175	<0.0018	<0.00181	<0.0018	<0.00175	<0.00171
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.00156	<0.00161	<0.00161	<0.00161	<0.00156	<0.00153
Iindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00158	<0.00163	<0.00164	<0.00163	<0.00159	<0.00155
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.00194	<0.002	<0.00201	<0.002	<0.00195	<0.0019
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.0393	<0.0404	<0.0406	<0.0404	<0.0394	<0.0385

Table # 1
SOIL ANALYTICAL RESULTS
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TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB32					
Laboratory Identification							L1177542-01	L1177542-02	L1177542-03	L1177542-04	L1177542-05	L1177542-06
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	5 - 6 ft	8 - 9 ft	10 - 11 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	13.7	26.8	29.5	6.51	2.35	1.810 J
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.2930 J	0.2340 J	0.2340 J	0.1430 J	0.0971 J	0.0755 J
Lead	250	NL	NL	220	3000	mg/kg	20.5	37.7	40.6	8.18	0.846	1.28
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium, Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	93.2	89.9	92.7	93	89.3	93.3
OC Pesticides (Method 8081)												
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00145	<0.0015	<0.00146	<0.00145	<0.00151	<0.00145
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0419	<0.0434	<0.0421	<0.0419	<0.0437	<0.0418
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.00167	<0.00174	<0.00168	<0.00168	<0.00175	<0.00167
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00165	<0.00171	<0.00166	<0.00166	<0.00172	<0.00165
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.00215	<0.00222	<0.00216	<0.00215	<0.00224	<0.00214
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	<0.00163	<0.00169	<0.00164	<0.00163	<0.0017	<0.00163
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.0016	<0.00166	<0.00161	<0.0016	<0.00167	<0.0016
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.00172	<0.00178	<0.00173	<0.00172	<0.00179	<0.00172
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.00162	<0.00168	<0.00163	<0.00162	<0.00169	<0.00162
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00168	<0.00175	<0.00169	<0.00169	<0.00176	<0.00168
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00138	<0.00143	<0.00139	<0.00139	<0.00144	<0.00138
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.00177	<0.00184	<0.00178	<0.00177	<0.00185	<0.00177
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00165	<0.00171	<0.00166	<0.00166	<0.00172	<0.00165
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.00173	<0.00179	<0.00174	<0.00173	<0.0018	<0.00173
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00146	<0.00151	<0.00147	<0.00146	<0.00152	<0.00146
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.00172	<0.00178	<0.00173	<0.00172	<0.00179	<0.00172
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.00153	<0.00159	<0.00154	<0.00154	<0.0016	<0.00153
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00156	<0.00161	<0.00156	<0.00156	<0.00162	<0.00155
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.00191	<0.00198	<0.00192	<0.00191	<0.00199	<0.00191
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.0386	<0.04	<0.0388	<0.0387	<0.0403	<0.0386

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Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB33						
Laboratory Identification							L1177542-07	L1177542-08	L1177542-09	L1177542-10	L1177542-11	L1177542-12	L1178820-01
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	5 - 6 ft	8 - 9 ft	10 - 11 ft	11 - 12 ft
Metals (EPA Method 6010/7471)													
Arsenic	20	24	0.67	20	2.9	mg/kg	69.1	64.9	117	52.8	40.6	1.6 J	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.2410 J	0.2060 J	0.4130 J	0.2530 J	0.1860 J	0.096 J	NT
Lead	250	NL	NL	220	3000	mg/kg	52	59.7	120	55.8	38.3	1.23	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT	NT
Other													
% Moisture	NL	NL	NL	NL	NL	%	91	91.7	91.7	92.9	92.3	92.1	89.5
OC Pesticides (Method 8081)													
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00148	<0.00147	0.00000	<0.00145	<0.00146	<0.00147	<0.00151
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0429	<0.0425	<0.0426	<0.042	<0.0423	<0.0423	<0.0436
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.00171	<0.0017	<0.0017	<0.00168	<0.00169	<0.00169	<0.00174
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00169	<0.00168	<0.00168	<0.00166	<0.00167	<0.00167	<0.00172
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.0022	<0.00218	<0.00218	<0.00215	<0.00217	<0.00217	<0.00224
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	0.0443	0.0743	0.0594	0.0794	0.0496	0.00290 J	<0.0017
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.00164	<0.00163	<0.00163	<0.0016	<0.00162	<0.00162	<0.00167
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.00176	<0.00175	<0.00175	<0.00172	<0.00173	<0.00174	<0.00179
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.00166	<0.00165	<0.00165	<0.00162	<0.00164	<0.00164	<0.00169
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00173	<0.00171	<0.00171	<0.00169	<0.0017	<0.0017	<0.00175
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00142	<0.00141	<0.00141	<0.00139	<0.0014	<0.0014	<0.00144
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.00181	<0.0018	<0.0018	<0.00178	<0.00179	<0.00179	<0.00184
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00169	<0.00168	<0.00168	<0.00166	<0.00167	<0.00167	<0.00172
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.00177	<0.00176	<0.00176	<0.00173	<0.00175	<0.00175	<0.0018
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00149	<0.00148	<0.00148	<0.00146	<0.00147	<0.00148	<0.00152
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.00176	<0.00175	<0.00175	<0.00172	<0.00173	<0.00174	<0.00179
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.00157	<0.00156	<0.00156	<0.00154	<0.00155	<0.00155	<0.0016
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00159	<0.00158	<0.00158	<0.00156	<0.00157	<0.00157	<0.00162
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.00196	<0.00194	<0.00194	<0.00192	<0.00193	<0.00193	<0.00199
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.0396	<0.0393	<0.0393	<0.0387	<0.039	<0.0391	<0.0402

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB34					
Laboratory Identification							L1177542-13	L1177542-14	L1177542-15	L1177542-16	L1177542-17	L1177542-18
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	5 - 6 ft	8 - 9 ft	10 - 11 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	35.1	44.7	8.22	3.94	1.610 J	1.850 J
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.2200 J	0.2930 J	0.1630 J	0.1420 J	<0.0795	0.1120 J
Lead	250	NL	NL	220	3000	mg/kg	39.7	43.2	15	6.78	0.502 J	1.89
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	95.4	94.9	94.2	80.7	88	92.3
OC Pesticides (Method 8081)												
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00141	<0.00142	<0.00143	<0.00167	<0.00153	<0.00146
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0409	<0.0411	<0.0414	<0.0483	<0.0443	<0.0422
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.00163	<0.00164	<0.00166	<0.00193	<0.00177	<0.00169
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00161	<0.00162	<0.00164	<0.00191	<0.00175	<0.00167
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.0021	<0.00211	<0.00212	<0.00248	<0.00227	<0.00217
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	<0.00159	<0.0016	<0.00161	<0.00188	<0.00173	<0.00165
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.00156	<0.00157	<0.00158	<0.00185	<0.00169	<0.00161
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.00168	<0.00169	<0.0017	<0.00198	<0.00182	<0.00173
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.00158	<0.00159	<0.0016	<0.00187	<0.00172	<0.00164
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00164	<0.00165	<0.00167	<0.00194	<0.00178	<0.0017
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00135	<0.00136	<0.00137	<0.0016	<0.00147	<0.0014
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.00173	<0.00174	<0.00175	<0.00204	<0.00187	<0.00179
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00161	<0.00162	<0.00164	<0.00191	<0.00175	<0.00167
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.00169	<0.0017	<0.00171	<0.00199	<0.00183	<0.00174
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00142	<0.00143	<0.00144	<0.00168	<0.00154	<0.00147
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.00168	<0.00169	<0.0017	<0.00198	<0.00182	<0.00173
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.0015	<0.00151	<0.00152	<0.00177	<0.00162	<0.00155
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00152	<0.00153	<0.00154	<0.0018	<0.00165	<0.00157
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.00186	<0.00188	<0.00189	<0.0022	<0.00202	<0.00193
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.0377	<0.0379	<0.0382	<0.0446	<0.0409	<0.039

Table # 1
SOIL ANALYTICAL RESULTS
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Federal Way, WA
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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB35					
Laboratory Identification							L1177542-19	L1177542-20	L1177542-21	L1177542-22	L1177542-23	L1177542-24
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	5 - 6 ft	8 - 9 ft	10 - 11 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	231	214	223	70	5.79	3.4
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.712	0.4770 J	0.4460 J	0.1970 J	0.0973 J	0.0970 J
Lead	250	NL	NL	220	3000	mg/kg	185	187	164	57.9	3.71	2.22
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	89.4	92.4	91.3	92.9	92.8	92.3
OC Pesticides (Method 8081)												
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00151	<0.00146	<0.00148	<0.00145	<0.00145	<0.00146
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0436	<0.0422	<0.0427	<0.042	<0.042	<0.0423
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.00175	<0.00169	<0.00171	<0.00168	<0.00168	<0.00169
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00172	<0.00167	<0.00169	<0.00166	<0.00166	<0.00167
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.00224	<0.00216	<0.00219	<0.00215	<0.00215	<0.00217
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	<0.0017	<0.00165	<0.00166	<0.00164	<0.00164	<0.00165
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.00167	<0.00161	<0.00163	<0.0016	<0.0016	<0.00161
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.00179	<0.00173	<0.00175	<0.00172	<0.00172	<0.00173
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.00169	<0.00163	<0.00165	<0.00163	<0.00163	<0.00164
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00176	<0.0017	<0.00172	<0.00169	<0.00169	<0.0017
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00144	<0.0014	<0.00141	<0.00139	<0.00139	<0.0014
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.00185	<0.00179	<0.00181	<0.00178	<0.00178	<0.00179
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00172	<0.00167	<0.00169	<0.00166	<0.00166	<0.00167
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.0018	<0.00174	<0.00176	<0.00173	<0.00173	<0.00174
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00152	<0.00147	<0.00149	<0.00146	<0.00146	<0.00147
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.00179	<0.00173	<0.00175	<0.00172	<0.00172	<0.00173
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.0016	<0.00155	<0.00157	<0.00154	<0.00154	<0.00155
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00162	<0.00157	<0.00159	<0.00156	<0.00156	<0.00157
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.00199	<0.00193	<0.00195	<0.00192	<0.00192	<0.00193
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.0403	<0.039	<0.0394	<0.0388	<0.0388	<0.039

