613 - 744 West Hastings Vancouver, BC Canada V6C 1A5







NOTE TO READER

This document was prepared for the Contaminated Sites Approved Professional Society (CSAP) for use by Approved Professionals in their work. The BC Ministry of Environment and Climate Change Strategy (ENV) has not endorsed this document and the information in this document in no way limits the director's exercise of discretion under the *Environmental Management Act*.

CSAP has recommended that Approved Professionals use their professional judgement¹ in applying any guidance, including this document. As the science upon which contaminated sites remediation is based is relatively young and because no two sites that involve the natural environment are the same, the need to exercise professional judgement within the regulatory process is recognized.

Ultimately, submissions for *Environmental Management Act* instruments need to meet regulatory requirements. The onus is on qualified professionals and Approved Professionals to document the evidence upon which their recommendations depend.

Any use which an Approved Professional or any other person makes of this document, or any reliance on or decision made based upon it, is the sole responsibility of such Approved Professional or other person. CSAP accepts no liability or responsibility for any action, claim, suit, demand, proceeding, loss, damage, cost or expense of any kind or nature whatsoever that may be suffered or incurred, directly or indirectly, by an Approved Professional or any other person as a result of or in any way related to or connected with that Approved Professional or other person's use of, reliance on, or any decision made based on this document.

The conclusions and recommendations of this document are based upon applicable legislation and policy existing at the time the document was prepared. Changes to legislation and policy may alter conclusions and recommendations.

¹ https://csapsociety.bc.ca/wp-content/uploads/ATT-3 -CSAP-Professional-Judgement-May2nd.pdf





CSAP GUIDANCE FOR POTENTIAL CONTAMINANTS OF CONCERN

Prepared For:

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1.0 Introduction

Legacy Environmental Ltd. (LEGACY) and Thurber Engineering Ltd. (Thurber) (collectively known as "LEGACY/Thurber") were commissioned by the Contaminated Sites Approved Professional (CSAP) Society to prepare this CSAP Guidance for Potential Contaminants of Concern (PCOCs). LEGACY/Thurber understands the purpose of this work is to develop a user-friendly guidance document that updates the *June 2018 Potential Contaminants of Concern at Select Commercial and Industrial Land Uses* document completed by PGL Environmental Consultants (PGL) and to include the *2020 Petroleum Hydrocarbon PCOC Data Review, Soil and Groundwater* completed by SLR Consulting Ltd. (SLR), as well as other data and information that has come out since 2018. This document is intended to provide BC practitioners with a basis for identifying relevant PCOCs at a site.

2.0 COMMON SCHEDULE 2 USES

CSAP requested the focus of this document be placed on the most common Contaminated Sites Regulation (CSR) Schedule 2 Uses encountered since November 2017. To determine the most common Schedule 2 Uses, data was extracted from site profile and site disclosure statements obtained from the BC Ministry of Environment and Climate Change Strategy (ENV). The data was organized into a spreadsheet and each Schedule 2 Use was ranked according to its frequency.

The top 10 most common Schedule 2 Uses were selected for inclusion in this document. In order from rank 1 to rank 10, the most listed Schedule 2 Uses include the following:

- 1. F1. petroleum or natural gas drilling
- 2. F2. petroleum or natural gas production facilities
- 3. G2. automotive, truck, bus, subway or other motor vehicle repair, salvage or wrecking
- 4. F7. petroleum product (other than compressed gas), or produced water storage in non-mobile above ground or underground tanks, except above ground tanks associated with emergency generators or with secondary containment
- 5. F5. petroleum product, other than compressed gas, dispensing facilities, including service stations and card locks
- 6. E1. appliance, equipment or engine repair, reconditioning, cleaning or salvage
- 7. C6. welding or machine shops (repair or fabrication)
- 8. F6. petroleum, natural gas or sulfur pipeline rights of way excluding rights of way for pipelines used to distribute natural gas to consumers in a community
- 9. E9. dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations at which clothing is deposited but no dry cleaning process occurs



10. A9. pharmaceutical products, or controlled substances as defined in the Controlled Drugs and Substances Act (Canada), manufacturing or operations¹

In addition to the top 10, an additional 27 Schedule 2 Uses, as included in PGL's 2018 document, are included herein to create an all-encompassing document that supersedes the PGL (2018) and SLR (2020) documents. The detailed analysis is included in **Appendix A** and shows the 37 included Schedule 2 Uses highlighted in grey. Given there are 87 Schedule 2 Uses listed in the Stage 14 Amendment to the CSR, there are 50 Schedule 2 Uses not included in this document. CSAP also requested LEGACY/Thurber provide guidance on identifying relevant PCOCs for a list of common areas of potential environmental concern (APECs) often encountered by practitioners.

3.0 PCOC GUIDANCE FOR SELECT SCHEDULE 2 USES

CSAP requested a review of the parameters listed in BC CSR Schedule 3.1, 3.2, 3.3, and 3.4 and to list which parameters are "Likely PCOCs" or "Possible PCOCs" for the 37 selected Schedule 2 Uses as identified in Section 2.0. Each of the 37 Schedule 2 Uses, plus fill material are listed in the attached Table 1: PCOC Guidance for Select Schedule 2 Uses. A list of common areas of potential environmental concern (APECs) and associated Likely and Possible PCOCs are listed in the attached Table 2: PCOC Guidance for Common APECs.

PGL's 2018 report references the extensive research they conducted into PCOCs for the various Schedule 2 Uses and it was not part of our scope to re-do this research. Rather, this document revisits and builds upon the research done by PGL, the hydrocarbon data review conducted by SLR in 2020, and the experience of the LEGACY/Thurber team. Where appropriate, we did conduct additional research such as for Schedule 2 Use A9, for which we reviewed various US EPA guidance on drug lab remediation. In addition, we completed research into specific items referenced in CSAP's Request for Proposal:

- Fuel PCOCs (referenced in SLR's 2020 report)
- When tetraethyl lead (TEL)should be included as a PCOC
- Which metals should be a PCOC for the most common Schedule 2 Uses

The Likely PCOCs are meant to be a list of the commonly identified contaminants for any given Schedule 2 Use regardless of the circumstances or specific activities that have occurred or are occurring. We expect that these substances will be tested for in the appropriate medium for a given

¹A former Schedule 2 Use "E11 – Controlled Substances..." was initially ranked 10th; however, this was repealed as a Schedule 2 activity as part of the CSR Stage 13 Amendment in 2021.



