

**Caltex Energy Inc.**  
Environmental Management System  
Part 2 - Waste Management

**14.3.4 Waste Management Tables – British Columbia (change according to WMP)**

BC Waste Name	Waste Class	TDG Shipping Name	TDG PIN	TDG Class	Packing Group	Required Document	Treatment	Storage	Disposal Options
Absorbents	Special Waste	Solids Containing Flammable Liquid	UN 3175	4.1	II	Recycle Docket	Drain and recover any free liquids	Covered, labeled container	<ul style="list-style-type: none"> <li>Recycle via Waste Broker</li> <li>Landfill - Class II</li> </ul>
Acid Solutions (Unneutralized)	Special Waste	Corrosive Liquid, N.O.S.	UN 1760	8	I II III	Manifest	Neutralize acid if possible. pH should be between 6.0- 9.9	Store in appropriate lined container	Disposal Well Class Ib if pH is (6.0-9.0) or Class Ia (higher than 12.5 or lower than 4.5)
Activated Carbon	Special Waste	Carbon, Activated	UN 1362	4.2	III	Manifest	Reuse / Regenerate	Store in appropriate lined container	<ul style="list-style-type: none"> <li>Thermal Treatment</li> <li>Landfill in an approved Class Ia, Ib or II landfill (If BTEX &gt; 1000 mg/kg, it cannot be landfilled)</li> </ul>
Activated Alumina	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Drain and capture free fluids.	Store in sealed, air-tight container	Containerized material may be taken to an approved Class II or higher landfill.
Aerosols (Empty)	N-Haz	None	N/A	N/A	N/A	N/A	Invert can, and remove all contents prior to storage and disposal.	Store in covered container. Keep away from heat or combustion sources.	Ensure container is empty and landfill
Alcohol (Methanol)	Special Waste	Alcohol, N.O.S.	UN 1987	3	II III	N/A	Re-use if applicable No treatment required	Store in covered container	Disposal Well Class 1b or return to supplier.
Antifreeze (GLYCOL)	Special Waste	Not Regulated	UN 1987	3	II III	N/A	Re-use if applicable No treatment required	Store in covered container	Disposal Well Class 1b or return to supplier
Asbestos, White	Special Waste	Asbestos, white	UN 2590	9	III	Manifest	Wet to reduce airborne dispersal	Must be double bagged	Landfill in an approved Class Ia, Ib or II landfill (must be covered immediately upon disposal)
Batteries (Dry Cell)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	No treatment required	Place in general refuse containers	Recycle or Municipal landfill

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BC Waste Name	Waste Class	TDG Shipping Name	TDG PIN	TDG Class	Packing Group	Required Document	Treatment	Storage	Disposal Options
Batteries (Wet Cell)	Special Waste	Batteries, Wet, Filled with Acid	UN 2794	8	III	Manifest	Remove and neutralize fluids, handle container and fluids separately.	Store in covered container. Keep away from heat or combustion sources.	<ul style="list-style-type: none"> <li>Recycle via battery recycler</li> <li>Dispose container at approved Class Ia, Ib or II landfill</li> </ul>
Boiler Blow Down Water	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Neutralize pH. Release to surface if material meets Surface Water Discharge Criteria	Store in a corrosive resistant container (fiberglass, etc.)	Reuse, Neutralize pH, surface Discharge, Disposal Well
Catalyst (Non-Sulphur)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Reuse / Regenerate	Store in an approved container	Landfill in an approved Class Ia, Ib or II landfill (If BTEX > 1000 mg/kg, it cannot be landfilled)
Catalyst (Sulphur)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Reuse / Regenerate	Store in an approved container	Landfill in an approved Class Ia, Ib or II landfill (If BTEX > 1000 mg/kg, it cannot be landfilled)
Caustic Solutions (Un-Neutralized, Spent)	Special Waste	Corrosive Liquid, N.O.S.	UN 1760	8	I II III	Manifest	Reuse, Neutralize pH	Store in a corrosive resistant container (fiberglass, etc.)	<ul style="list-style-type: none"> <li>Reuse, Neutralize Ph, surface Discharge,</li> <li>Disposal Well</li> </ul>
Cement (Returns Dry)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Reuse / Regenerate	Segregated as Domestic/Recyclable material unless contaminated with a SPECIAL WASTE	<ul style="list-style-type: none"> <li>Crush material and bury on lease with at least 1 meter of cover</li> <li>Landfill at an approved Class Ia, Ib, I, I or III Landfill</li> <li>Incorporate material into gravel on site or on entrance road.</li> </ul>
Chemicals (Inorganic)	Special Waste	Corrosive Liquid, N.O.S.	UN 1760	8	I II III	Manifest	Reuse, Neutralize pH	Store in a corrosive resistant container (fiberglass, etc.)	<ul style="list-style-type: none"> <li>Reuse, Neutralize Ph, surface Discharge,</li> <li>Disposal Well</li> </ul>
Chemicals (Organic)	Special Waste	Corrosive Liquid, N.O.S.	UN 1760	8	I II III	Manifest	Reuse, Neutralize pH	Store in a corrosive resistant container (fiberglass, etc.)	<ul style="list-style-type: none"> <li>Reuse, Neutralize Ph, surface Discharge,</li> <li>Disposal Well</li> </ul>
Construction and Demolition Material	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Reuse / Regenerate	Segregated as Domestic/Recyclable material unless contaminated with a SPECIAL WASTE	<ul style="list-style-type: none"> <li>Reuse</li> <li>Landfill at an approved Class Ia, Ib, II, or III landfill</li> </ul>