Table # 1
SOIL ANALYTICAL RESULTS
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Federal Way, WA
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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB36					
Laboratory Identification							L1177542-25	L1177542-26	L1177542-27	L1177542-28	L1177542-29	L1177542-30
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	5 - 6 ft	8 - 9 ft	10 - 11 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	19.8	4.71	3.55	5.53	6.82	1.850 J
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.1770 J	0.1130 J	0.1170 J	0.1800 J	0.2990 J	<0.0786
Lead	250	NL	NL	220	3000	mg/kg	34.6	16.3	15.9	13.5	17.8	0.973
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	94.3	89.2	90.7	81.8	82.6	89
OC Pesticides (Method 8081)												
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00143	<0.00151	<0.00149	<0.00165	<0.00163	<0.00152
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0414	<0.0437	<0.043	<0.0477	<0.0472	<0.0438
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.00165	<0.00175	<0.00172	<0.00191	<0.00189	<0.00175
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00163	<0.00173	<0.0017	<0.00188	<0.00186	<0.00173
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.00212	<0.00224	<0.0022	<0.00245	<0.00242	<0.00225
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	<0.00161	<0.0017	<0.00167	<0.00186	<0.00184	<0.00171
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.00158	<0.00167	<0.00164	<0.00182	<0.0018	<0.00167
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.0017	<0.00179	<0.00176	<0.00196	<0.00194	<0.0018
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.0016	<0.00169	<0.00166	<0.00185	<0.00183	<0.0017
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00166	<0.00176	<0.00173	<0.00192	<0.0019	<0.00176
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00137	<0.00145	<0.00142	<0.00158	<0.00156	<0.00145
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.00175	<0.00185	<0.00182	<0.00202	<0.002	<0.00185
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00163	<0.00173	<0.0017	<0.00188	<0.00186	<0.00173
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.00171	<0.0018	<0.00177	<0.00197	<0.00195	<0.00181
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00144	<0.00152	<0.0015	<0.00166	<0.00165	<0.00153
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.0017	<0.00179	<0.00176	<0.00196	<0.00194	<0.0018
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.00152	<0.0016	<0.00158	<0.00175	<0.00173	<0.00161
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00154	<0.00163	<0.0016	<0.00177	<0.00175	<0.00163
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.00189	<0.002	<0.00196	<0.00218	<0.00215	<0.002
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.0382	<0.0404	<0.0397	<0.044	<0.0436	<0.0404

Table # 1
SOIL ANALYTICAL RESULTS
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Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB37					
Laboratory Identification							L1177542-31	L1177542-32	L1177542-33	L1177542-34	L1177542-35	L1177542-36
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	5 - 6 ft	8 - 9 ft	10 - 11 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	1.200 J	4.15	4.39	2.64	3.81	2.130 J
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.0951 J	0.2050 J	0.1560 J	0.1310 J	0.1530 J	0.0961 J
Lead	250	NL	NL	220	3000	mg/kg	1.8	4.88	6.32	2.46	0.885	2.13
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	89	93.9	93.6	93.7	96.1	93.1
OC Pesticides (Method 8081)												
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00152	<0.00144	<0.00144	<0.00144	<0.0014	<0.00145
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0438	<0.0415	<0.0417	<0.0416	<0.0406	<0.0419
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.00175	<0.00166	<0.00167	<0.00166	<0.00162	<0.00168
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00173	<0.00164	<0.00165	<0.00164	<0.0016	<0.00165
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.00225	<0.00213	<0.00214	<0.00213	<0.00208	<0.00215
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	<0.00171	<0.00162	<0.00162	<0.00162	<0.00158	<0.00163
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.00167	<0.00159	<0.00159	<0.00159	<0.00155	<0.0016
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.0018	<0.0017	<0.00171	<0.00171	<0.00166	<0.00172
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.0017	<0.00161	<0.00161	<0.00161	<0.00157	<0.00162
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00176	<0.00167	<0.00168	<0.00168	<0.00163	<0.00169
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00145	<0.00137	<0.00138	<0.00138	<0.00134	<0.00139
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.00185	<0.00176	<0.00176	<0.00176	<0.00172	<0.00177
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00173	<0.00164	<0.00165	<0.00164	<0.0016	<0.00165
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.00181	<0.00172	<0.00172	<0.00172	<0.00168	<0.00173
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00153	<0.00145	<0.00145	<0.00145	<0.00142	<0.00146
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.0018	<0.0017	<0.00171	<0.00171	<0.00166	<0.00172
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.00161	<0.00152	<0.00153	<0.00153	<0.00149	<0.00154
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00163	<0.00154	<0.00155	<0.00155	<0.00151	<0.00156
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.002	<0.0019	<0.0019	<0.0019	<0.00185	<0.00191
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.0404	<0.0383	<0.0385	<0.0384	<0.0375	<0.0387

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB38								
Laboratory Identification							L1177542-37	L1177542-38	L1177542-67	L1178820-02	L1178820-03	L1177542-39	L1178820-04	L1177542-40	L1177542-41
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	3 - 3.5 ft	4.5 - 5 ft	5 - 6 ft	6 - 7 ft	8 - 9 ft	10 - 11 ft
Metals (EPA Method 6010/7471)															
Arsenic	20	24	0.67	20	2.9	mg/kg	65.1	19.1	40	22.8	20.7	36.4	36.9	0.953 J	2.1 J
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.3250 J	0.2130 J	0.3020 J	NT	NT	0.1200 J	NT	0.0815 J	<0.0761
Lead	250	NL	NL	220	3000	mg/kg	63.4	26.1	33	NT	NT	30.3	NT	0.401 J	1.27
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium, Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium, Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
Other															
% Moisture	NL	NL	NL	NL	NL	%	89.2	89.3	91.6	88.7	91.8	87.2	90.6	90.8	92
OC Pesticides (Method 8081)															
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00151	<0.00151	<0.00147	NT	NT	<0.00155	NT	<0.00149	<0.00147
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0437	<0.0437	<0.0426	NT	NT	<0.0447	NT	<0.043	<0.0424
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.00175	<0.00175	<0.0017	NT	NT	<0.00179	NT	<0.00172	<0.0017
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00173	<0.00172	<0.00168	NT	NT	<0.00177	NT	<0.0017	<0.00167
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.00224	<0.00224	<0.00218	NT	NT	<0.00229	NT	<0.0022	<0.00217
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	<0.0017	<0.0017	<0.00166	NT	NT	<0.00174	NT	<0.00167	<0.00165
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.00167	<0.00167	<0.00163	NT	NT	<0.00171	NT	<0.00164	<0.00162
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.00179	<0.00179	<0.00175	NT	NT	<0.00184	NT	<0.00176	<0.00174
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.00169	<0.00169	<0.00165	NT	NT	<0.00173	NT	<0.00166	<0.00164
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00176	<0.00176	<0.00171	NT	NT	<0.0018	NT	<0.00173	<0.00171
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00145	<0.00144	<0.00141	NT	NT	<0.00148	NT	<0.00142	<0.0014
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.00185	<0.00185	<0.0018	NT	NT	<0.00189	NT	<0.00182	<0.00179
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00173	<0.00172	<0.00168	NT	NT	<0.00177	NT	<0.0017	<0.00167
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.00181	<0.0018	<0.00176	NT	NT	<0.00185	NT	<0.00177	<0.00175
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00152	<0.00152	<0.00148	NT	NT	<0.00156	NT	<0.0015	<0.00148
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.00179	<0.00179	<0.00175	NT	NT	<0.00184	NT	<0.00176	<0.00174
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.0016	<0.0016	<0.00156	NT	NT	<0.00164	NT	<0.00157	<0.00155
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00163	<0.00162	<0.00158	NT	NT	<0.00166	NT	<0.0016	<0.00158
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.002	<0.00199	<0.00194	NT	NT	<0.00204	NT	<0.00196	<0.00193
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.0404	<0.0403	<0.0393	NT	NT	<0.0413	NT	<0.0396	<0.0391

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB39					
Laboratory Identification							L1177542-42	L1177542-43	L1177542-66	L1177542-45	L1177542-46	L1177542-47
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	5 - 6 ft	8 - 9 ft	4 - 4.5 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	11.6	6.59	5.92	3.36	3.1	3.58
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.1750 J	0.1410 J	0.1400 J	0.1050 J	<0.0729	<0.0802
Lead	250	NL	NL	220	3000	mg/kg	22	13	13.4	4.22	4.16	5.18
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	87.8	88.8	89.2	89.4	96	87.3
OC Pesticides (Method 8081)												
Aldrin	NL	2.4	0.06	0.17	0.003	mg/kg	<0.00154	<0.00152	<0.00151	<0.00151	<0.00141	<0.00155
Chlordane	NL	40	2.90	1	2.10	mg/kg	<0.0444	<0.0439	<0.0437	<0.0436	<0.0406	<0.0447
DDD	NL	2.4	4.20	NL	0.34	mg/kg	<0.00178	<0.00176	<0.00175	<0.00174	<0.00163	<0.00179
DDE	NL	24	2.90	NL	0.45	mg/kg	<0.00175	<0.00173	<0.00173	<0.00172	<0.0016	<0.00176
DDT	3	40.00	2.90	NL	3.5	mg/kg	<0.00228	<0.00225	<0.00224	<0.00224	<0.00208	<0.00229
Dieldrin	NL	4	0.06	0.17	0.003	mg/kg	<0.00173	<0.00171	<0.0017	<0.0017	<0.00158	<0.00174
Endosulfan I	NL	NL	NL	NL	NL	mg/kg	<0.0017	<0.00168	<0.00167	<0.00167	<0.00155	<0.00171
Endosulfan II	NL	NL	NL	NL	NL	mg/kg	<0.00182	<0.0018	<0.00179	<0.00179	<0.00167	<0.00183
Endosulfan sulfate	NL	480	NL	NL	NL	mg/kg	<0.00172	<0.0017	<0.00169	<0.00169	<0.00157	<0.00173
Endrin	NL	24	NL	0.4	0.44	mg/kg	<0.00179	<0.00177	<0.00176	<0.00176	<0.00164	<0.0018
Endrin aldehyde	NL	NL	NL	NL	NL	mg/kg	<0.00147	<0.00145	<0.00145	<0.00144	<0.00134	<0.00148
Endrin ketone	NL	NL	NL	NL	NL	mg/kg	<0.00188	<0.00186	<0.00185	<0.00185	<0.00172	<0.00189
Heptachlor	NL	40	0.22	NL	0.038	mg/kg	<0.00175	<0.00173	<0.00173	<0.00172	<0.0016	<0.00176
Heptachlor epoxide	NL	1	0.11	NL	0.08	mg/kg	<0.00183	<0.00181	<0.0018	<0.0018	<0.00168	<0.00184
Hexachlorocyclohexane, alpha	NL	640	0.16	NL	0.001	mg/kg	<0.00155	<0.00153	<0.00152	<0.00152	<0.00142	<0.00156
Hexachlorocyclohexane, beta	NL	NL	0.56	NL	0.0023	mg/kg	<0.00182	<0.0018	<0.00179	<0.00179	<0.00167	<0.00183
Hexachlorocyclohexane, delta	NL	NL	NL	NL	NL	mg/kg	<0.00163	<0.00161	<0.0016	<0.0016	<0.00149	<0.00164
lindane	0.01	24.00	0.91	NL	0.0062	mg/kg	<0.00165	<0.00163	<0.00162	<0.00162	<0.00151	<0.00166
Methoxychlor	NL	400	NL	NL	64.00	mg/kg	<0.00203	<0.002	<0.00199	<0.00199	<0.00185	<0.00204
Toxaphene	NL	7.2	0.91	NL	1.5	mg/kg	<0.041	<0.0405	<0.0403	<0.0403	<0.0375	<0.0412