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Schedule 2 Use in most circumstances; however, we acknowledge there is always an allowance for the use of professional judgement.

The Possible PCOCs are meant to be a list of PCOCs that may be identified at any given Schedule 2 Use if certain circumstances or activities have occurred. An example of a Possible PCOC would be TEL at an F7 Schedule 2 Use. Since TEL is a gasoline additive only used pre-1986 or in aviation gas, a practitioner may decide to exclude it if the F7 operations commenced post 1986 or do not involve aviation fuel.

The Likely and Possible PCOCs provided in **Table 1** and **Table 2** should not be interpreted as the only PCOCs for each of these Schedule 2 uses. There are 100's of regulated PCOCs that have not been included in this document. Practitioners are encouraged to use this document as a guide to the most common PCOCs, but the full list of PCOCs for any given Schedule 2 use should be identified via a thorough Stage 1 Preliminary Site Investigation. These studies are designed to identify the site-specific operations and activities including the site-specific products and chemicals used over time. For example, at a foundry (C1.), the specific metal PCOCs depend on the metals/alloys being used and produced. For current manufacturing facilities, Safety Data Sheets (SDSs) can be compared against the CSR Schedules to identify the full list of regulated PCOCs.

Within **Table 1** and **Table 2**, several parameters are listed as Parameter Groups instead of individual parameters, an example of which is metals. The individual metal parameters included in the metals Parameter Group are listed in **Table 3** along with all other Parameter Groups.





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- Massachusetts Department of Environmental Protection Source Water Assessment Program. February 2017. <u>Land Use/Associated Contaminants Matrix</u>
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- PGL Environmental Consultants Ltd, 2018. <u>Potential Contaminants of Concern at Select Commercial and Industrial Land</u> Uses
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- 15. US EPA, August 2021. Voluntary Guidelines for Methamphetamine and Fentanyl Laboratory Cleanup
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- 17. Wisconsin Department of Natural Resources. Remediation and Redevelopment Program. September 2019. <u>Site Investigation Scoping: Identifying Contaminants of Concern</u>
- 18. Yukon Government Environmental Protection and Assessment. August 2020. General Information on Waste Oil

5.0 ABOUT THE AUTHORS

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Karey is a senior project manager and contaminated sites specialist at LEGACY with 20 years of experience in contaminated sites consulting in British Columbia. Karey's technical expertise lies as a generalist in the world of contaminated sites and particularly within the land development sector. Karey helps clients navigate the complex and ever-changing Contaminated Sites Regulation to see a Brownfield site revitalized into a new and productive space for the community. Karey has been directly involved with Standard and Risk Assessment Approved Professionals on 30+ Ministry Instruments. Besides Karey's expertise and perspective as a non-CSAP, she is a certified Professional Project Manager.

Lora Paul, P.Eng., CSAP

Lora is a Senior Environmental Engineer at Thurber with 22 years of experience in contaminated sites and has been involved in a wide range of environmental projects throughout British Columbia. Lora has experience on a wide range of Commercial and Industrial sites for clients including federal and provincial governments, land developers, chemical manufactures, auto dealerships, oil and gas companies, municipal landfills and more.

Andrew Sorensen, P.Eng., CSAP

Andrew is a Senior Environmental Engineer at Thurber with over 23 years of experience conducting environmental site assessment and remediation projects and is the technical lead for Thurber's environmental operations in BC. His experience ranges from Preliminary and Detailed Site Investigations to long-term monitoring projects to complex remediation and closure projects. Andrew



is highly active within the CSAP Society and currently serves on the Board of Directors as Vice-President and Treasurer. He previously served on the Board of Directors between 2015 and 2019 as chair of the Professional Development Committee and Treasurer. During his previous tenure on the Board, he and Peter Reid spearheaded the initial PCOC project at the Board level as they recognized the need for a general PCOC reference document that BC practitioners could utilize.

Travis Deeter, P.Ag., CSAP

Travis is a Senior Environmental Scientist at Thurber with 20 years of experience in contaminated sites and has been involved in a wide range of environmental projects throughout British Columbia. His work focuses largely on the development sector, which often means working with the CSAP system for instrument applications. His experience encompasses residential, commercial, and industrial development, remote chemical spill cleanups, environmental monitoring and environmental audits, habitat restoration and bioengineering projects.

6.0 DISCLAIMER

This document was prepared based on the extensive experience of the report authors and feedback received from the CSAP Technical Review Committee. It is meant to be a guide for contaminated sites practitioners in BC. It is not meant to provide an exhaustive list of PCOCs for each Schedule 2 Use. It does not replace any regulatory requirements.