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BC Waste Name	Waste Class	TDG Shipping Name	TDG PIN	TDG Class	Packing Group	Required Document	Treatment	Storage	Disposal Options
Contaminated Soil (Chemicals)	Special Waste	Solids Containing Corrosive Liquid, N.O.S.	UN 3244	8	II	Manifest	Remove any free liquids prior to disposal.	Store on a covered, lined pad until disposal	<ul style="list-style-type: none"> <li>On-site bioremediation or</li> <li>Waste Treatment Facility</li> <li>Landfill.</li> <li>(Dependant on contaminant)</li> </ul>
Contaminated Soil (Crude / Condensate)	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN 3175	4.1	II	Manifest	Remove any free liquids prior to disposal.	Store on a covered, lined pad until disposal	<ul style="list-style-type: none"> <li>On-site bioremediation or</li> <li>Waste Treatment Facility</li> <li>Landfill.</li> <li>(Dependant on contaminant)</li> </ul>
Contaminated Soil (Mercury/Metals)	Testing Required	Refer to TDG dependent on specific waste characteristic	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Physical / Chemical Treatment	Store on a covered, lined pad until disposal	<ul style="list-style-type: none"> <li>Waste Treatment Facility</li> <li>Landfill.</li> <li>(Dependant on contaminant)</li> </ul>
Contaminated Soil (Pesticide / Herbicide)	Testing Required	Refer to TDG dependent on specific waste characteristic	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	On-site treatment (with activated carbon)	Store on a covered, lined pad until disposal	<ul style="list-style-type: none"> <li>Waste Treatment Facility</li> <li>Landfill.</li> <li>(Dependant on contaminant)</li> </ul>
Contaminated Soil (Produced Water)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Remove any free liquids prior to disposal.	Store on a covered, lined pad until disposal	<ul style="list-style-type: none"> <li>Waste Treatment Facility</li> <li>Landfill at approved Class Ia, Ib or II facility</li> </ul>
Contaminated Soil (Refined Oils / Fuel)	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN 3175	4.1	II	Manifest	Remove any free liquids prior to disposal.	Store on a covered, lined pad until disposal	<ul style="list-style-type: none"> <li>On-site bioremediation</li> <li>Waste Treatment Facility or</li> <li>Industrial Class Ia Landfill</li> </ul>
Contaminated Soil (Sulphur)	N-Haz	None	N/A	N/A	N/A	N/A	On-site Treatment may include lime addition to neutralize.	Store in covered container prior to disposal.	Material may be taken to an approved Class II or higher landfill.
Corrosion Inhibitor / Oxygen Scavenger Solutions	Special Waste	Refer to TDG dependent on specific waste characteristic	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Injection Well	Store in covered container prior to disposal.	Inject Down Class Ib/Ia disposal well depending on the amount of heavy metals
Crude Oil Emulsion	Special Waste	Flammable Liquid, N.O.S.	UN 1993	3	I II III	Manifest	Remove any free oil or water	Store in covered container prior to disposal.	Waste Treatment Facility