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB40					
Laboratory Identification							L1178043-01	L1178043-02	L1178043-03	L1178043-04	L1178043-05	L1178043-06
Sample Date							1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020
Depth Range							2 - 3 ft	4 - 6 ft	8 - 9 ft	10 - 11 ft	11 - 12 ft	16 - 17 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	<0.091	<0.0843	0.856	0.4880 J	0.4080 J	0.2710 J
Lead	250	NL	NL	220	3000	mg/kg	14.6	25.6	319	228	186	113
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	76.9	83	84.1	84.9	76.9	77.9

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB41					
Laboratory Identification							L1178043-07	L1178043-08	L1178043-09	L1178043-10	L1178043-11	L1178043-12
Sample Date							1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020
Depth Range							2 - 3 ft	4 - 6 ft	8 - 9 ft	10 - 11 ft	11 - 12 ft	16 - 17 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	<0.0745	<0.0756	<0.0768	<0.0783	0.1580 J	0.1060 J
Lead	250	NL	NL	220	3000	mg/kg	8.02	1.55	13	16.3	58.5	93.6
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	94	92.6	91.1	89.4	88.3	82.1

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SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB42					
Laboratory Identification							L1178043-13	L1178043-14	L1178043-15	L1178043-16	L1178043-17	L1178043-18
Sample Date							1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020
Depth Range							2 - 3 ft	4 - 6 ft	8 - 9 ft	10 - 11 ft	11 - 12 ft	16 - 17 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	<0.0847	<0.0816	<0.0801	0.3160 J	<0.0809	0.3400 J
Lead	250	NL	NL	220	3000	mg/kg	6.35	12.1	8.89	49.6	9.46	81.3
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	82.7	85.8	87.4	87.1	86.5	82.3

Table # 1
SOIL ANALYTICAL RESULTS
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Lation Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB43					
Laboratory Identification							L1178043-19	L1178043-20	L1178043-21	L1178043-22	L1178043-23	L1178043-24
Sample Date							1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020
Depth Range							2 - 3 ft	4 - 6 ft	8 - 9 ft	10 - 11 ft	11 - 12 ft	16 - 17 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	0.4640 J	0.1710 J	0.389 J	0.3190 J	0.4670 J	0.24 J
Lead	250	NL	NL	220	3000	mg/kg	170	57.7	66.8	41.6	104	12.5
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	83.8	86.1	83.4	83.9	87.3	77.7

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Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB-44				SB-45	
Laboratory Identification							L1177542-48	L1177542-49	L1177542-50	L1177542-51	L1178043-25	L1178043-26
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/8/2020	1/8/2020
Depth Range							2 - 3 ft	6 - 8 ft	9 - 11 ft	15 - 16 ft	0 - 1 ft	1 - 2 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT	6.69	8.23
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	10.9	11.9	33.5	9.68	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	92.8	92.2	73.1	77.3	90.5	92.6
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	0.0375	0.0495	0.0855	0.07 J3	NT	NT
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00223	<0.00317	<0.00301	<0.00278	NT	NT
Benzene	0.03	320	18	NL	0.027	mg/kg	0.00050 J	0.001020 J	0.00414	0.00252	NT	NT
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00123	<0.00175	<0.00167	<0.00153	NT	NT
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.000926	<0.00132	<0.00125	<0.00115	NT	NT
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00703	<0.00999	<0.00949	<0.00874	NT	NT
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00435	<0.00618	<0.00587	<0.00541	NT	NT
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00451	<0.00641	<0.00609	<0.00561	NT	NT
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00297	<0.00423	<0.00401	<0.0037	NT	NT
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00182	<0.00259	<0.00246	<0.00227	NT	NT
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00127	<0.0018	<0.00171	<0.00158	NT	NT
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000673	<0.000957	<0.000909	<0.000837	NT	NT
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00127	<0.0018	<0.00171	<0.00158	NT	NT
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000488	<0.000693	<0.000658	0.000657 J	NT	NT
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00163	<0.00232	<0.00221	<0.00203	NT	NT
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00108	<0.00154	<0.00146	<0.00134	NT	NT
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00133	<0.00189	<0.00179	<0.00165	NT	NT
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.00101	<0.00144	<0.00137	<0.00126	NT	NT
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00274	0.00568 J	<0.0037	0.0392	NT	NT
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.00599	<0.00852	<0.00809	<0.00745	NT	NT
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000529	<0.000752	<0.000714	<0.000658	NT	NT
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.0017	<0.00242	<0.0023	<0.00212	NT	NT
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.002	<0.00284	<0.0027	<0.00248	NT	NT
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00231	<0.00329	<0.00313	<0.00288	NT	NT
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000961	<0.00137	<0.0013	<0.0012	NT	NT
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.000676	<0.000961	<0.000912	<0.00084	NT	NT
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000558	<0.000794	<0.000754	<0.000694	NT	NT
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000587	<0.000835	<0.000793	<0.000731	NT	NT
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000811	<0.00115	<0.00109	<0.00101	NT	NT
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00168	<0.00239	<0.00227	<0.00209	NT	NT
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00149	<0.00212	<0.00201	<0.00186	NT	NT
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00206	<0.00292	<0.00278	<0.00256	NT	NT
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000932	<0.00132	<0.00126	<0.00116	NT	NT
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000822	<0.00117	<0.00111	<0.00102	NT	NT
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000797	<0.00113	<0.00108	<0.000991	NT	NT
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.0018	<0.00256	<0.00243	<0.00224	NT	NT
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000411	<0.000585	<0.000555	<0.000512	NT	NT
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000623	0.0111	0.002970 J	0.001460 J	NT	NT
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000617	<0.000877	<0.000833	<0.000767	NT	NT
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0149	<0.0212	<0.0201	<0.0186	NT	NT
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.0395 B	0.0472 B	0.1420 B	0.0208 J	NT	NT
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0117	<0.0167	<0.0159	<0.0146	NT	NT
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00117	<0.00167	<0.00159	<0.00146	NT	NT
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	0.0092 J	<0.0111	0.0114 J	<0.0097	NT	NT
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000347	<0.000493	<0.000468	<0.000431	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00367	<0.00521	<0.00495	<0.00456	NT	NT
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00139	<0.00197	<0.00187	0.00222 J	NT	NT
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00321	<0.00456	<0.00433	<0.00399	NT	NT
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000587	<0.000835	<0.000793	<0.000731	NT	NT
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000458	<0.000652	<0.000619	<0.00057	NT	NT
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000822	<0.00117	<0.00111	<0.00102	NT	NT
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00430 J	0.0682	0.0332	0.00833	NT	NT
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000793	<0.00113	<0.00107	<9.869999E-	NT	NT
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000734	<0.00104	<0.000992	<0.000913	NT	NT
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00566	<0.00805	<0.00765	<0.00704	NT	NT
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000323	<0.000459	<0.000436	<0.000402	NT	NT
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.00104	<0.00148	<0.0014	<0.00129	NT	NT
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.00047	<0.000668	<0.000635	<0.000585	NT	NT
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000587	<0.000835	<0.000793	<0.000731	NT	NT
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00599	<0.00852	<0.00809	<0.00745	NT	NT
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00135	<0.00192	0.00857	0.00292 J	NT	NT
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	0.00301 B J	0.00563 B J	0.01740 B	0.0045 J	NT	NT
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00127	<0.0018	0.00832	<0.00158	NT	NT
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000802	<0.00114	<0.00108	<0.000998	NT	NT
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00562	0.0438	0.0107	<0.00699	NT	NT

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB-46					
Laboratory Identification							L1178043-27	L1178043-28 L1180378-12	L1178043-29	L1178043-30	L1178043-31	L1178043-32
Sample Date							1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020
Depth Range							0 - 1 ft	1 - 2 ft	9 - 10 ft	14 - 15 ft	16 - 18 ft	20 - 22 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.914	<0.974	<1	<0.994	<1.09	<0.92
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	--	--	--	--	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	29.1 J	<143	<15.7	10.5 J	8.12	4.14 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	318	1910	131	98.9	59.4	24.2
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	92.7	93.3	84.6	85.3	90.3	92.1
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	0.0457	0.0503	0.0307	0.0349	<0.0176	0.0230 J
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00205	<0.00218	<0.00225	<0.00223	<0.00244	<0.00206
Benzene	0.03	320	18	NL	0.027	mg/kg	0.000725 J	0.000544 J	0.00127	0.000814 J	0.000610 J	<0.000434
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00113	<0.0012	<0.00124	<0.00123	<0.00135	<0.00114
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.00085	<0.000904	<0.000932	<0.000924	<0.00101	<0.000856
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.00645	<0.00686	<0.00707	<0.00701	<0.00768	<0.00649
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.00399	<0.00424	<0.00438	<0.00434	<0.00475	<0.00402
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.00414	<0.0044	<0.00454	<0.0045	<0.00493	<0.00417
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.00273	<0.0029	<0.00299	<0.00297	<0.00325	<0.00275
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00167	<0.00178	<0.00183	<0.00182	<0.00199	<0.00168
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00116	<0.00124	<0.00128	<0.00127	<0.00139	<0.00117
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.000618	<0.000657	<0.000678	<0.000672	<0.000736	<0.000622
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00116	<0.00124	<0.00128	<0.00127	<0.00139	<0.00117
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.000448	<0.000476	<0.000491	<0.000487	<0.000533	<0.000451
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.0015	<0.00159	<0.00164	<0.00163	<0.00179	<0.00151
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.000992	<0.00105	<0.00109	<0.00108	<0.00118	<0.000999
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.00122	<0.0013	<0.00134	<0.00132	<0.00145	<0.00123
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.000931	<0.00099	<0.00102	<0.00101	<0.00111	<0.000937
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.00251	<0.00267	0.00776	0.0571	0.0635	0.0131
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.0055	<0.00585	<0.00603	<0.00598	<0.00655	<0.00554
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.000485	<0.000516	<0.000532	<0.000528	<0.000578	<0.000489
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00156	<0.00166	<0.00171	<0.0017	<0.00186	<0.00157
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00183	<0.00195	<0.00201	<0.00199	<0.00218	<0.00185
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00213	<0.00226	<0.00233	<0.00231	<0.00253	<0.00214
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.000882	<0.000938	<0.000967	<0.000959	<0.00105	<0.000888
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.00062	<0.000659	<0.00068	<0.000674	<0.000739	<0.000624
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.000512	<0.000545	<0.000562	<0.000557	<0.00061	<0.000516
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.000539	<0.000573	<0.000591	<0.000586	<0.000642	<0.000543
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.000744	<0.000791	<0.000816	<0.000809	<0.000886	<0.000749
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00154	<0.00164	<0.00169	<0.00168	<0.00184	<0.00155
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00137	<0.00146	<0.0015	<0.00149	<0.00163	<0.00138
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00189	<0.00201	<0.00207	<0.00205	<0.00225	<0.0019
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.000855	<0.000909	<0.000938	<0.00093	<0.00102	<0.000861
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.000755	<0.000803	<0.000828	<0.000821	<0.000899	<0.00076
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.000731	<0.000777	<0.000802	<0.000795	<0.000871	<0.000736
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00165	<0.00175	<0.00181	<0.00179	<0.00197	<0.00166
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000378	<0.000401	<0.000414	<0.00041	<0.00045	<0.00038
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	0.000660 J	0.002240 J	0.000702 J	<0.000621	<0.000681	0.001370 J
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000566	<0.000602	<0.000621	<0.000615	<0.000674	