TABLES

Table 1 PCOC Guidance for Select Schedule 2 Uses

Table 2 PCOC Guidance for Common APECs

Table 3 Parameter Groups







Schedule 2 Use	Likely PCOCs		Possible PCOCs
		Possible Parameter nonylphenol and nonylphenol ethoxylates	Related Activity/Source Surfactants
A8. Paint, lacquer or varnish manufacturing,	Metals, LEPH, VPH, Toluene, Xylenes, Solvent VOC	antifouling agents	Preservation agent
formulation, recycling or bulk storage	Wietars, ELITI, VITI, Toldelle, Aylelles, Solvelle Voe	chlorinated phenols PCB	Preservation agent in antifouling paints Paint ingredient prior to 1979
		ammonia, nitrate, nitrite	Fertilizers
A9. Pharmaceutical products, or controlled substances as defined in the Controlled Drugs		sodium ion lead, lithium, mercury	Sodium hydroxide and sodium metal reagents May be present depending on the method and raw materials used
and Substances Act (Canada), manufacturing or	BTEX, VPH, Solvent VOC	pyridine	Reagent
operations		trichloro-1,2,2-trifluoroethane, 1,1,2- PAH, dioxins/furans	Solvent Burn pits
B2. Facilities using equipment that contains	РСВ, LЕРН, НЕРН	PAH, GIOXIIIS/TUTATIS	isum pits
PCBs greater than or equal to 50 ppm	PCB, LEPH, HEPH		Liquid dielectrics in transformers (Most common pre-1980, but could be found later at
B3. Electrical equipment manufacturing,	Zinc, LEPH, HEPH, VPH, BTEX, Solvent VOC	РСВ	refurbishing operations.)
refurbishing or bulk storage	Zinc, LEFTI, TIEFTI, VFTI, BTEX, Solvent VOC	trichlorobenzene, 1,2,4- sodium ion	Additive to liquid dielectrics in transformers Caustics like sodium hydroxide
		tetrachlorethylene and its daughter products	Mostly used post-1980
B4. Electrical transmission or distribution	PCB, LEPH, HEPH	trichlorobenzene, 1,2,4-	Additive to liquid dielectrics in transformers
substations		arsenic, copper, lead, zinc herbicides	Handling and storage of cable and electrical components, galvanized metal structures Staining and distressed vegetation
B5. Electronic equipment manufacturing	Solvent VOC, Cadmium, Copper, Lead	chloride ion, fluoride and sodium ion	Electroplating baths, etching solutions Cyanide salts (e.g., sodium cyanide) in hardening baths
		chloride ion, fluoride, sodium ion, and sulfate	Salt bath waste and fluxes
C1. Foundries	Metals, VPH, LEPH, HEPH, BTEX, Solvent VOC	dioxins/furans	Process wastes and melting plastics on scrap metal
		phenol, methyl phenols, and dimethylphenols ammonia, nitrate, and nitrite	Phenol-formaldehyde resins (binder for sand castings) Urea-formaldehyde resins (binder for sand castings)
		ammonia, chloride ion, fluoride, nitrate, nitrite,	Caustics, fluxes, and electroplating solutions
		sodium ion, and sulfate 1,1,2-trichloro-1,2,2 trifluoroethane (CFC-113)	If used/processed in high volumes
C2. Galvanizing	Metals, Solvent VOC, VPH, LEPH, HEPH	cyanide	Stabilizers
		perfluorobutane sulfonate (PFBS), perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA)	Coatings, wetting agent/fume suppressant, cleaners
		ammonia, chloride ion, fluoride, nitrate, nitrite,	Caustics, fluxes, and electroplating solutions
C3. Metal plating or finishing	Metals, Solvent VOC, VPH, LEPH, HEPH	sodium ion, and sulfate 1,1,2-trichloro-1,2,2 trifluoroethane (CFC-113)	Solvents
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	cyanide	Stabilizers
C4. Metal salvage operations	Metals	PFBS, PFOS, PFOA	Coatings, wetting agent/fume suppressant, cleaners For equipment cleaning and maintenance - See E1
5 1. Inicial salvage operations	Wictais	r cyanide	Cyanide salts (e.g., sodium cyanide) in hardening baths
C5. Metal smelting or refining	Metals, VPH, LEPH, HEPH, BTEX, Solvent VOC	chloride ion, fluoride, sodium ion, and sulfate dioxins/furans	Salt bath waste and fluxes Process wastes and melting plastics on scrap metal
C3. Wictar shicking or remining	Metals, VIII, ELITI, HEITI, BIEX, Solvent VOC	phenol, methyl phenols, and dimethylphenols	Phenol-formaldehyde resins (binder for sand castings)
C6. Welding or Machine Shops (repair or		ammonia, nitrate, and nitrite ammonia, chloride, flouride	Urea-formaldehyde resins (binder for sand castings)
fabrication)	Metals, LEPH, HEPH	BTEX, VPH, Solvent VOC	Welding fluxes Painting or other solvent related activities
Ed Augliana and an artist		ethylene glycol, propylene glycol	Known glycol spill
E1. Appliance, equipment or engine maintenance, repair, reconditioning, cleaning	Waste Oil Metals, LEPH, HEPH, PAH, Solvent VOC	metals	Improper battery storage Sand blasting
or salvage		BTEX/VPH	For gas/diesel equipment and engine repair
		-	For fuel storage - See F5 If incinerator fuel included a chlorine source such as waste from a pulp mill, chlorophenol
E2. Ash deposit from boilers, incinerators or other thermal facilities	Metals, PAH	dioxins/furans	treated wood, or marine wood waste. Dioxin/furan concentrations are generally higher in
E4. Coal gasification (manufactured gas		cyanide	fly ash as opposed to bottom ash. Purifier and scrubber wastes, coal tar
production)	PAH, BTEX, Metals, Non-chlorinated Phenols	ammonia, nitrate, nitrite, and sulfate	Purifier and scrubber wastes, waste water treatment sludge
E6. Outdoor firearm shooting ranges	Antimony, Arsenic, Cadmium, Copper, Lead, Tin, and Zinc, PAH, Nitrates, Nitrites	Herbicides	Staining and distressed vegetation
F7 Road Salt or Brine Storage		cvanide	Anticaking compounds - unlikely to be present if salt ion concentrations are not elevated
E7. Road Salt or Brine Storage	Chloride Ion and Sodium Ion	cyanide	Anticaking compounds - unlikely to be present if salt ion concentrations are not elevated
E7. Road Salt or Brine Storage E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations	Chloride Ion and Sodium Ion	VPH LEPH	Anticaking compounds - unlikely to be present if salt ion concentrations are not elevated Stoddard solvent, primarily before 1970
E9. Dry cleaning facilities or operations and dry	Chloride Ion and Sodium Ion	VPH LEPH Diesel VOC	Stoddard solvent, primarily before 1970 Diesel storage
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations	Chloride Ion and Sodium Ion Drycleaning VOC	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite	Stoddard solvent, primarily before 1970
E9. Dry cleaning facilities or operations and dry	Chloride Ion and Sodium Ion	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethyllene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns Produced water storage
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production Facilities F5. Petroleum Product, other than compressed	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Fire fighting foams Gasoline storage -include 1,2-dibromoethane (EDB) and 1,2-dichloroethane pre-1986
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production Facilities	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides PFBS, PFOS, PFOA Gasoline VOC	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Fire fighting foams Gasoline storage -include 1,2-dibromoethane (EDB) and 1,2-dichloroethane pre-1986 -include MTBE 1988-2001
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production Facilities F5. Petroleum Product, other than compressed gas, dispensing facilities, including service	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides PFBS, PFOS, PFOA	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Fire fighting foams Gasoline storage -include 1,2-dibromoethane (EDB) and 1,2-dichloroethane pre-1986 -include MTBE 1988-2001 Diesel storage Additive to gasoline pre-1986 and still being used for aviation fuel
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production Facilities F5. Petroleum Product, other than compressed gas, dispensing facilities, including service	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides PFBS, PFOS, PFOA Gasoline VOC Diesel VOC TEL	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Fire fighting foams Gasoline storage -include 1,2-dibromoethane (EDB) and 1,2-dichloroethane pre-1986 -include MTBE 1988-2001 Diesel storage Additive to gasoline pre-1986 and still being used for aviation fuel Crude oil storage - see F1/F2