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Cutting Oil Tubes	N-Haz	None	N/A	N/A	N/A	N/A	Drain and recover free liquids	Store in covered container. Keep away from heat or combustion sources.	Material may be taken to an approved Class II or higher landfill.
Desiccant	Special Waste	Flammable Solid, Organic, N.O.S.	UN 1325	4.1	II III	Manifest	Drain and recover free liquids	Store in covered container. Keep away from heat or combustion sources.	Material may be taken to an approved Class II or higher landfill.
Dimethyl Disulphide Solutions	Special Waste	Zinc Chloride, Anhydrous	UN 2331	8	III	Manifest	Reuse if possible	Store in covered container prior to disposal.	<ul style="list-style-type: none"> <li>Return to Supplier</li> <li>Inject down Class Ia disposal well</li> </ul>
Domestic Garbage	N-Haz	None	N/A	N/A	N/A	N/A	Municipal Landfill	Store in a designated domestic garbage container	Municipal Landfill
Drums / Barrels (Methanol, Oil, Etc.)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Return to vendor Recycle Landfill	Empty, Store covered to prevent access to elements	<ul style="list-style-type: none"> <li>Return to vendor</li> <li>Recycle</li> <li>Approved Industrial Landfill</li> </ul>
Drilling Sump Materials (Gel Chem)	N-Haz	None	N/A	N/A	N/A	Truck ticket	Treat as Required	Store as Required	Dispose as Required
Drilling Sump Materials (Hydrocarbon)	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN 3175	4.1	II	Manifest	Treat as Required	Store as Required	Dispose as Required
Drilling Sump Materials (KCL)	N-Haz	None	N/A	N/A	N/A	Truck ticket	Treat as Required	Store Required	Dispose as Required
Filters (Air)	N-Haz	None	N/A	N/A	N/A	N/A	N/A	Domestic Refuse unless they are oil bath, then they must be drained	Municipal Landfill
Filters (Fuel Gas)	Special Waste	Diesel Fuel Fuel Oil Gas Oil Heating Oil	UN 1202	3	III	Manifest	Drain and collect liquids. Liquids should be Recycled Deep well Disposed – Ia or Ib	Store filters in a covered sealed container, away from sources of heat or spark.	Drain (24 hr) and crush – Class Ia or Ib Landfill

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Filters (Glycol)	Special Waste	Flammable Solid, Organic, N.O.S.	UN 1325	4.1	II III	Manifest	Drain and collect liquids. Liquids should be Recycled Deep well Disposed – Ia or Ib	Store filters in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Recycle via Waste Broker</li> <li>Landfill at class Ia, Ib or II facility,</li> <li>Thermal treatment.</li> </ul>
Filters (Lube Oil, Undrained)	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN 3175 OR UN 3077	4.1 9	II III	Recycle Docket	Drain and crush	Store filters in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Recycle via Waste Broker</li> <li>Incinerate,</li> <li>Approved Industrial Landfill</li> </ul>
Filters (Other, Mix)	Special Waste	Flammable Solid, Organic, N.O.S.	UN 1325	4.1	II III	Manifest	Drain and collect liquids. Liquids should be Recycled Deep well Disposed – Ia or Ib	Store filters in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Recycle, via Waste Broker</li> <li>Incinerate,</li> <li>Approved Industrial Landfill</li> </ul>
Filters (Gas Sweetening, Amine, Sulphinol)	Special Waste	Flammable Solid, Organic, N.O.S.	UN 1325	4.1	II III	Manifest	Drain and contain free fluid. Fluids are SPECIAL WASTE. Recycle filters (metal)	Store in an airtight container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Thermal treatment,</li> <li>Containerized waste may be disposed at Class Ia or Ib landfill.</li> </ul>
Filters (Produced Water)	N-Haz	None	N/A	N/A	N/A	Recycle Docket	Drain to remove free liquids.	Store filters in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Recycle via Waste Broker</li> <li>Incinerate,</li> <li>Approved Industrial Landfill</li> </ul>
Filters (Methanol)	Special Waste	Flammable Solid, Organic, N.O.S.	UN 1325	4.1	II III	Manifest	Drain and contain free fluid. Fluids are SPECIAL WASTE. Recycle filters (metal)	Store filters in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Recycle, via Waste Broker</li> <li>Incinerate,</li> <li>Approved Industrial Landfill</li> </ul>
Filter Backwash Liquids (Gas Sweetening)	Special Waste	Refer to TDG dependent on specific waste characteristic	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Deep well Disposed – Ia or Ib	Store in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Inject down Class Ia or Ib disposal well.</li> </ul>
Frac Sand (Non Radioactive)	Special Waste	Flammable Solid, Organic, N.O.S.	UN1325	4.1	II III	Manifest	Remove free fluid prior to disposal	Store in covered container.	<ul style="list-style-type: none"> <li>Recycle, via Waste Broker</li> <li>Incinerate,</li> <li>Approved Industrial Landfill</li> </ul>
Frac Sand (Radioactive)	Special Waste	Flammable Solid, Organic, N.O.S.	UN 1325	4.1	II III	Manifest	Remove free fluid prior to disposal	Store in covered container.	<ul style="list-style-type: none"> <li>Recycle, via Waste Broker</li> <li>Incinerate,</li> <li>Approved Industrial Landfill</li> </ul>