Methylnaphthalene, 2-	NL	320	NL	NL	NL	mg/kg	NT	0.00223 J	NT	NT	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	0.00261 J	NT	NT	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	0.00918	NT	NT	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	0.0124	NT	NT	NT	NT
PCBs (EPA Method 8082)												
Aroclor 1016	NL	5.6	14.00	NL	NL	mg/kg	NT	<0.00376	NT	NT	NT	NT
Aroclor 1221	NL	NL	NL	NL	NL	mg/kg	NT	<0.00575	NT	NT	NT	NT
Aroclor 1232	NL	NL	NL	NL	NL	mg/kg	NT	<0.00447	NT	NT	NT	NT
Aroclor 1242	NL	NL	NL	NL	NL	mg/kg	NT	<0.0034	NT	NT	NT	NT
Aroclor 1248	NL	NL	NL	NL	NL	mg/kg	NT	<0.00337	NT	NT	NT	NT
Aroclor 1254	NL	1.6	0.50	NL	NL	mg/kg	NT	0.00855 J	NT	NT	NT	NT
Aroclor 1260	NL	NL	0.50	NL	NL	mg/kg	NT	<0.0053	NT	NT	NT	NT

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB47		SB48		SB49	
Laboratory Identification							L1177542-52	L1177542-53	L1177542-54	L1177542-55	L1177542-56	L1177542-57
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.895	<0.893	1.7 J	<0.902	<0.944	1.27 J
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	--	--	--	--	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	<140	3.9 J	<144	<70.8	<74.8	<70.6
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1740	36	1840	500 J	1100	618
Other												
% Moisture	NL	NL	NL	NL	NL	%	94.7	94.9	92.6	94	89.8	94.2

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SB50		SB51		SB52	
Laboratory Identification							L1177542-58 L1180378-10	L1177542-59	L1177542-60	L1177542-61	L1177542-62	L1177542-63
Sample Date							1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020
Depth Range							0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.922	1.08 J	<0.905	<1.66	0.936 J	1.010 J
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	--	--	--	--	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	143.0 J	41.8	292	49.7 J	139 J	176
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1110	78	1670	415	1430	743
Other												
% Moisture	NL	NL	NL	NL	NL	%	91.9	90.9	93.7	87.5	94.9	94.5
PAHs (EPA Method 8270)												
Acenaphthene	mg/kg	NL	4800	NL	NL	98	<0.000653	NT	NT	NT	NT	NT
Acenaphthylene	mg/kg	NL	NL	NL	NL	NL	<0.000653	NT	NT	NT	NT	NT
Anthracene	mg/kg	NL	24000	NL	NL	2300	0.001310 J	NT	NT	NT	NT	NT
Benz-a-anthracene	mg/kg	NL	NL	NL	NL	NL	0.0175	NT	NT	NT	NT	NT
Benzo-a-pyrene	mg/kg	0.1	24	0.19	30	3.9	0.0364	NT	NT	NT	NT	NT
Benzo-b-fluoranthene	mg/kg	NL	NL	NL	NL	NL	<0.000653	NT	NT	NT	NT	NT
Benzo-g,h,i-perylene	mg/kg	NL	NL	NL	NL	NL	0.0145	NT	NT	NT	NT	NT
Benzo-k-fluoranthene	mg/kg	NL	NL	NL	NL	NL	<0.000653	NT	NT	NT	NT	NT
Chloronaphthalene, 2-	mg/kg	NL	6400	NL	NL	NL	<0.00218	NT	NT	NT	NT	NT
Chrysene	mg/kg	NL	NL	NL	NL	NL	0.0447	NT	NT	NT	NT	NT
Dibenz-a,h-anthracene	mg/kg	NL	NL	NL	NL	NL	<0.000653	NT	NT	NT	NT	NT
Fluoranthene	mg/kg	NL	3200	NL	NL	630	0.00978	NT	NT	NT	NT	NT
Fluorene	mg/kg	NL	3200	NL	NL	100	0.000931 J	NT	NT	NT	NT	NT
Indeno-1,2,3-cd-pyrene	mg/kg	NL	NL	NL	NL	NL	<0.000653	NT	NT	NT	NT	NT
Methylnaphthalene, 1-	mg/kg	NL	5600	34	NL	NL	0.00264 J	NT	NT	NT	NT	NT
Methylnaphthalene, 2-	mg/kg	NL	320	NL	NL	NL	0.00222 J	NT	NT	NT	NT	NT
Naphthalene	mg/kg	5	1600	NL	NL	4.5	0.00230 J	NT	NT	NT	NT	NT
Phenanthrene	mg/kg	NL	NL	NL	NL	NL	0.0152	NT	NT	NT	NT	NT
Pyrene	mg/kg	NL	2400	NL	NL	650	0.0336	NT	NT	NT	NT	NT
PCBs (EPA Method 8082)												
Aroclor 1016	NL	5.6	14.00	NL	NL	mg/kg	<0.00381	NT	NT	NT	NT	NT
Aroclor 1221	NL	NL	NL	NL	NL	mg/kg	<0.00584	NT	NT	NT	NT	NT
Aroclor 1232	NL	NL	NL	NL	NL	mg/kg	<0.00454	NT	NT	NT	NT	NT
Aroclor 1242	NL	NL	NL	NL	NL	mg/kg	<0.00346	NT	NT	NT	NT	NT
Aroclor 1248	NL	NL	NL	NL	NL	mg/kg	<0.00343	NT	NT	NT	NT	NT
Aroclor 1254	NL	1.6	0.50	NL	NL	mg/kg	0.00971 J	NT	NT	NT	NT	NT
Aroclor 1260	NL	NL	0.50	NL	NL	mg/kg	<0.00538	NT	NT	NT	NT	NT

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Laboratory Identification							L1177542-64	L1177542-65	L1178043-33	L1178043-34	L1178043-35	L1178043-36	L1178043-37	L1178043-38
Sample Date							1/7/2020	1/7/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020
Depth Range							0 - 1 ft	1 - 2 ft	2 - 3 ft	4 - 6 ft	8 - 9 ft	10 - 11 ft	11 - 12 ft	16 - 17 ft
Metals (EPA Method 6010/7471)														
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	0.2530 J	0.1700 J	0.1430 J	0.4120 J	0.8	0.61
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	7.75	2.28	2.07	32.2	91.2	63.3
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT
Hydrocarbon (NWTPHGx and NWTPHDx)														
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	2.02 J	1.220 J	NT	NT	NT	NT	NT	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	--	NT	NT	NT	NT	NT	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	185.0 J	53.8 J	NT	NT	NT	NT	NT	NT
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1420	459	NT	NT	NT	NT	NT	NT
Other														
% Moisture	NL	NL	NL	NL	NL	%	94.3	90.3	92	92.2	91.9	88.8	88	83.1

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Laboratory Identification							L1178043-39	L1178043-40	L1178043-41	L1178043-42	L1178043-43	L1178043-44
Sample Date							1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020
Depth Range							0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	6.37	8.6	2.27	3.45	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	NT	NT	NT	NT	<0.909	<1.12
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	--	--	--	--	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	NT	NT	NT	NT	81.3 J	15.50 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	NT	NT	NT	NT	1120	147
Other												
% Moisture	NL	NL	NL	NL	NL	%	92.5	87.6	91.1	92.4	93.3	94

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Laboratory Identification							L1178043-39	L1178043-40	L1178849-05	L1178043-41 L1178849-03	L1178043-42 L1178849-04	L1178849-06
Sample Date							1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020	1/8/2020
Depth Range							0 - 1 ft	1 - 2 ft	3 - 4 ft	0 - 1 ft	1 - 2 ft	3 - 4 ft
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	34.6	47.7	4.03	17.1	13.1	3.92
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.979	<0.941	NT	<0.925	<1.02	NT
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	--	NT	--	--	NT
Diesel range organics	2000	NL	NL	460	NL	mg/kg	127.0 J	15.9 J	NT	223	135.0 J	NT
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1310	122	NT	1380	885	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	90.1	91.1	79.1	93.4	92.7	91.1

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Laboratory Identification							L1178043-49	L1178043-50	L1178043-51	L1178043-52
Sample Date							1/8/2020	1/8/2020	1/8/2020	1/8/2020
Depth Range							0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Metals (EPA Method 6010/7471)										
Arsenic	20	24	0.67	20	2.9	mg/kg	NT	NT	NT	NT
Barium	NL	16000	NL	1250	1600	mg/kg	NT	NT	NT	NT
Cadmium	2	8	NL	25	0.69	mg/kg	NT	NT	NT	NT
Lead	250	NL	NL	220	3000	mg/kg	NT	NT	NT	NT
Mercury	2	NL	NL	9	2.1	mg/kg	NT	NT	NT	NT
Selenium	NL	400	NL	0.8	5.2	mg/kg	NT	NT	NT	NT
Silver	NL	400	NL	NL	14	mg/kg	NT	NT	NT	NT
Total Chromium	NL	NL	NL	42	NL	mg/kg	NT	NT	NT	NT
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT
Hydrocarbon (NWTPHGx and NWTPHDx)										
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	<0.917	<0.914	<0.941	<0.908
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	--	--	--	--
Diesel range organics	2000	NL	NL	460	NL	mg/kg	205 J	<71.7	79.0 J	119.0 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	1860	500 J	1170	1260
Other										
% Moisture	NL	NL	NL	NL	NL	%	92.4	92.7	90.1	93.3