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production Facilities F5. Petroleum Product, other than compressed gas, dispensing facilities, including service stations and card locks	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides PFBS, PFOS, PFOA Gasoline VOC Diesel VOC	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Fire fighting foams Gasoline storage -include 1,2-dibromoethane (EDB) and 1,2-dichloroethane pre-1986 -include MTBE 1988-2001 Diesel storage Additive to gasoline pre-1986 and still being used for aviation fuel Crude oil storage - see F1/F2 For petroeum pipelines with a documented release For a sulfur pipeline in an agricultural area with a documented release
E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production Facilities F5. Petroleum Product, other than compressed gas, dispensing facilities, including service stations and card locks F6. Petroleum, natural gas or sulfur pipeline	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides PFBS, PFOS, PFOA Gasoline VOC Diesel VOC LEPH, HEPH, PAH, VPH, BTEX sulfur Gasoline VOC	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Fire fighting foams Gasoline storage -include 1,2-dibromoethane (EDB) and 1,2-dichloroethane pre-1986 -include MTBE 1988-2001 Diesel storage Additive to gasoline pre-1986 and still being used for aviation fuel Crude oil storage - see F1/F2 For petroeum pipelines with a documented release For a sulfur pipeline in an agricultural area with a documented release For gasoline pipelines with a documented release
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E9. Dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations F1. Petroleum or Natural Gas Drilling F2. Petroleum or Natural Gas Production Facilities F5. Petroleum Product, other than compressed gas, dispensing facilities, including service stations and card locks F6. Petroleum, natural gas or sulfur pipeline rights of way excluding rights of way for pipelines used to distribute natural gas to consumers in a community F7. Petroleum Product (other than compressed	Chloride Ion and Sodium Ion Drycleaning VOC LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, PAH, VPH, BTEX, Metals, Sodium Ion and Chloride Ion LEPH, HEPH, VPH, BTEX, PAH None identified	VPH LEPH Diesel VOC Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides Diesel VOC sulfolane, diethanolamine, and diisopropanolamine Solvent VOC ammonia, nitrate, nitrite sulfate ethylene glycol, propylene glycol, triethylene glycol methanol herbicides PFBS, PFOS, PFOA Gasoline VOC Diesel VOC TEL - LEPH, HEPH, PAH, VPH, BTEX sulfur Gasoline VOC Diesel VOC sulfolane, diethanolamine, and diisopropanolamine metals Herbicides Gasoline VOC Diesel VOC Diesel VOC sulfolane, diethanolamine, and diisopropanolamine metals Herbicides Gasoline VOC Diesel VOC TEL sulfolane, diethanolamine, and diisopropanolamine	Stoddard solvent, primarily before 1970 Diesel storage Solvents use, produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Diesel storage Sweetening additives, amine sumps Solvents use, Produced water storage, drill fuel additives Produced water storage and ponds, drill fuel additives Produced water storage and ponds, drill fuel additives and amine breakdowns Produced water storage Antifreeze, workover fluids Workover fluids, solvents Staining and distressed vegetation Fire fighting foams Gasoline storage -include 1,2-dibromoethane (EDB) and 1,2-dichloroethane pre-1986 -include MTBE 1988-2001 Diesel storage Additive to gasoline pre-1986 and still being used for aviation fuel Crude oil storage - see F1/F2 For petroeum pipelines with a documented release For a sulfur pipeline with a documented release For diesel pipelines with a documented release For diesel pipelines with a documented release For diesel pipelines with a documented release For suspect poor quality backfill Staining and distressed vegetation Gasoline storage -include 1,2-dibromoethane (EDB) and 1,2-dichloroethane pre-1986 -include MTBE 1988-2001 Diesel storage Additive to gasoline pre-1986 and still being used for aviation fuel Upstream Crude Oil Storage
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Schedule 2 Use	Likely PCOCs	Possible PCOCs	
	•	Possible Parameter	Related Activity/Source
G2 Automotive Terrel Bur Culture of Other		ethylene glycol, propylene glycol	Known glycol spills, salvage or wrecking
G2. Automotive, Truck, Bus, Subway or Other	Waste Oil Metals, LEPH, HEPH, PAH, VPH, BTEX,	Lithium	Improper battery storage
Motor Vehicle Maintenance, Repair, Salvage or	Solvent VOC	PCB	Hydraulic oils were used prior to 1980 and presence of oil detected
Wrecking		-	Fuel storage - See F5
		copper, lead, antimony, tin, arsenic, and mercury	Blasting grit, antifouling paint, engine wear, and oil additives
G3. Dry docks, marinas, shipbuilding or boat		Antifouling Agents	Antifouling paint - primarily from 1970 to 2003
repair and maintenance, including paint	HEPH, LEPH, VPH, BTEX, PAH, Solvent VOC, Waste Oil	diuron, chlorothalonil, folpet, maneb,	
removal from hulls	Metals	thiocyanomethylbenzothiazole (TCMTB), thiram,	Antifouling paint. Mostly in use after 1989 after regulations limiting TBT (Tributyl tin) use.
		(cuprous) thiocyanate, and zineb.	
G5. Rail car or locomotive maintenance,		ethylene glycol, propylene glycol	Known glycol spills, salvage
cleaning, salvage or related uses, including	LEPH, HEPH, PAH, BTEX, Solvent VOC, metals	herbicides	Staining and distressed vegetation
railyards		PCB	Transformers in locomotives and self propelled rail cars
H1. Antifreeze bulk storage, recycling or			
shipping	Ethylene glycol, propylene glycol	-	-
- 1560		nonylphenol and nonylphenol ethoxylates	Surfactants
H11. Industrial woodwaste (log yard waste,		dioxins/furans	Burner ash (If burning marine or chlorophenol treated wood)
hogfuel) disposal	Non-chlorinated phenols	sodium ion and chloride ion	Buried woodwaste for marine water lots
		-	Buried waste is potentially treated - See I4/I6
H20. Municipal or provincial road or yard snow			
removal dumping	Sodium Ion, Chloride Ion	-	-
H21. Waste oil reprocessing, recycling or bulk	Waste Oil Metals, LEPH, HEPH, PAH, VPH, BTEX,		
storage	Solvent VOC	-	-
	Non-chlorinated Phenols, Ammonia, Chloride,		
I1. Particle or wafer board manufacturing	Nitrate, Nitrite, and Sulfate, Formaldehyde and	-	_
	Acetaldehyde		
	LEPH, HEPH, PAH, Chloride Ion, Sodium Ion, Sulfate and Sulfide, Metals	nonylphenol and nonylphenol ethoxylates	Surfactants
		phenols, non-chlorinated	Chip pile, buried wood waste, and liquor effluent
I2. Pulp mill operations		chlorinated phenols	Produced during some bleaching processes
·		dioxins/furans	Burner ash and bleaching processes.
		9,10-anthraquinone	Used in digesters for delignification
		phenols, non-chlorinated	Chip pile, buried wood waste, and liquor effluent
	LEPH, HEPH, PAH, Chloride Ion, Sodium Ion, Sulfate and Sulfide, Metals	chlorinated phenols	Produced during some bleaching processes
13. Pulp and paper manufacturing		dioxins/furans	Burner ash and bleaching processes.
	, in the second	9,10-anthraquinone	Used in digesters for delignification
		LEPH, HEPH, PAH, VPH, BTEX	PCP carrier oil
		boron, and mercury	Alternative Preservatives (borates, and phenylmercury acetate)
	Creosote: LEPH, HEPH, PAH, non-chlorinated phenols	propiconazole	Alternative preservative
14. Treated wood storage at the site of	Chlorinated Phenolics: chlorinated phenols	ammonia, nitrate, and nitrite	Preservative breakdown products
treatment	Copper Chromated Arsenate: arsenic, copper,		
	chromium	district of the same	Impurities in PCP preservatives. Secondary to PCP (i.e. unlikely to be present if PCP
		dioxins/furans	concentrations are not elevated).
	Non-chlorinated Phenols, Ammonia, Chloride, Nitrate,		
I5. Veneer or plywood manufacturing	Nitrite, and Sulfate, Formaldehyde and Acetaldehyde	-	-
	The same of the sa		
		LEPH, HEPH, PAH, VPH, BTEX	PCP carrier oil
	Creosote: LEPH, HEPH, PAH, non-chlorinated phenols	boron, and mercury	Alternative Preservatives (borates, and phenylmercury acetate)
Wood treatment (antisapstain or	Chlorinated Phenolics: chlorinated phenols	propiconazole	Alternative preservative
preservation)	Copper Chromated Arsenate: arsenic, copper,	ammonia, nitrate, and nitrite	Preservative breakdown products
	chromium		Impurities in PCP preservatives. Secondary to PCP (i.e. unlikely to be present if PCP
		dioxins/furans	concentrations are not elevated).
	l .	<u> </u>	