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<b>Glycol Solutions (Heavy Metals)</b>	<b>Special Waste</b>	<b>Flammable Liquid, N.O.S.</b>	<b>UN 1993 OR UN 3082</b>	<b>3 9</b>	<b>I III</b>	Recycle Docket	Do not mix waste with other materials (i.e. lube oil)	Store in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Return to supplier.</li> <li>Recycle through Waste Broker</li> <li>Dispose at Swan Hills</li> </ul>
<b>Glycol Solutions (No Heavy Metals)</b>	<b>N-Haz</b>	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	Recycle Docket	Do not mix waste with other materials (i.e. lube oil)	Store in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Return to supplier.</li> <li>Recycle through Waste Broker</li> </ul>
<b>Grease Cartridges</b>	<b>N-Haz</b>	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	Bill of Lading	Remove all grease from cartridges	Store with general refuse	<ul style="list-style-type: none"> <li>Landfill – Municipal</li> </ul>
<b>Hydraulic Oil</b>	<b>Special Waste</b>	<b>Petroleum Crude Oil</b>	<b>UN 1267 OR UN 3082</b>	<b>3 9</b>	<b>I III</b>	Recycle Docket	Do not mix waste with other materials (i.e. glycol, etc.)	Store in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Return to supplier.</li> <li>Recycle through Waste Broker</li> </ul>
<b>Incinerator Ash</b>	<b>Testing Required</b>	<b>Refer to TDG dependent on specific waste characteristic</b>	<b>Refer to TDG</b>	<b>Refer to TDG</b>	<b>Refer to TDG</b>	Manifest	Physical/Chemical Treatment	Store in covered container.	<ul style="list-style-type: none"> <li>Landfill – Ia, Ib, or II</li> <li>Recycle through Waste Broker</li> </ul>
<b>Iron Sponge</b>	<b>Special Waste</b>	<b>Iron Sponge, Spent</b>	<b>UN 1376</b>	<b>4.2</b>	<b>III</b>	Manifest	Keep wet to avoid spontaneous combustion; isolate from acidic solutions	Store material in a covered, sealed container	<ul style="list-style-type: none"> <li>Reuse / Regenerate</li> <li>Landfill at approved Class Ia or Ib</li> </ul>
<b>Lead Based Products (H<sub>2</sub>S Sensing Tape)</b>	<b>Special Waste</b>	<b>Lead Acetate</b>	<b>UN 1616</b>	<b>6.1 (9.2)</b>	<b>III</b>	Manifest		Store material in a covered, sealed container	<ul style="list-style-type: none"> <li>Landfill at approved Class Ia or Ib landfill</li> </ul>
<b>Lead Based Products (Pipe Dope/Greases)</b>	<b>Special Waste</b>	<b>Refer to TDG dependent on specific waste characteristic</b>	<b>Refer to TDG</b>	<b>Refer to TDG</b>	<b>Refer to TDG</b>	Manifest	Thermal treatment	Store material in a covered, sealed container	<ul style="list-style-type: none"> <li>Recycle if possible</li> <li>Landfill at an approved Class Ia or Ib landfill</li> </ul>
<b>Lube Oils</b>	<b>Special Waste</b>	<b>Flammable Liquid, N.O.S.</b>	<b>UN 1993 OR UN 3082</b>	<b>3 9</b>	<b>I III</b>	Recycle Docket	Do not mix waste with other materials (i.e. glycol, etc.)	Store in a covered sealed container, away from sources of heat or spark.	<ul style="list-style-type: none"> <li>Return to supplier.</li> <li>Recycle through Waste Broker</li> </ul>
<b>Oily Rags</b>	<b>Special Waste</b>	<b>Environ. Hazardous Substance, Solid, N.O.S.</b>	<b>UN 3077</b>	<b>9</b>	<b>III</b>	Recycle Docket	Remove all free liquids prior to disposal	Store material in a covered, sealed container	<ul style="list-style-type: none"> <li>Recycle through Waste Broker</li> <li>Remove free liquids and Landfill</li> </ul>