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Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	BAY 1		BAY 1 SUMP	BAY 1 SUMP	BAY 1 SUMP	BAY 1 SUMP
							SUMP BASE		E SIDEWALL	N SIDEWALL	S SIDEWALL	W SIDEWALL
Laboratory Identification							L1184753-03	L1187323-02	L1184753-07 L1187323-04	L1187323-03	L1184753-05	L1184753-06
Sample Date							1/29/2020		1/29/2020	1/29/2020	1/29/2020	1/29/2020
Depth Range							4 ft		4 ft	4 ft	4 ft	4 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	-	NT	-	-	-	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	9.46	NT	2.02 J	<1	0.970 J	<0.955
Diesel range organics	2000	NL	NL	460	NL	mg/kg	39.9	NT	14.1	85.4	14.3	4.9
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	80.6	NT	51.2	187	49.4	11.00 J
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	8.66	NT	3.8	9.07	3.4	2.61
Barium	NL	16000	NL	1250	1600	mg/kg	76.3	NT	86.2	82.9	77	58.5
Cadmium	2	8	NL	25	0.69	mg/kg	<0.0935	NT	<0.0817	<0.0829	<0.0778	<0.0789
Lead	250	NL	NL	220	3000	mg/kg	101	NT	239	97.4	212	8.59
Mercury	2	NL	NL	9	2.1	mg/kg	0.03010 J	NT	0.02530 J	0.02230 J	0.02750 J	0.01630 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.828	<0.254	<0.724	<0.734	<0.689	<0.699
Silver	NL	400	NL	NL	14	mg/kg	<0.016	NT	<0.14	<0.142	<0.133	<0.135
Total Chromium	NL	NL	NL	42	NL	mg/kg	44.2	NT	76.9	41.9	73.9	27.6
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	18.9	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	58	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	74.9	74.9	85.7	84.4	90	88.7
SVOCs (EPA Method 8270)												
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	NT	<0.0076	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00795	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	NT	<0.00749	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00507	NT	NT
Benzidine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	NT	<0.0755	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	NT	<0.00649	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00823	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00854	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00689	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00912	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	NT	<0.0106	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	NT	0.118 J	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0135	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	NT	<0.0122	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	NT	<0.00565	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	NT	<0.00757	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	NT	<0.00984	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00743	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00657	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00972	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	NT	<0.094	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	NT	<0.00884	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	NT	<0.00818	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	NT	<0.0558	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0064	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	NT	<0.0129	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	NT	<0.147	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	NT	<0.116	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	NT	<0.00719	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	NT	<0.00873	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	NT	<0.0107	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	NT	0.00642 J	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	NT	<0.00808	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	NT	<0.0101	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	NT	<0.0695	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	NT	<0.0159	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00914	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	NT	<0.00618	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	NT	<0.0105	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	NT	<0.00823	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0154	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0622	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	NT	<0.0766	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	NT	<0.0107	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	NT	<0.107	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	NT	<0.0569	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	0.0184 J	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	NT	<0.00823	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	NT	<0.0146	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	NT	NT	<0.00923	NT	NT
VOAs (EPA Method 8260)												
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0183	NT	0.174	<0.0162	<0.0152	<0.0154
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00254	NT	<0.0			

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Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	BAY 1 SUMP BASE		BAY 1 SUMP E SIDEWALL	BAY 1 SUMP N SIDEWALL	BAY 1 SUMP S SIDEWALL	BAY 1 SUMP W SIDEWALL
Laboratory Identification							L1184753-03	L1187323-02	L1184753-07 L1187323-04	L1184753-04 L1187323-03	L1184753-05	L1184753-06
Sample Date							1/29/2020		1/29/2020	1/29/2020	1/29/2020	1/29/2020
Depth Range							4 ft		4 ft	4 ft	4 ft	4 ft
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00204	NT	<0.00496	<0.00181	<0.0017	<0.00172
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.000468	NT	<0.00114	<0.000415	<0.000389	<0.000395
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.000708	NT	0.00405 J	<0.000628	<0.000589	<0.000597
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000701	NT	<0.0017	<0.000622	<0.000583	<0.000592
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.017	NT	<0.0412	<0.015	<0.0141	<0.0143
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	<0.0167	NT	0.0408 B J	<0.0148	<0.0139	<0.0141
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0134	NT	<0.0324	<0.0118	<0.0111	<0.0113
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00134	NT	<0.00324	<0.00118	<0.00111	<0.00113
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00887	NT	<0.0215	<0.00786	<0.00738	<0.00749
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000394	NT	<0.000957	<0.000349	<0.000328	<0.000333
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00417	NT	0.0144 J	<0.0037	<0.00347	<0.00352
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00158	NT	<0.00383	<0.0014	<0.00131	<0.00133
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00365	NT	<0.00886	<0.00323	<0.00303	<0.00308
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000668	NT	<0.00162	<0.000592	<0.000555	<0.000564
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000521	NT	<0.00127	<0.000462	<0.000433	<0.00044
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000935	NT	0.00941	<0.000829	<0.000778	<0.000789
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00393 J	NT	0.0326	0.00210 J	0.00212 J	0.00386 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000902	NT	<0.00219	<0.0008	<0.00075	<0.000761
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000835	NT	<0.00203	<0.00074	<0.000694	<0.000705
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00644	NT	<0.0156	<0.00571	<0.00535	<0.00543
Trichloroethane, 1,1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000367	NT	<0.000892	<0.000326	<0.000305	<0.00031
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.00118	NT	<0.00286	<0.00105	<0.000981	<0.000995
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.000534	NT	<0.0013	<0.000474	<0.000444	<0.000451
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000668	NT	<0.00162	<0.000592	<0.000555	<0.000564
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00681	NT	<0.0165	<0.00604	<0.00567	<0.00575
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	0.00264 J	NT	0.00682 J	<0.00136	<0.00128	<0.0013
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	0.00526 J	NT	0.01460 J	0.00152 J	<0.00129	<0.00131
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	0.00224 J	NT	0.0064 J	<0.00128	<0.0012	<0.00122
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000912	NT	<0.00222	<0.000809	<0.000759	<0.00077
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00639	NT	0.0259	<0.00566	<0.00531	<0.00539

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	BAY 3 E SIDEWALL	BAY 3 N SIDEWALL	BAY 3 S SIDEWALL	BAY 3 SUMP BASE	BAY 3 SUMP 2 FT BELOW BASE	BAY 3 W SIDEWALL
Laboratory Identification							L1184753-12	L1184753-10	L1184753-11	L1184753-09 L1187323-05	L1187323-08	L1184753-13
Sample Date							1/29/2020	1/29/2020	1/29/2020	1/29/2020	1/29/2020	1/29/2020
Depth Range							5 ft	5 ft	5 ft	5 ft	7 FT	5 ft
Hydrocarbon (NWTPHGx and NWTPHDx)												
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	-	-	-	-	NT	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	0.996 J	2.02 J	1.100 J	3.85	NT	1.440 J
Diesel range organics	2000	NL	NL	460	NL	mg/kg	281	295	134	2470	1600	134
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	630	546	325	5350	1750	267
Metals (EPA Method 6010/7471)												
Arsenic	20	24	0.67	20	2.9	mg/kg	7.54	16.4	7.45	11.5	NT	7.91
Barium	NL	16000	NL	1250	1600	mg/kg	83.2	99.5	84.3	150	NT	71.9
Cadmium	2	8	NL	25	0.69	mg/kg	0.357 J	0.3430 J	0.5250 J	0.2930 J	NT	0.086 J
Lead	250	NL	NL	220	3000	mg/kg	47.3	57.5	46.3	61.7	NT	30.2
Mercury	2	NL	NL	9	2.1	mg/kg	0.069	0.0631	0.083	0.0638	NT	0.02830 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.682	<0.741	<0.703	<0.697	NT	<0.699
Silver	NL	400	NL	NL	14	mg/kg	<0.132	<0.143	<0.136	<0.135	NT	<0.135
Total Chromium	NL	NL	NL	42	NL	mg/kg	27.1	34.1	24.8	40.4	NT	25.7
Chromium, Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT	NT
Chromium, Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT	NT
Other												
% Moisture	NL	NL	NL	NL	NL	%	90.9	83.7	88.2	88.9	91	88.7
SVOCs (EPA Method 8270)												
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	NT	<0.0144	<0.0705	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0151	<0.0737	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	NT	<0.0142	<0.0694	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00963	<0.047	NT
Benzidine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	NT	<0.143	<0.7	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	NT	<0.0123	<0.0602	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0156	<0.0763	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0162	<0.0792	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0131	<0.0639	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0173	<0.0846	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	NT	<0.0202	<0.0984	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	NT	1.9	0.361 J	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0256	<0.125	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	NT	<0.0232	<0.113	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	NT	<0.0107	<0.0524	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	NT	<0.0144	<0.0702	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	NT	<0.0187	<0.0913	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0141	<0.0689	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0125	<0.061	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0185	<0.0902	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	NT	<0.179	<0.872	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	NT	<0.0168	<0.0819	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	NT	<0.0155	<0.0759	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	NT	<0.106	<0.517	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0121	<0.0593	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	NT	0.0703 J	<0.12	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	NT	<0.279	<1.36	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	NT	<0.22	<1.08	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	NT	<0.0137	<0.0667	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	NT	<0.0166	<0.0809	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	NT	<0.0204	<0.0996	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	NT	0.0272 J	<0.0545	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	NT	<0.0153	<0.0749	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	NT	<0.0193	<0.094	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	NT	<0.132	<0.645	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	NT	<0.0301	<0.147	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0174	<0.0848	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	NT	<0.0117	<0.0573	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	NT	<0.02	<0.0976	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	NT	<0.0156	<0.0763	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0292	<0.143	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.118	<0.577	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	NT	<0.146	<0.711	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	NT	<0.0204	<0.0995	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	NT	<0.202	<0.988	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	NT	<0.108	<0.527	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	0.0458 J	<0.058	NT
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	NT	0.0332 J	<0.0763	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	NT	0.0493 J	<0.135	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046							