Acronyms:

PCOC - potential contaminant of concern

BTEX – benzene, toluene, ethylbenzene, xylenes

VOC – volatile organic compounds

VPH – volatile petroleum hydrocarbons LEPH and HEPH – light and heavy extractable petroleum hydrocarbons

PAH – polycyclic aromatic hydrocarbons

PCP - pentachlorophenol

PCB - polychlorinated biphenyl

PFBS - perfluorobutane sulfonate

PFOS - perfuorooctane sulfonate PFOA - perfluorooctanoic acid

Notes:

- 1. Parameter groups are defined in Table 3
- $2.\ PCOCs\ were\ selected\ based\ on\ the\ References\ in\ Section\ 4\ of\ the\ report\ and\ our\ collective\ industry\ experience.$
- 3. VPH should only be analyzed when investigating petroleum products. Solvent VOCs will interfere with the VPH result as they are caputured in the VH analysis, but not subtracted from it.



Table : PCOC Guidance for Common APECs



APEC	Likely PCOCs	Possible PCOCs		
		Possible Parameter	Related Activity/Source	
		LEPH, HEPH	If the second control is a long course broaden as a superior of the latest control of the second control of th	
Suspect Poor Quality Fill	Metals, PAH	BTEX	If there is a known hydrocarbon source or if field screening or observations	
		VPH	indicates a hydrocarbon source	
Cocoline AST/UST	LEPH, PAH, VPH, BTEX, Gasoline VOC	1,2-dibromoethane (EDB) and 1,2-dichloroethane	Additives pre-1986	
Gasoline AST/UST		MTBE	Additive to gasoline from 1988 - 2001	
		TEL	Additive to gasoline pre-1986	
Diesel AST/UST	LEPH, PAH, VPH, BTEX, Diesel VOC	-	-	
Waste Oil AST/UST	Waste Oil Metals, LEPH, HEPH, PAH	BTEX, Solvent VOC	If solvents are handled or used at the site	
		VPH	If petroleum based solvents are handled or used at the site	
Heating Oil AST/UST	LEPH, HEPH, PAH, VPH, BTEX	-	-	
Solvent AST/UST	BTEX, Solvent VOC	VPH	If petroleum based solvents are used at the site	
Inground Hydaulic Hoists	LEPH, HEPH, PAH	PCB	If hydraulic oils were used prior to 1980 and presence of oil detected	
Drycleaner	Drycleaning VOC	VPH, LEPH	If Stoddard solvent was used, primarily before 1970	
Welding Slag	metals	-	-	
Waste Sandbasting Grit	metals	-	-	

Acronyms:

APEC - area of potential environmental concern

PCOC - potential contaminant of concern

BTEX – benzene, toluene, ethylbenzene, xylenes

VOC – volatile organic compounds

VPH – volatile petroleum hydrocarbons LEPH and HEPH – light and heavy extractable petroleum hydrocarbons

PAH – polycyclic aromatic hydrocarbons

Notes:

- 1. Parameter groups are defined in Table 3
- 2. PCOCs were selected based on the References in Section 4 of the report and our collective industry experience.
- 3. VPH should only be analyzed when investigating petroleum products. Solvent VOCs will interfere with the VPH result as they are caputured in the VH analysis, but not subtracted from it.