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<b>Metal (Scrap)</b>	N-Haz	None	N/A	N/A	N/A	Bill of Lading	None	Store away from other wastes to prevent contamination.	• Recycle
<b>Mercury</b>	Special Waste	Mercury	UN 2809	8	III	Manifest	Do not mix with other material	Store in sealed container	Swan Hills
<b>Hydrotest Fluids - Methanol</b>	Special Waste	Methanol	UN 1230	3.2 (6.1)	II	Manifest	Reuse material in other processes	Store in a covered sealed container, away from sources of heat or spark.	• Reuse • Recycle • Disposal Well
<b>Naturally Occurring Radioactive Materials (NORM)</b>	Special Waste			7		Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
<b>Paint (Wet Paint - Flammable)</b>	Special Waste	Paint or Paint Related Material	UN 1263	3 (8)	I II III	Manifest	Remove lid and allow paint to dry out. Once dry the waste is considered an 'empty container' and may be treated as such.	Store material in a sealed covered container to prevent access by the elements.	Thermal Treatment, Recycle, Toxic Round-up (sm. Volume)
<b>Paint (Wet Paint) (Corrosive)</b>	Special Waste	Paint or Paint Related Material	UN 3066	8 (3)	II	Manifest	Remove lid and allow paint to dry out. Once dry the waste is considered an 'empty container' and may be treated as such.	Store material in a sealed covered container to prevent access by the elements.	Thermal Treatment, Recycle, Toxic Round-up (sm. Volume)
<b>Paint (Cans and Brushes)</b>	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Remove lid and allow contents to dry	Store material in a sealed covered container to prevent access by the elements.	Dispose dry material in a landfill
<b>Pesticides /Herbicides</b>	Special Waste	Refer to TDG dependent on specific waste characteristic	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Thermal Treatment	Store material in a covered, sealed container	Utilize third party certified applicators for the disposal of pesticides when possible.

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Pipe Dope Containers (Lead And Non-Lead)	N-Haz	None	N/A	N/A	N/A	N/A	Open container and allow contents to dry out.	Store material in a sealed covered container to prevent access by the elements.	Dispose material at an approved Class Ia, Ib or II landfill
Polychlorinated Biphenyls (PCB's) (Askarel Liquids)	Special Waste	PCB **	UN 2315	9.1 9.2	II	Manifest	Direct to an approved hazardous waste disposal facility	Store material in a covered, sealed container	Direct to an approved hazardous waste disposal facility
Polychlorinated Biphenyls (PCB's) (Contaminated Solids ≤ 50ppm)	N-Haz	PCB **	N/A	N/A	N/A	N/A	Landfill	Store material in a covered, sealed container	Landfill at an approved Class Ia or Ib landfill.
Polychlorinated Biphenyls (PCB's) (Contaminated Solids ≥ 1000ppm)	Special Waste	PCB **	UN 2315	9.1 9.2	II	Manifest	Direct to an approved hazardous waste disposal facility	Store material in a covered, sealed container	Direct to an approved hazardous waste disposal facility
Polychlorinated Biphenyls (PCB's) (Contaminated Solids ≥ 50ppm and ≤ 1000ppm)	Special Waste	PCB **	UN 2315	9.1 9.2	II	Manifest	Direct to an approved hazardous waste disposal facility	Store material in a covered, sealed container	<ul style="list-style-type: none"> <li>• Direct to an approved hazardous waste disposal facility</li> <li>• Landfill at an approved Class Ia or Ib landfill</li> </ul>
Polychlorinated Biphenyls (PCB's) (Fluorescent Light Ballasts)	Special Waste	PCB **	UN 2315	9.1 9.2	II	Manifest	Direct to an approved hazardous waste disposal facility	Store material in a covered, sealed container	<ul style="list-style-type: none"> <li>• Direct to an approved hazardous waste disposal facility</li> <li>• Landfill at an approved Class Ia or Ib landfill</li> </ul>
Pigging Waste (Liquid And Wax)	Special Waste	Flammable Solid, Organic, N.O.S.	UN 1325	4.1	II	Manifest	Remove and collect all free fluids prior to disposal	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	Free fluids should be deep well disposed. Waste Treatment Facility should recover oil and solids should be landfilled