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TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	BAY 3 E SIDEWALL	BAY 3 N SIDEWALL	BAY 3 S SIDEWALL	BAY 3 SUMP BASE	BAY 3 SUMP 2 FT BELOW BASE	BAY 3 W SIDEWALL
Laboratory Identification							L1184753-12	L1184753-10	L1184753-11	L1184753-09 L1187323-05	L1187323-08	L1184753-13
Sample Date							1/29/2020	1/29/2020	1/29/2020	1/29/2020	1/29/2020	1/29/2020
Depth Range							5 ft	5 ft	5 ft	5 ft	7 FT	5 ft
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.011	<0.0119	<0.0113	<0.0112	NT	<0.0132
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.0011	<0.00119	<0.00113	<0.00112	NT	<0.00132
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.00731	<0.00793	<0.00753	<0.00747	NT	<0.00876
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000325	<0.000352	<0.000335	0.000688 J	NT	<0.000389
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00343	<0.00373	<0.00354	0.0254	NT	0.00524 J
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.0013	<0.00141	<0.00134	0.0155	NT	0.00182 J
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.003	<0.00326	<0.0031	<0.00307	NT	<0.0036
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.00055	<0.000597	<0.000567	<0.000562	NT	<0.00066
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000429	<0.000466	<0.000442	<0.000439	NT	<0.000515
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.00077	0.001190 J	0.00287	0.001660 J	NT	0.003070 J
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00616	0.00296 J	0.00888	0.0439	NT	0.0114
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000743	<0.000806	<0.000765	<0.000759	NT	<0.000891
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000688	<0.000747	<0.000709	<0.000703	NT	<0.000825
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00531	<0.00576	<0.00547	<0.00542	<0.0962	<0.00636
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000303	<0.000328	<0.000312	<0.000309	NT	<0.000363
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.000972	<0.00105	<0.001	<0.000993	NT	<0.00117
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.00044	<0.000478	<0.000454	<0.00045	NT	<0.000528
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.00055	<0.000597	<0.000567	<0.000562	NT	<0.00066
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00561	<0.00609	<0.00578	<0.00574	NT	<0.00673
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	0.00322 J	<0.00137	0.0022 J	0.055	NT	0.00881
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	0.00603	0.00294 J	0.00366 J	0.15	NT	0.0267
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	0.00275 J	<0.00129	0.00183 J	0.0478	NT	0.0102
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000752	<0.000816	<0.000774	<0.000768	NT	<0.000901
Xylenes	9	16000	NL	NL	14	mg/kg	0.0101	<0.00571	0.01	0.0958	NT	0.0136

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SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	EXTERIOR SUMP	EXT SUMP	EXT SUMP	EXT SUMP	EXT SUMP
							BASE	E SIDEWALL	N SIDEWALL	S SIDEWALL	W SIDEWALL
Laboratory Identification							L1184753-14	L1184753-01	L1184753-15	L1184753-16 L1187323-06	L1184753-02
Sample Date							1/29/2020	1/29/2020	1/29/2020	1/29/2020	1/29/2020
Depth Range							3 ft	3 ft	3 ft	3 ft	3 ft
Hydrocarbon (NWTPHGx and NWTPHDx)											
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	-	-	-	-	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	<0.995	<0.972	<0.984	<0.986	<0.98
Diesel range organics	2000	NL	NL	460	NL	mg/kg	<1.56	3.53 J	1.88 J	4.47 J	1.60 J
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	<3.91	4.30 J	<3.87	12.3	<3.85
Metals (EPA Method 6010/7471)											
Arsenic	20	24	0.67	20	2.9	mg/kg	9.22	1.490 J	6.28	54.8	6.83
Barium	NL	16000	NL	1250	1600	mg/kg	48.5	49.9	53.2	132	48.8
Cadmium	2	8	NL	25	0.69	mg/kg	<0.0822	<0.0803	<0.0813	<0.0814	<0.0809
Lead	250	NL	NL	220	3000	mg/kg	4.11	24.9	4.31	50.7	6.76
Mercury	2	NL	NL	9	2.1	mg/kg	0.01410 J	0.02340 J	0.01230 J	0.02400 J	0.01400 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	<0.728	<0.711	<0.72	<0.721	<0.717
Silver	NL	400	NL	NL	14	mg/kg	<0.141	<0.138	<0.139	<0.14	<0.139
Total Chromium	NL	NL	NL	42	NL	mg/kg	20.9	31.5	21.5	28.1	26
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	NT	NT	NT	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	NT	NT	NT	NT	NT
Other											
% Moisture	NL	NL	NL	NL	NL	%	85.2	87.2	86.1	86	86.5
SVOCs (EPA Method 8270)											
Acenaphthene	NL	4800	NL	NL	98	mg/kg	NT	NT	NT	<0.00747	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00781	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	NT	NT	NT	<0.00735	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00498	NT
Benzidine	NL	240	0.0043	NL	NL	mg/kg	NT	NT	NT	<0.0741	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	NT	NT	NT	<0.00638	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00809	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00839	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00677	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00896	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	NT	NT	NT	<0.0104	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	NT	NT	NT	0.0283 J	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0133	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	NT	NT	NT	<0.012	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	NT	NT	NT	<0.00555	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	NT	NT	NT	<0.00743	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	NT	NT	NT	<0.00967	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00729	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00646	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00955	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	NT	NT	NT	<0.0924	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	NT	NT	NT	<0.00868	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	NT	NT	NT	<0.00804	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	NT	NT	NT	<0.0548	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00628	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	NT	NT	NT	<0.0127	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	NT	NT	NT	<0.144	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	NT	NT	NT	<0.114	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	NT	NT	NT	<0.00706	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	NT	NT	NT	<0.00857	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	NT	NT	NT	<0.0106	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	NT	NT	NT	<0.00577	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	NT	NT	NT	<0.00793	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	NT	NT	NT	<0.00996	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	NT	NT	NT	<0.0683	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	NT	NT	NT	<0.0156	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00898	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	NT	NT	NT	<0.00607	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	NT	NT	NT	<0.0103	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	NT	NT	NT	<0.00809	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0151	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.0611	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	NT	NT	NT	<0.0753	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	NT	NT	NT	<0.0105	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	NT	NT	NT	<0.105	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	NT	NT	NT	<0.0558	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	NT	NT	NT	<0.00614	NT
Phenol	NL	24000	NL	NL	11	mg/kg	NT	NT	NT	<0.00809	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	NT	NT	NT	<0.0143	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	NT	NT	NT	<0.00906	NT
VOAs (EPA Method 8260)											
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0161	<0.0157	<0.0159	<0.0159	<0.0158
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.00223	<0.00218	<0.00221	<0.00221	<0.0022
Benzene	0.03	320	18	NL	0.027	mg/kg	<0.00047	<0.000459	<0.000465	<0.000465	<0.000462
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00123	<0.0012	<0.00122	<0.00122	<0.00121
Bromodichloromethane	NL	1600	16	NL	0.037						

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	EXTERIOR SUMP BASE	EXT SUMP E SIDEWALL	EXT SUMP N SIDEWALL	EXT SUMP S SIDEWALL	EXT SUMP W SIDEWALL
Laboratory Identification							L1184753-14	L1184753-01	L1184753-15	L1184753-16 L1187323-06	L1184753-02
Sample Date							1/29/2020	1/29/2020	1/29/2020	1/29/2020	1/29/2020
Depth Range							3 ft	3 ft	3 ft	3 ft	3 ft
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.000616	<0.000602	<0.00061	<0.000611	<0.000607
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0149	<0.0146	<0.0148	<0.0148	<0.0147
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	<0.0147	<0.0143	<0.0145	<0.0145	<0.0145
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0117	<0.0115	<0.0116	<0.0116	<0.0116
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00117	<0.00115	<0.00116	<0.00116	<0.00116
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.0078	<0.00761	<0.00771	<0.00773	<0.00768
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.000346	<0.000338	<0.000343	<0.000343	<0.000341
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.00366	<0.00358	<0.00362	<0.00363	<0.00361
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00139	<0.00135	<0.00137	<0.00137	<0.00136
Styrene	NL	16000	NL	NL	2.2	mg/kg	<0.00321	<0.00313	<0.00317	<0.00318	<0.00316
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.000587	<0.000573	<0.000581	<0.000582	<0.000578
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.000458	<0.000447	<0.000453	<0.000454	<0.000451
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	<0.000822	<0.000803	<0.000813	<0.000814	<0.000809
Toluene	7	6400	NL	NL	4.5	mg/kg	0.00209 J	0.00188 J	<0.00145	0.00168 J	<0.00145
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.000793	<0.000774	<0.000784	<0.000785	<0.00078
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.000734	<0.000717	<0.000726	<0.000727	<0.000723
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.00566	<0.00553	<0.0056	<0.00561	<0.00557
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.000323	<0.000315	<0.000319	<0.00032	<0.000318
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.00104	<0.00101	<0.00103	<0.00103	<0.00102
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.00047	<0.000459	<0.000465	<0.000465	<0.000462
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.000587	<0.000573	<0.000581	<0.000582	<0.000578
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.00599	<0.00585	<0.00592	<0.00593	<0.0059
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00135	<0.00132	<0.00134	<0.00134	<0.00133
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	<0.00136	<0.00133	<0.00135	<0.00135	<0.00134
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	<0.00127	<0.00124	<0.00125	<0.00126	<0.00125
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.000802	<0.000783	<0.000793	<0.000795	<0.00079
Xylenes	9	16000	NL	NL	14	mg/kg	<0.00561	<0.00548	<0.00555	<0.00556	<0.00553