PARAMATER GROUP	INDIVIDUAL PARAMETERS
	1,1,1-trichloroethane
	1,1,1,2-tetrachloroethane
	1,1,2,2-tetrachloroethane
	1,1,2-trichloroethane
	1,1-dichloroethane
	1,1-dichloroethylene
	1,2,4-trichlorobenzene
	1,2-dichlorobenzene
	1,2-dichloroethane
	1,2-dichloropropane
	2-butanone (MEK)
	2-hexanone (MBK)
	4-Methyl-2-pentanone (MIBK)
	acetone
Solvent Volatile Organic Compounds (VOC)	bromobenzene
	bromodichloromethane
	carbon disulphide
	carbon tetrachloride
	chlorobenzene
	chloroethane
	chloromethane
	cis-1,2-dichloroethylene
	dichlorodifluoromethane
	dichloromethane
	ethyl acetate
	Tetrachloroethylene
	trans-1,2-dichloroethylene
	Trichloroethylene
	vinyl chloride
	1,1,1-trichloroethane
	1,1-dichloroethane
	1,1-dichloroethylene
	1,2-dichloroethane carbon tetrachloride
Drysloaning VOC	chloroethane chloroform
Drycleaning VOC	
	cis-1,2-dichloroethylene Methylene Chloride (Dichloromethane)
	Tetrachloroethylene
	trans-1,2-dichloroethylene
	Trichloroethylene
	vinyl chloride
	1,2,4-trimethylbenzene
Diesel VOC	·
וחוביפו זיטי	1,3,5-trimethylbenzene n-decane
	ii-uecane





PARAMATER GROUP	INDIVIDUAL PARAMETERS
	1,2,4-trimethylbenzene
	1,2-dibromoethane (EDB)
	1,2-dichloroethane
Gasoline VOC	1,3,5-trimethylbenzene
	1,3-butadiene
	Cumene (Isopropylbenzene)
	methylcyclohexane
	methyl tert-butyl ether (MTBE)
	n-decane
	n-hexane
	cyclohexene
	benzene
BTEX	ethylbenzene
I I I I I I I I I I I I I I I I I I I	toluene
	xylene
Chlorinated Fluorocarbons (CFC)	trichlorofluoromethane (CFC-11)
	trichloro-1,1,2-trifluoroethane, 1,2,2- (CFC-113)
	chlorophenol, 2-
	chlorophenol, 3-
	chlorophenol, 4-
	dichlorophenol, 2,3-
	dichlorophenol, 2,4-
	dichlorophenol, 2,5-
	dichlorophenol, 2,6-
	dichlorophenol, 3,4-
	dichlorophenol, 3,5-
Chlorinated Phenols	pentachlorophenol [PCP]
	tetrachlorophenol, 2,3,4,5-
	tetrachlorophenol, 2,3,4,6-
	tetrachlorophenol, 2,3,5,6-
	trichlorophenol, 2,4,6-
	trichlorophenol, 2,3,4-
	trichlorophenol, 2,3,5-
	trichlorophenol, 2,3,6-
	trichlorophenol, 2,4,5-
	trichlorophenol, 3,4,5-





phenol dimethylphenol, 2,4- dimethylphenol, 2,6- dimethylphenol, 3,4- methylphenol, 2- methylphenol, 3 & 4- Phenols, Non-Chlorinated 2-Nitrophenol 4-Nitrophenol 2,4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2,4-Dibromophenol 2,4,6-Tribromophenol
dimethylphenol, 2,6- dimethylphenol, 3,4- methylphenol, 2- methylphenol, 3 & 4- Phenols, Non-Chlorinated 2-Nitrophenol 4-Nitrophenol 2,4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2,4-Dibromophenol
dimethylphenol, 3,4- methylphenol, 2- methylphenol, 3 & 4- Phenols, Non-Chlorinated 2-Nitrophenol 4-Nitrophenol 2,4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2,4-Dibromophenol
methylphenol, 2- methylphenol, 3 & 4- Phenols, Non-Chlorinated 2-Nitrophenol 4-Nitrophenol 2,4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2,4-Dibromophenol
Phenols, Non-Chlorinated 2-Nitrophenol 4-Nitrophenol 2,4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2,4-Dibromophenol
Phenols, Non-Chlorinated 2-Nitrophenol 4-Nitrophenol 2,4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2,4-Dibromophenol
4-Nitrophenol 2,4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2,4-Dibromophenol
2,4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2,4-Dibromophenol
2-Methyl-4,6-dinitrophenol 2,4-Dibromophenol
2,4-Dibromophenol
2.4.5 Tribromonhanol
[z,4,0-minophenol
Anthracene-d10
aluminum
antimony
arsenic
barium
beryllium
boron
cadmium
chromium, total
chromium, hexavalent
chromium, trivalent
cobalt
copper
iron
Metals
lithium
manganese
mercury
molybdenum
nickel
selenium
silver
strontium
thallium
tin
titanium
tungsten
vanadium
zinc





PARAMATER GROUP	INDIVIDUAL PARAMETERS
	aluminum
	arsenic
	barium
	cadmium
	chromium
Waste Oil Metals	copper
	lead
	mercury
	nickel
	silver
	zinc
	acenaphthene
	anthracene
	benz(a)anthracene
	benzo(a)pyrene
	benzo(b+j)fluoranthene
	benzo(ghi)perylene
	benzo(k)fluoranthene
	chrysene
Polycyclic Aromatic Hydrocarbons (PAH)	dibenz(a,h)anthracene
Polycyclic Albinatic Hydrocarbons (PAH)	fluoranthene
	fluorene
	indeno(1,2,3-cd)pyrene
	methylnaphthalene, 1-
	methylnaphthalene, 2-
	naphthalene
	phenanthrene
	pyrene
	quinoline
	dibutlytin
	methyl mercury
Antifouling Agents	tributyltin
Antirouning Agents	tricyclohexyltin
	triethyltin
	triphenyltin





PARAMATER GROUP	INDIVIDUAL PARAMETERS
	MCPP
	Bromoxynil
	Clopyralid
	Picloram
	2,4,5-T
	Fenoprop
	Chloramben
	Triclopyr
	MCPA
	Dinoseb
	2,4-DB
	Bentazon
	Dichlorprop(2,4-DP)
Herbicides	MCPB
	Dicamba
	2,4-D
	Dicamba-d3
	Fenoprop-d3
	Bentazon-d7
	Mecoprop-d3
	2,4-D-d3
	MCPA-d3
	Dinoseb-13C6
	2,4-DB-d3
	Triclopyr
	Acifluorfen
	Fenoprop

Notes:

- 1. Parameter groups were developed based on the References in Section 4 of the report, consultation with accredited BC-based laboratories, and our collective industry experience.
- 2. Waste oil metals were selected based on References 1, 5, 6, 11, 17, and 18