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Produced Sand	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN3175	4.1	II	Manifest	Remove and collect all free fluids prior to disposal	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	Free fluids should be deep well disposed. Waste Treatment Facility should recover oil and solids should be landfilled
Rig Wash (Powdered)	Refer To MSDS	Refer to MSDS					Refer to MSDS	Refer to MSDS	Refer to MSDS
Rig Wash (Liquid)	Refer To MSDS	Refer to MSDS					Refer to MSDS	Refer to MSDS	Refer to MSDS
Salt Heat Medium	Testing Required	Refer to TDG dependent on specific waste characteristic	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Physical / Chemical Treatment	Store material in a covered, sealed container	Solubilize using an existing aqueous waste stream and inject down an Class 1a or 1b disposal well
Sludge (Cooling Tower)	Special Waste	Refer to TDG dependent on specific waste characteristic	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Physical / Chemical Treatment	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	Cavern Disposal
Sludge (Crude Oil, Tank Bottoms)	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN 3175	4.1	II	Manifest	Remove and collect all free fluids prior to disposal	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	Waste Treatment Facility should recover oil and solids should be landfilled
Sludge (Gas Sweetening Systems)	Special Waste	Refer to TDG dependent on specific waste characteristic	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Physical, chemical or thermal Treatment	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>• Biodegradation</li> <li>• Landfill in approved Class 1a or 1b Landfill</li> </ul>
Sludge (Glycol)	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN3175	4.1	II	Manifest	Remove and collect all free fluids prior to disposal	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>• Free fluids should be deep well disposed.</li> <li>• Solids should be treated and then landfilled</li> </ul>
Sludge (Flare Pit)	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN3175	4.1	II	Manifest	Remove and collect all free fluids prior to disposal	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>• Free fluids should be deep well disposed.</li> <li>• Solids should be treated and then landfilled</li> </ul>

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BC Waste Name	Waste Class	TDG Shipping Name	TDG PIN	TDG Class	Packing Group	Required Document	Treatment	Storage	Disposal Options
Sludge (Lime)	Testing Required	Refer to TDG <i>dependent on specific waste characteristic</i> N.O.S.	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Co-dispose with Sulphur.	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Co-dispose with sulphur containing wastes or soil at an approved Class Ia, Ib, or II landfill depending on specific characteristics.</li> </ul>
Sludge (Process)	Testing Required	Refer to TDG <i>dependent on specific waste characteristic</i> N.O.S.	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Physical, chemical or thermal treatment	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Landfill at approved Class Ia, Ib, or II Landfill depending on characteristics</li> <li>Biodegradation</li> </ul>
Sludge (Sulphur)	Testing Required	Refer to TDG <i>dependent on specific waste characteristic</i>	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Co-dispose with slightly basic wastes or soil.	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Co-dispose with slightly basic wastes or soil at an approved Class Ia, Ib, or II landfill depending on specific characteristics.</li> </ul>
Solvents / Residues (Halogenated)	Special Waste	Refer to TDG <i>dependent on specific waste characteristic</i>	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Thermal Treatment	Store material in a covered container	<ul style="list-style-type: none"> <li>Recycle</li> </ul>
Solvents / Residues (Non-Halogenated Aliphatic)	Special Waste	Refer to TDG <i>dependent on specific waste characteristic</i>	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Thermal Treatment	Store material in a covered container	<ul style="list-style-type: none"> <li>Recycle</li> </ul>
Solvents / Residues (Non-Halogenated Aromatic)	Special Waste	Refer to TDG <i>dependent on specific waste characteristic</i>	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Thermal Treatment	Store material in a covered container	<ul style="list-style-type: none"> <li>Recycle</li> </ul>
Spill Material (Hydrocarbon)	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN 3175	4.1	II	Manifest	Remove and collect all free fluids prior to disposal	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Free fluids should be deep well disposed.</li> <li>Solids should be treated and then landfilled</li> </ul>
Spill Material (Produced Water)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Remove and collect all free fluids prior to disposal	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Free fluids should be deep well disposed.</li> <li>Solids should be treated and then landfilled</li> </ul>