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SUMP LINE MIDPOINT	SUMP LINE MIDPOINT 2' BELOW BASE	BAY 4 SUMP LINE END
Laboratory Identification							L1184715-01 L1187323-01 L1190051-01	L1187323-07	L1184753-08
Sample Date							1/30/2020		1/30/2020
Depth Range							1 ft	3 ft	1 ft
Hydrocarbon (NWTPHGx and NWTPHDx)									
Gasoline range organics (Benzene Present)	30	NL	NL	200	NL	mg/kg	-	NT	-
Gasoline range organics (Benzene NonDetect)	100	NL	NL	200	NL	mg/kg	6.56 B	NT	1.110 J
Diesel range organics	2000	NL	NL	460	NL	mg/kg	60.7	NT	50.6
Oil Range Organics	2000	NL	NL	NL	NL	mg/kg	190	NT	151
Metals (EPA Method 6010/7471)									
Arsenic	20	24	0.67	20	2.9	mg/kg	8.24	NT	3.01
Barium	NL	16000	NL	1250	1600	mg/kg	163	NT	121
Cadmium	2	8	NL	25	0.69	mg/kg	0.521 J	0.299 J	<0.0766
Lead	250	NL	NL	220	3000	mg/kg	94.5	NT	7.09
Mercury	2	NL	NL	9	2.1	mg/kg	0.162	NT	0.02590 J
Selenium	NL	400	NL	0.8	5.2	mg/kg	0.521 J	0.299 J	<0.679
Silver	NL	400	NL	NL	14	mg/kg	<0.184	NT	<0.131
Total Chromium	NL	NL	NL	42	NL	mg/kg	52.8	13	31.9
Chromium,Hexavalent	19	240	NL	NL	18.00	mg/kg	<0.983	NT	NT
Chromium,Trivalent	2000	120000	NL	NL	480000	mg/kg	52.8	NT	NT
Other									
% Moisture	NL	NL	NL	NL	NL	%	65.1	94.3	91.3
SVOCs (EPA Method 8270)									
Acenaphthene	NL	4800	NL	NL	98	mg/kg	<0.0493	NT	NT
Acenaphthylene	NL	NL	NL	NL	NL	mg/kg	<0.0515	NT	NT
Anthracene	NL	24000	NL	NL	2300	mg/kg	<0.0485	NT	NT
Benz-a-anthracene	NL	NL	NL	NL	NL	mg/kg	0.0381 J	NT	NT
Benzidine	NL	240	0.0043	NL	NL	mg/kg	<0.489	NT	NT
Benzo-a-pyrene	0.1	24	0.19	30	3.9	mg/kg	0.0456 J	NT	NT
Benzo-b-fluoranthene	NL	NL	NL	NL	NL	mg/kg	0.0825 J	NT	NT
Benzo-g,h,i-perylene	NL	NL	NL	NL	NL	mg/kg	<0.0554	NT	NT
Benzo-k-fluoranthene	NL	NL	NL	NL	NL	mg/kg	<0.0447	NT	NT
Bis (2-chloroethoxy) methane	NL	NL	NL	NL	NL	mg/kg	<0.0591	NT	NT
Bis (2-chloroethyl) ether	NL	NL	0.91	NL	0.00022	mg/kg	<0.0688	NT	NT
Bis (2-ethyl-hexyl) phthalate	NL	1600	71	NL	13	mg/kg	0.537 J	NT	NT
Bromophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.0875	NT	NT
Butyl benzyl phthalate	NL	16000	530	NL	13	mg/kg	<0.0791	NT	NT
Chloro-3-methylphenol, 4-	NL	8000	NL	NL	NL	mg/kg	<0.0366	NT	NT
Chloronaphthalene, 2-	NL	6400	NL	NL	NL	mg/kg	<0.0491	NT	NT
Chlorophenol, 2-	NL	400	NL	NL	0.47	mg/kg	<0.0638	NT	NT
Chlorophenyl phenylether, 4-	NL	NL	NL	NL	NL	mg/kg	<0.0481	NT	NT
Chrysene	NL	NL	NL	NL	NL	mg/kg	0.0576 J	NT	NT
Dibenz-a,h-anthracene	NL	NL	NL	NL	NL	mg/kg	<0.063	NT	NT
Dichlorobenzidine, 3,3-	NL	NL	2.2	NL	0.0036	mg/kg	<0.61	NT	NT
Dichlorophenol, 2,4-	NL	240	NL	NL	0.17	mg/kg	<0.0573	NT	NT
Diethyl phthalate	NL	64000	NL	NL	72	mg/kg	<0.0531	NT	NT
Dimethyl phenol, 2,4-	NL	1600	NL	NL	1.3	mg/kg	<0.362	NT	NT
Dimethylphthalate	NL	NL	NL	NL	NL	mg/kg	<0.0415	NT	NT
Di-n-butyl phthalate	NL	8000	NL	200	57	mg/kg	<0.0837	NT	NT
Dinitro-2-methylphenol, 4,6-	NL	6.4	NL	NL	NL	mg/kg	<0.952	NT	NT
Dinitrophenol, 2,4-	NL	160	NL	NL	0.13	mg/kg	<0.752	NT	NT
Dinitrotoluene, 2,4-	NL	160	3.2	NL	0.0017	mg/kg	<0.0466	NT	NT
Dinitrotoluene, 2,6-	NL	24	0.67	NL	0.00031	mg/kg	<0.0566	NT	NT
Di-n-octyl phthalate	NL	800	NL	NL	270000	mg/kg	<0.0696	NT	NT
Fluoranthene	NL	3200	NL	NL	630	mg/kg	0.0865 J	NT	NT
Fluorene	NL	3200	NL	NL	100	mg/kg	<0.0524	NT	NT
Hexachlorobenzene	NL	64	0.63	31	0.88	mg/kg	<0.0657	NT	NT
Hexachlorocyclopentadiene	NL	480	NL	NL	190	mg/kg	<0.451	NT	NT
Hexachloroethane	NL	56	25	NL	0.043	mg/kg	<0.103	NT	NT
Indeno-1,2,3-cd-pyrene	NL	NL	NL	NL	NL	mg/kg	<0.0593	NT	NT
Isophorone	NL	16000	1100	NL	0.23	mg/kg	<0.0401	NT	NT
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.0683	NT	NT
Nitrobenzene	NL	160	NL	NL	0.1	mg/kg	<0.0534	NT	NT
Nitrophenol, 2-	NL	NL	NL	NL	NL	mg/kg	<0.0998	NT	NT
Nitrophenol, 4-	NL	NL	NL	NL	NL	mg/kg	<0.403	NT	NT
Nitrosodimethylamine, N-	NL	0.64	0.02	NL	NL	mg/kg	<0.497	NT	NT
Nitrosodi-n-propylamine, N-	NL	NL	0.14	NL	0.000056	mg/kg	<0.0696	NT	NT
Nitrosodiphenylamine, N-	NL	NL	200	NL	0.53	mg/kg	<0.691	NT	NT
Pentachlorophenol	NL	400	2.5	11	0.016	mg/kg	<0.369	NT	NT
Phenanthrene	NL	NL	NL	NL	NL	mg/kg	0.0666 J	NT	NT
Phenol	NL	24000	NL	NL	11	mg/kg	0.103 J	NT	NT
Pyrene	NL	2400	NL	NL	650	mg/kg	<0.0944	NT	NT
Trichlorophenol, 2,4,6-	NL	80	91	NL	0.046	mg/kg	<0.0598	NT	NT
VOAs (EPA Method 8260)									
Acetone	NL	72000	NL	NL	29	mg/kg	<0.0606	NT	<0.015
Acrylonitrile	NL	3200	1.9	NL	NL	mg/kg	<0.0084	NT	<0.00208
Benzene	0.03	320	18	NL	0.027	mg/kg	<0.00177	NT	<0.000438
Bromobenzene	NL	NL	640	NL	0.56	mg/kg	<0.00464	NT	<0.00115
Bromodichloromethane	NL	1600	16	NL	0.037	mg/kg	<0.00348	NT	<0.000863
Bromoform	NL	1600	130	NL	0.36	mg/kg	<0.0264	NT	<0.00655
Bromomethane	NL	110	NL	NL	0.05	mg/kg	<0.0164	NT	<0.00405
Butylbenzene, n-	NL	4000	NL	NL	NL	mg/kg	<0.017	NT	<0.0042
Butylbenzene, sec-	NL	8000	NL	NL	NL	mg/kg	<0.0112	NT	<0.00277
Butylbenzene, tert-	NL	8000	NL	NL	NL	mg/kg	<0.00685	NT	<0.0017
Carbon tetrachloride	NL	320	14	NL	0.042	mg/kg	<0.00478	NT	<0.00118
Chlorobenzene	NL	1600	NL	NL	0.86	mg/kg	<0.00253	NT	<0.000627
Chloroethane	NL	NL	NL	NL	NL	mg/kg	<0.00478	NT	<0.00118
Chloroform	NL	800	32	NL	0.074	mg/kg	<0.00184	NT	<0.000454
Chloromethane	NL	NL	NL	NL	NL	mg/kg	<0.00615	NT	<0.00152
Chlorotoluene, o-	NL	1600	NL	NL	NL	mg/kg	<0.00407	NT	<0.00101
Chlorotoluene, p-	NL	NL	NL	NL	NL	mg/kg	<0.005	NT	<0.00124
Cumene	NL	8000	NL	NL	NL	mg/kg	<0.00382	NT	<0.000945
Cymene	NL	NL	NL	NL	NL	mg/kg	<0.0103	NT	<0.00255
Dibromo-3-chloropropane, 1,2-	NL	16	1.3	NL	NL	mg/kg	<0.0226	NT	<0.00558
Dibromochloromethane	NL	1600	12	NL	0.028	mg/kg	<0.00199	NT	<0.000493
Dichlorobenzene, 1,2-	NL	7200	NL	NL	7	mg/kg	<0.00641	NT	<0.00159
Dichlorobenzene, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00752	NT	<0.00186
Dichlorobenzene, 1,4-	NL	5600	190	NL	1.2	mg/kg	<0.00871	NT	<0.00216
Dichlorodifluoromethane	NL	16000	NL	NL	NL	mg/kg	<0.00362	NT	<0.000896
Dichloroethane, 1,1-	NL	16000	180	NL	0.041	mg/kg	<0.00254	NT	<0.00063
Dichloroethane, 1,2-	NL	480	11	NL	0.023	mg/kg	<0.0021	NT	<0.00052
Dichloroethylene, 1,1-	NL	4000	NL	NL	0.046	mg/kg	<0.00221	NT	<0.000547
Dichloroethylene, cis-1,2-	NL	160	NL	NL	0.078	mg/kg	<0.00305	NT	<0.000755

Table # 1
SOIL ANALYTICAL RESULTS
Future Federal Way Hospital
Federal Way, WA
TGE Project No.: R13411.07