APPENDIX A

COMMON SCHEDULE 2 USES







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Land Use	Schedule 2 Land Use	Land		Number of times Schedule 2 Use	Proportion of Schedule 2 Uses
Code		Use Code	Schedule 2 Use as listed in CSR Stage 14 Amendments	listed in Site Profiles/SDS	listed in Site Profiles/SDS
F1	petroleum or natural gas drilling	F1	petroleum or natural gas drilling	798	35.5%
	petroleum of flutural gas arming		petroleum of fluturur gas arming	750	33.370
F2	petroleum or natural gas production facilities automotive, truck, bus, subway or other	F2	petroleum or natural gas production facilities automotive, truck, bus, subway or other motor	332	14.7%
G2	motor vehicle repair, salvage or wrecking	G2	vehicle repair, salvage or wrecking	191	8.5%
- 02	motor vernere repair, survage or wreeking	UZ.	petroleum product (other than compressed gas),	151	0.570
			or produced water storage in non-mobile above		
	petroleum product, other than compressed		ground or underground tanks, except above		
	gas, or produced water storage in above		ground tanks associated with emergency		
F7	ground or underground tanks	F7	generators or with secondary containment	149	6.6%
	petroleum product, other than compressed		petroleum product, other than compressed gas,		
	gas, dispensing facilities, including service		dispensing facilities, including service stations and		4.00/
F5	stations and card locks	F5	card locks	111	4.9%
E1	appliance, equipment or engine repair, reconditioning, cleaning or salvage	E1	appliance, equipment or engine maintenance, repair, reconditioning, cleaning or salvage	85	3.8%
	welding or machine shops (repair or		repair, reconditioning, cleaning or salvage	65	3.070
C6	fabrication)	C6	welding or machine shops (repair or fabrication)	65	2.9%
	petroleum, natural gas or sulphur pipeline		petroleum, natural gas or sulfur pipeline rights of		2.07.1
	rights of way excluding rights of way for		way excluding rights of way for pipelines used to		
	pipelines used to distribute natural gas to		distribute natural gas to consumers in a		
F6	consumers in a community	F6	community	48	2.1%
			dry cleaning facilities or operations and dry		
			cleaning chemical storage, excluding locations at		
	dry cleaning facilities or operations and dry		which clothing is deposited but no dry cleaning		. =-/
E9	cleaning chemical storage	E9	process occurs	38	1.7%
	controlled substances, as defined in the Controlled Drugs and Substances Act				
E11	(Canada), manufacturing or operations	-	repealed and replaced by A9	29	1.3%
LII	construction demolition material, including	_	repealed and replaced by A5	25	1.570
	without limitation asphalt and concrete,		landfilling of construction demolition material,		
Н6	landfilling	Н5	including without limitation asphalt and concrete	27	1.2%
-	sites which have been or likely have been		-		
	contaminated by substances migrating from				
	other properties	-	repealed	22	1.0%
19	sawmills	-	repealed	22	1.0%
E7	road salt storage facilities	E7	road salt or brine storage	17	0.8%
117	contaminated soil storage, treatment or	116	6. contaminated soil or sediment storage,	16	0.70/
H7	disposal 8. petroleum product, other than	Н6	treatment, deposit or disposal	16	0.7%
	compressed gas, wholesale bulk storage or		petroleum product, other than compressed gas,		
F8	distribution	F8	bulk storage or distribution	15	0.7%
	solvent manufacturing or wholesale bulk		0		
	storage	F10	solvent manufacturing or bulk storage	13	0.6%
	medical, chemical, radiological or biological		medical, chemical, radiological or biological		
	laboratories	E5	laboratories	12	0.5%
C4	metal salvage operations	C4	metal salvage operations	12	0.5%
	bulk commodity storage or shipping (e.g.				
G3	coal)	D2	coal coke manufacture, bulk storage or shipping	11	0.5%
U12	industrial woodwaste (log yard waste,	⊔11	industrial woodwaste (log yard waste, hogfuel)	0	0.49/
H13	hogfuel) disposal bulk manure stockpiling and high rate land	H11	disposal	9	0.4%
	application or disposal (nonfarm applications		bulk manure stockpiling and high rate land		
Н5	only)	Н4	application or disposal (nonfarm applications only)	9	0.4%
	- 11		sandblasting operations or sandblasting waste		5. 1,70
				I	0.40/
H17	sandblasting waste disposal	H15	disposal	9	0.4%
H17	sandblasting waste disposal	H15	disposal rail car or locomotive maintenance, cleaning,	9	0.4%
	sandblasting waste disposal truck, rail or marine bulk freight handling	H15	-	8	0.4%
			rail car or locomotive maintenance, cleaning,		