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**Waste Management Tables - British Columbia**

BC Waste Name	Waste Class	TDG Shipping Name	TDG PIN	TDG Class	Packing Group	Required Document	Treatment	Storage	Disposal Options
Spill Material (Refined Oil / Fuel)	Special Waste	Solids Containing Flammable Liquid, N.O.S.	UN 3175	4.1	II	Manifest	Remove and collect all free fluids prior to disposal	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Free fluids should be deep well disposed.</li> <li>Waste Treatment Facility should recover oil</li> <li>Solids should be landfilled</li> </ul>
Sweetening Agents (Liquids, - Amine)	Special Waste	Methylamine Aqueous Solution	UN 1235	3 (8)	II	Manifest	Remove free fluids prior to disposal (if contaminated soil)	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Free fluids should be deep well disposed.</li> <li>Waste Treatment Facility should recover oil</li> <li>Solids should be landfilled</li> </ul>
Sweetening Agents (Other Than Amine)	Special Waste	Corrosive Liquid, Flammable N.O.S.	UN 2920	8 (3)	I II	Manifest	Remove free fluids prior to disposal (if contaminated soil)	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Free fluids should be deep well disposed.</li> <li>Waste Treatment Facility should recover oil</li> <li>Solids should be landfilled</li> </ul>
Waste Water (Wash Water)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Recover all hydrocarbon if possible	Store material in an appropriate container.	Water may be released if it meets the Surface Water Discharge Criteria or send to a disposal well.
Sweetening Agents (Solids)	Special Waste	Corrosive Solid, Flammable, N.O.S.	UN 2921	8 (4.1)	I II	Manifest	Remove free fluids prior to disposal (if contaminated soil)	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Free fluids should be deep well disposed.</li> <li>Waste Treatment Facility should recover oil</li> <li>Solids should be landfilled</li> </ul>
Thread Protectors (Casing/Tubing)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Reuse or Recycle	Store material in an appropriate container.	<ul style="list-style-type: none"> <li>Reuse/Recycle</li> <li>Landfill at an approved Class Ia, Ib, II, or III Landfill</li> </ul>
Treater Hay	SEM Regulated Waste	Solid Containing Flammable Liquids, N.O.S.	UN 3175	4.1	II	Manifest	Remove and collect all free fluids prior to disposal	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Free fluids should be deep well disposed.</li> <li>Waste Treatment Facility should recover oil</li> <li>Solids should be landfilled</li> </ul>
Varsol	Special Waste	Flammable Liquid, N.O.S.	UN 1993	3	I II III	Manifest	Reuse if possible, no treatment required	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Thermal Treatment</li> <li>Recycle</li> </ul>