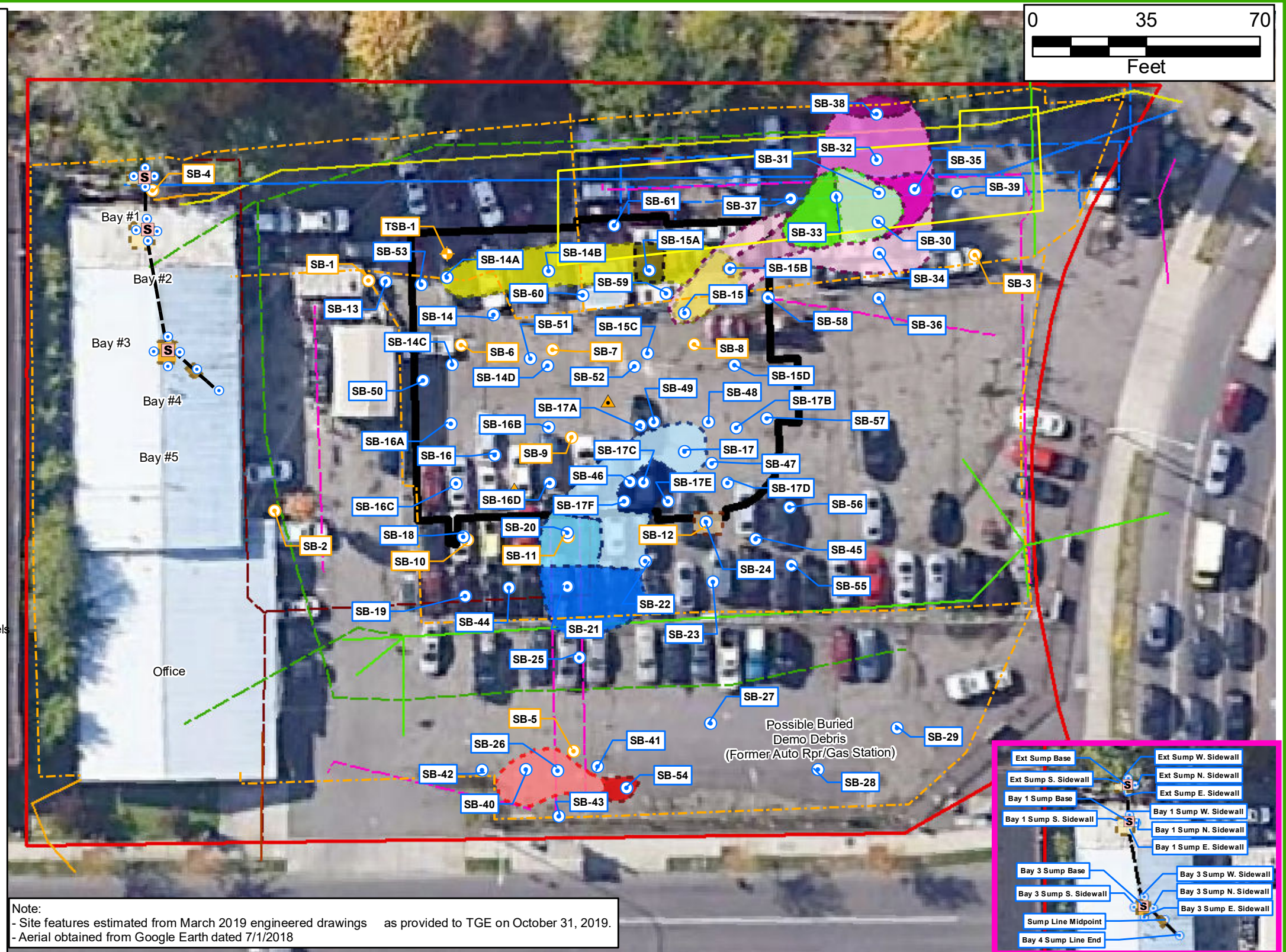
Station Name	Method A Direct Contact (May 2019)	Method B Non-Cancer Direct Contact (May 2019)	Method B Cancer Direct Contact (May 2019)	Simplified Terrestrial Eco Evaluation Unrestricted Land Use (May 2019)	Soil Protective of Groundwater Vadose at 13 Deg (May 2019)	Reporting Units	SUMP LINE MIDPOINT	SUMP LINE MIDPOINT 2' BELOW BASE	BAY 4 SUMP LINE END
Laboratory Identification							L1184715-01 L1187323-01 L1190051-01	L1187323-07	L1184753-08
Sample Date							1/30/2020		1/30/2020
Depth Range							1 ft	3 ft	1 ft
Dichloroethylene, trans-1,2	NL	1600	NL	NL	0.52	mg/kg	<0.00632	NT	<0.00157
Dichloropropane, 1,2-	NL	3200	27	NL	0.025	mg/kg	<0.00562	NT	<0.00139
Dichloropropane, 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00774	NT	<0.00192
Dichloropropane, 2,2-	NL	NL	NL	NL	NL	mg/kg	<0.00351	NT	<0.000868
Dichloropropene, 1,1-	NL	NL	NL	NL	NL	mg/kg	<0.0031	NT	<0.000766
Dichloropropene, cis 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.003	NT	<0.000742
Dichloropropene, trans 1,3-	NL	NL	NL	NL	NL	mg/kg	<0.00677	NT	<0.00168
Diisopropyl ether	NL	NL	NL	NL	NL	mg/kg	<0.00155	NT	<0.000383
Ethyl benzene	6	8000	NL	NL	5.9	mg/kg	<0.00234	NT	0.00113 J
Ethylene dibromide	0.005	720	0.5	NL	NL	mg/kg	<0.00232	NT	<0.000575
Hexachlorobutadiene	NL	80	13	NL	0.6	mg/kg	<0.0562	NT	<0.0139
Methyl ethyl ketone	NL	48000	NL	NL	NL	mg/kg	0.1410 B	NT	0.0258 B J
Methyl isobutyl ketone	NL	6400	NL	NL	NL	mg/kg	<0.0442	NT	<0.0109
Methylene bromide	NL	800	NL	NL	NL	mg/kg	<0.00442	NT	<0.00109
Methylene chloride	0.02	480	500	NL	0.021	mg/kg	<0.0294	NT	<0.00727
MTBE	0.1	NL	560	NL	0.1	mg/kg	<0.0013	NT	<0.000323
Naphthalene	5	1600	NL	NL	4.5	mg/kg	<0.0138	NT	<0.00342
Propylbenzene, n-	NL	8000	NL	NL	NL	mg/kg	<0.00522	NT	<0.00129
Styrene	NL	16000	NL	NL	2.2	mg/kg	0.0298 J	NT	0.00323 J
Tetrachloroethane, 1,1,1,2-	NL	2400	38	NL	NL	mg/kg	<0.00221	NT	<0.000547
Tetrachloroethane, 1,1,2,2-	NL	1600	5	NL	0.0012	mg/kg	<0.00172	NT	<0.000427
Tetrachloroethylene	0.05	480	480	NL	0.05	mg/kg	0.0055 J	NT	<0.000766
Toluene	7	6400	NL	NL	4.5	mg/kg	0.0349	NT	0.00303 J
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NL	2400000	NL	NL	NL	mg/kg	<0.00299	NT	<0.000739
Trichlorobenzene, 1,2,3-	NL	NL	NL	NL	NL	mg/kg	<0.00276	NT	<0.000684
Trichlorobenzene, 1,2,4-	NL	800	34	NL	0.56	mg/kg	<0.0213	NT	<0.00528
Trichloroethane, 1,1,1-	2	160000	NL	NL	1.5	mg/kg	<0.00122	NT	<0.000301
Trichloroethane, 1,1,2-	NL	320	18	NL	0.028	mg/kg	<0.0039	NT	<0.000967
Trichloroethylene	0.03	40	12	NL	0.025	mg/kg	<0.00177	NT	<0.000438
Trichlorofluoromethane	NL	24000	NL	NL	NL	mg/kg	<0.00221	NT	<0.000547
Trichloropropane, 1,2,3-	NL	320	0.033	NL	NL	mg/kg	<0.0226	NT	<0.00558
Trimethylbenzene, 1,2,3-	NL	800	NL	NL	NL	mg/kg	<0.00509	NT	<0.00126
Trimethylbenzene, 1,2,4-	NL	800	NL	NL	NL	mg/kg	0.00995 B J	NT	0.00164 J
Trimethylbenzene, 1,3,5-	NL	800	NL	NL	NL	mg/kg	0.00487 J	NT	<0.00118
Vinyl chloride	NL	240	0.67	NL	0.0017	mg/kg	<0.00302	NT	<0.000748
Xylenes	9	16000	NL	NL	14	mg/kg	0.0412	NT	<0.00523

Notes:

16.60	Concentrations in blue indicate levels above method detection limits yet below Washington Department of Ecology (Ecology) screening level(s)
NL	No Limit Established
mg/kg	Milligrams per kilogram (parts per million)
T8	Sample analyzed outside of hold time
J	Analyte is an estimated value between the Reporting Limit (RL) and Method Detection Limit (MDL) (for organics
*	Result Exceeds the Washington Department of Ecology Method B Direct Contact cancer assessment level. This screening level is used upon demonstration that Site groundwater is not impacted.
	Result Exceeds the Washington Department of Ecology Priority Contaminants of Concern for Sites that Qualify for the Simplified Terrestrial Ecological Evaluation Procedure as defined within Table 749-2 of the Model Toxics Control Act [MTCA] Regulation and Statute.
	Result Exceeds the Washington Department of Ecology Method A Direct Contact and/or soil leaching assessment level
	Result Exceeds the Washington Department of Ecology Soil Protective of Groundwater Vadose at 13 Deg assessment level.

ATTACHMENT 2

	Approximate Limits of RCRA metal Arsenic impact in excess of Ecology Screening Limits to a depth of 2 fbg (Area A1)		
	Approximate Limits of RCRA metal Arsenic impact in excess of Ecology Screening Limits to a depth of 3 fbg (Area A2)		
	Approximate Limits of RCRA metal Arsenic impact in excess of Ecology Screening Limits to a depth of 5 fbg (Area A3)		
	Approximate Limits of RCRA metal Arsenic impact in excess of Ecology Screening Limits to a depth of 7 fbg (Area A4)		
	Approximate Limits of RCRA metal Arsenic impact in excess of Ecology Screening Limits to a depth of 8 fbg (Area A5)		
	Approximate Limits of OC Pesticide Dieldrin impact in excess of Ecology Screening Limits to a depth of 6 fbg (Area A6)		
	Approximate Limits of OC Pesticide Dieldrin impact in excess of Ecology Screening Limits to a depth of 12 fbg (Area A7)		
	Approximate Limits of TPH DRO/ORO impact in excess of Ecology Screening Limits to a depth of 2 fbg (Area B1)		
	Approximate Limits of TPH DRO/ORO impact in excess of Ecology Screening Limits to a depth of 4 fbg (Area B2)		
	Approximate Limits of TPH DRO/ORO impact in excess of Ecology Screening Limits to a depth of 2 fbg (Area C1)		
	Approximate Limits of petroleum hydrocarbon (GRO) impact in excess of Ecology Screening Levels to 4 fbg (Area C2)		
	Approximate Limits of RCRA metal lead and/or 1,1,2,2-TCA impact in excess of Ecology Screening Limits to a depth of 9 fbg (Area C3)		
	Approximate Limits of petroleum hydrocarbon (GRO) impact in excess of Ecology Screening Levels to 18 fbg (Area C4)		
	Approximate Limits of RCRA Metal Arsenic impact in excess of Ecology Screening Levels to a depth of 2 fbg (Area D)		
	Approximate Limits of RCRA Metals (Lead and/or Cadmium impact in excess of Ecology Screening Levels to a depth of 11 fbg (Area E1)		
	Approximate Limits of RCRA Metals (Lead and/or Cadmium impact in excess of Ecology Screening Levels to a depth of 14 fbg (Area E2)		
	Approximate Limits of RCRA Metals (Lead and/or Arsenic) impact in excess of Ecology Screening Levels to a depth of 5 fbg (Area F1)		
	Approximate Limits of TPH DRO/ORO impact in excess of Ecology Screening Levels to a depth of 7 fbg (Area F2)		
	Approximate Limits of RCRA Metal Cadmium impact in excess of Ecology Screening Levels to a depth of 2 fbg (Area F3)		
	Former Greenhouse (as reported by others in 1993)		
	Proposed Building Footprint		
	Approximate Site Limits (as per Demo Plan provided to TGE and King CAD)		
	Fence		
	Existing Electrical Lines		Proposed Electrical Lines
	Existing Water Lines		Proposed Water Lines
	Existing Stormwater Lines		Proposed Stormwater Lines
	Existing Sanitary Lines		Proposed Sanitary Lines
	Existing Commercial Sump Discharge Line		
	Soil Boring (Completed by TGE November 2019 & January 2020)		
	Soil Boring (Completed by TGE in August 2017)		
	Temporary Screened Borehole (Completed by TGE in August 2017)		
	Temporary Vapor Monitor Point (Completed by TGE in August 2017)		



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Delineation Map Exceeding Ecology Screening Limits (Revised February 11, 2020)