Land Use Code	Schedule 2 Land Use	Land Use Code	Schedule 2 Use as listed in CSR Stage 14 Amendments	Number of times Schedule 2 Use listed in Site Profiles/SDS	Proportion of Schedule 2 Uses listed in Site Profiles/SDS
	pharmaceutical products, or controlled				
	substances as defined in the Controlled Drugs		pharmaceutical products, or controlled substances		
	and Substances Act (Canada), manufacturing		as defined in the Controlled Drugs and Substances		
A9	or operations	A9	Act (Canada), manufacturing or operations	8	0.4%
H18	septic tank pumpage storage or disposal	H16	septic tank pumpage storage or disposal	8	0.4%
	electrical transmission or distribution				
B4	substations	B4	electrical transmission or distribution substations	8	0.4%
	dry docks, ship building or boat repair and				
	maintenance, including paint removal from	-	dry docks, marinas, shipbuilding or boat repair and		0.207
G4	hulls	G3	maintenance, including paint removal from hulls	7	0.3%
C1	foundries or scrap metal smelting	C1	foundries	7	0.3%
D 2	coal or lignite mining, milling, wholesale bulk	D2	coal or lignite mining, milling, bulk storage or	7	0.20/
D3	storage or shipping	D3	shipping	7	0.3%
H21	sludge drying or composting	H19	sludge drying or composting	6	0.3%
F2	ash deposit from boilers, incinerators, or	F2	ash deposit from boilers, incinerators or other	c	0.30/
E2	other thermal facilities	E2	thermal facilities	6	0.3%
H11	industrial waste lagoons or impoundments	H9	industrial waste lagoons or impoundments	р	0.3%
			asphalt and asphalt tar manufacture, storage and		
	asphalt tar manufacture, wholesale storage		distribution, including stationary asphalt batch	6	0.20/
E3	and distribution	E3	plants	6	0.3%
1142	industrial waste storage, recycling or	1140	to destrict the state of the st	-	0.20/
H12	landfilling	H10	industrial waste storage, recycling or landfilling	5	0.2%
1120	hazardous waste storage, treatment or	1140		-	0.20/
H20	disposal	H18	hazardous waste storage, treatment or disposal	5	0.2%
D4	battery (lead acid or other) manufacturing or	D4	la attanta de la companya della companya della companya de la companya della comp	-	0.20/
B1	wholesale bulk storage	B1	battery manufacturing, recycling or bulk storage	5	0.2%
	waste oil reprocessing, recycling or bulk	1124	and the second s	-	0.20/
H23	storage	H21	waste oil reprocessing, recycling or bulk storage	5	0.2%
	single or cumulative spills to the environment				
	greater than the reportable quantities of				
F12	substances listed in the Spill Reporting	repeal	unnania d	F	0.30/
E12	Regulation	ed	repealed	5	0.2%
D2	electrical equipment manufacturing,	D2	electrical equipment manufacturing, refurbishing	F	0.20/
B3	refurbishing or wholesale bulk storage	B3	or bulk storage	5 5	0.2%
C3	metal plating or finishing	C3	metal plating or finishing	5	0.2%
4.2	chemical manufacturing or wholesale bulk		ah anda da an an fa shadan an hadi atanan	-	0.20/
A2	storage	A2	chemical manufacturing or bulk storage explosives or ammunition manufacturing or bulk	5	0.2%
۸2	explosives or ammunition manufacturing or	^2		-	0.20/
A3	wholesale bulk storage mine tailings waste disposal	A3	storage mine tailings waste disposal	5 4	0.2% 0.2%
H14 H1	antifreeze bulk storage or recycling	H12 H1	antifreeze bulk storage, recycling or shipping	4	0.2%
п1	transformer oil manufacture, processing or	ПΤ	transformer oil manufacturing, processing or bulk	4	0.270
В6	wholesale bulk storage	В6	storage	3	0.1%
H10	electrical equipment recycling	Н8	electrical equipment recycling	3	0.1%
H3	battery (lead acid or other) recycling	B1	battery manufacturing, recycling or bulk storage	3	0.1%
H19	sewage lagoons or impoundments	H17	sewage lagoons or impoundments	3	0.1%
1113	communications stations using or storing	111/	facilities using equipment that contains PCBs	3	0.170
В2	equipment that contains PCBs	B2	greater than or equal to 50 ppm	3	0.1%
02	coal coke manufacture, wholesale bulk	52	D. Saret than or equal to 50 ppin	3	0.1/0
D2	storage or shipping	D2	coal coke manufacture, bulk storage or shipping	3	0.1%
			contaminated soil or sediment storage,		0.170
Н8	dredged waste disposal	Н6	treatment, deposit or disposal	3	0.1%
H9	drycleaning waste disposal	H7	dry cleaning waste disposal	3	0.1%
F3	natural gas processing	F3	natural gas processing	3	0.1%
1.5	fertilizer manufacturing or wholesale bulk	, ,	- See At Occasing	,	0.1/0
A5	storage	A5	fertilizer manufacturing, bulk storage or shipping	3	0.1%
G1	aircraft maintenance, cleaning or salvage	G1	aircraft maintenance, cleaning or salvage	3	0.1%
	petroleum refining wholesale bulk storage or		and the state of t		0.2,7
F9	shipping	F9	petroleum refining	2	0.1%
			Ison organi reminig		V.1/0





Land Use Code	Schedule 2 Land Use	Land Use Code	Schedule 2 Use as listed in CSR Stage 14 Amendments	Number of times Schedule 2 Use listed in Site Profiles/SDS	Proportion of Schedule 2 Uses listed in Site Profiles/SDS
	paint, lacquer or varnish manufacturing,				
	formulation, recycling or wholesale bulk		paint, lacquer or varnish manufacturing,		
A8	storage	A8	formulation, recycling or bulk storage	2	0.1%
15	veneer or plywood manufacturing	15	veneer or plywood manufacturing	2	0.1%
	ink or dye manufacturing or wholesale bulk				
A6	storage	A6	ink or dye manufacturing or bulk storage	2	0.1%
	organic or petroleum material landspreading		organic or petroleum material landspreading		
	(landfarming)	H14	(landfarming)	2	0.1%
D6	nonferrous metal mining or milling	D6	metal ore mining or milling	2	0.1%
	treated wood storage at the site of				
14	treatment	14	treated wood storage at the site of treatment	2	0.1%
	resin or plastic monomer manufacturing,		resin or plastic monomer manufacturing,		
A13	formulation or wholesale bulk storage	A13	formulation or bulk storage	2	0.1%
16	wafer board manufacturing	I1	particle or wafer board manufacturing	2	0.1%
	sulphur handling, processing or wholesale		sulfur handling, processing, or bulk storage and		
F11	bulk storage and distribution	F11	distribution	2	0.1%
	rifle or pistol firing ranges	E6	outdoor firearm shooting ranges	2	0.1%
H4	biomedical waste disposal	Н3	biomedical waste disposal	2	0.1%
H24	wire reclaiming operations	H22	wire reclaiming operations	1	0.0%
	fire retardant manufacturing or wholesale		fire retardant manufacturing, bulk storage or		
A4	bulk storage	A4	shipping	1	0.0%
	wood treatment (antisapstain or				
17	preservation)	16	wood treatment (antisapstain or preservation)	1	0.0%
A11	textile dying	A11	textile dyeing	1	0.0%
C5	nonferrous metal smelting or refining	C5	metal smelting or refining	1	0.0%
	pesticide manufacturing, formulation or		pesticide manufacturing, formulation, bulk		
A12	wholesale bulk storage	A12	storage or shipping	1	0.0%
G5	marine equipment salvage	G4	marine equipment salvage	1	0.0%
	nonferrous metal concentrate wholesale bulk				
D5	storage or shipping	D5	metal concentrate bulk storage or shipping	1	0.0%
	barrel, drum or tank reconditioning or		3 11 3		
H2	salvage	H2	barrel, drum or tank reconditioning or salvage	1	0.0%
			municipal or provincial road or yard snow removal		
H22	street or yard snow removal dumping	H20	dumping	1	0.0%
13	pulp and paper manufacturing	13	pulp and paper manufacturing	1	0.0%
-	-	B5	electronic equipment manufacturing	0	0.0%
_	-	C2	galvanizing	0	0.0%
-	-	E4	coal gasification (manufactured gas production)	0	0.0%
_	-	12	pulp mill operations	0	0.0%

Notes:

I3 Schedule 2 Use included in Table 1: PCOC Guidance for Select Schedule 2 Uses