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BC Waste Name	Waste Class	TDG Shipping Name	TDG PIN	TDG Class	Packing Group	Required Document	Treatment	Storage	Disposal Options
Wash Fluids (Hydrocarbon)	Special Waste	Flammable Liquid, N.O.S.	UN 1993	3	I II III	Manifest	Recover all hydrocarbons prior to disposal.	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Free fluids should be deep well disposed.</li> <li>Waste Treatment Facility should recover oil</li> <li>Solids should be landfilled</li> </ul>
Wash Fluids (Acid)	Special Waste	Corrosive Liquid, N.O.S.	UN 1760	8	I II III	Manifest	Recover all hydrocarbons prior to disposal. Neutralize Acids.	Store material in a covered container to prevent access to the elements. Store away from sources of spark or flame.	<ul style="list-style-type: none"> <li>Free fluids should be deep well disposed.</li> <li>Waste Treatment Facility should recover oil</li> <li>Solids should be landfilled</li> </ul>
Wash Fluids (Organic)	Testing Required	Refer to TDG <i>dependent on specific waste characteristic</i>	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Thermal Treatment	Store in a covered container	<ul style="list-style-type: none"> <li>Recycle</li> <li>Recover hydrocarbons and inject down 1a or 1b disposal Well</li> </ul>
Water Process (with Organic Chemicals)	Testing Required	Refer to TDG <i>dependent on specific waste characteristic</i>	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Inject down disposal well	Store in a covered container	Inject down Class 1a or 1b disposal well depending on pH.
Water Process (with Heavy Metals)	Special Waste	Refer to TDG <i>dependent on specific waste characteristic</i>	Refer to TDG	Refer to TDG	Refer to TDG	Manifest	Inject down disposal well	Store in a covered container	Inject down Class 1a or 1b disposal well depending on pH.
Water (Produced including Brine Solutions)	N-Haz	None	N/A	N/A	N/A	Bill of Lading	Recycle / Recover	Store in a covered container	<ul style="list-style-type: none"> <li>Recycle</li> <li>Recover hydrocarbons and inject down 1a or 1b disposal Well</li> </ul>
Well Workover Fluids (Acid Solutions)	Special Waste	Corrosive Liquid, N.O.S.	UN1760	8	I II III	Manifest	Recover all hydrocarbons prior to disposal. Neutralize Acids.	Store material in a suitable, corrosion resistant tank.	Acid solutions should be deep-well disposed (Class 1a or 1b)
Well Workover Fluids (Hydrocarbon / Distillate)	Special Waste	Petroleum Crude Oil	UN1267	3	I II III	Manifest	Recover all hydrocarbons prior to disposal.	Store material in a suitable, corrosion resistant tank.	Acid solutions should be deep-well disposed (Class 1a or 1b)
Well Servicing Fluids - Versene	Refer To MSDS	Refer to MSDS					Refer to MSDS	Refer to MSDS	Refer to MSDS

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BC Waste Name	Waste Class	TDG Shipping Name	TDG PIN	TDG Class	Packing Group	Required Document	Treatment	Storage	Disposal Options
Well Servicing Cement Returns	N-Haz	N/A	N/A	N/A	N/A	N/A	Reuse if applicable Let harden and remove	All run off is to be contained and disposed	<ul style="list-style-type: none"> <li>• Class II Landfill</li> <li>• Recycle</li> </ul>
Wood (Chemically Treated/Cooling Tower)	Testing Required	Refer to TDG dependent on specific waste characteristic	Refer to TDG	Refer to TDG	Refer to TDG	Manifest			Landfill at an approved Class Ia, Ib, or II Landfill depending on characteristics.
Sample Bottles	N-Haz	N/A	N/A	N/A	N/A	N/A	Wash and Recycle	Weather Protection	Recycle or Municipal Landfill
Pails (Plastic, Metal)	N-Haz	N/A	N/A	N/A	N/A	N/A	Wash / Rinse	Weather Protection	Return to Supplier, recycle or municipal landfill.
Waste Compressed or Liquefied Gases	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	2	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
Waste Flammable Liquid	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	3	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
Waste Flammable Solid	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	4	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
Waste Oxidizing Liquid	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	5	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
Waste Oxidizing Solid	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	5	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
Waste Poisonous Liquid	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	6	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste

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BC Waste Name	Waste Class	TDG Shipping Name	TDG PIN	TDG Class	Packing Group	Required Document	Treatment	Storage	Disposal Options
Waste Poisonous Solid	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	6	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
Waste Radioactive Material	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	7	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
Waste Corrosive Liquid	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	8	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
Waste Corrosive Solid	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	8	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste
Waste Miscellaneous	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste	9	Depends on Specific Waste	Manifest	Depends on Specific Waste	Depends on Specific Waste	Depends on Specific Waste

**PCB\*\* = Polychlorinated Biphenyls**

**NOTE:** Produced Water containing H<sub>2</sub>S / Iron sulphide and any other non-SPECIAL WASTE materials is a Non-Listed Waste and does not have to be manifested or tracked as a waste. If Produced water has products in them such as heavy metals etc. from glycol, or Xylene from a completion job, that would be a SPECIAL WASTE, then it would become a SPECIAL WASTE because of products in the water, not because it is produced water. **If there are any questions about a waste please call Visser Consulting Ltd. for help at (403) 239-3797.**

Hydraulic Oil, Lube Oils, Glycol Solutions, and Un-drained Filters may have two different TDG Pin Numbers because of their characteristics. They may have characteristics that classify them as being flammable or characteristics that classify them as being hazardous to the environment. Choose the correct TDG Pin Number that is associated with the characteristics of the waste.