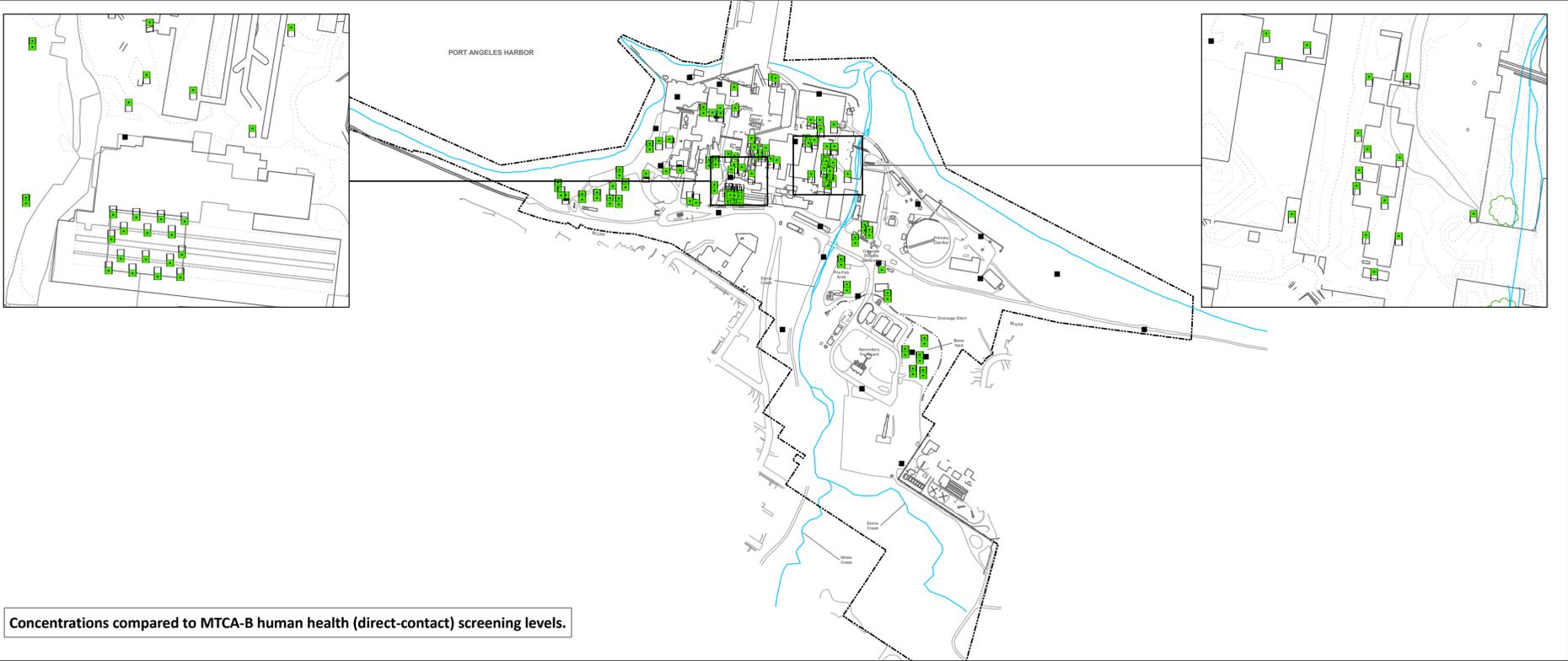


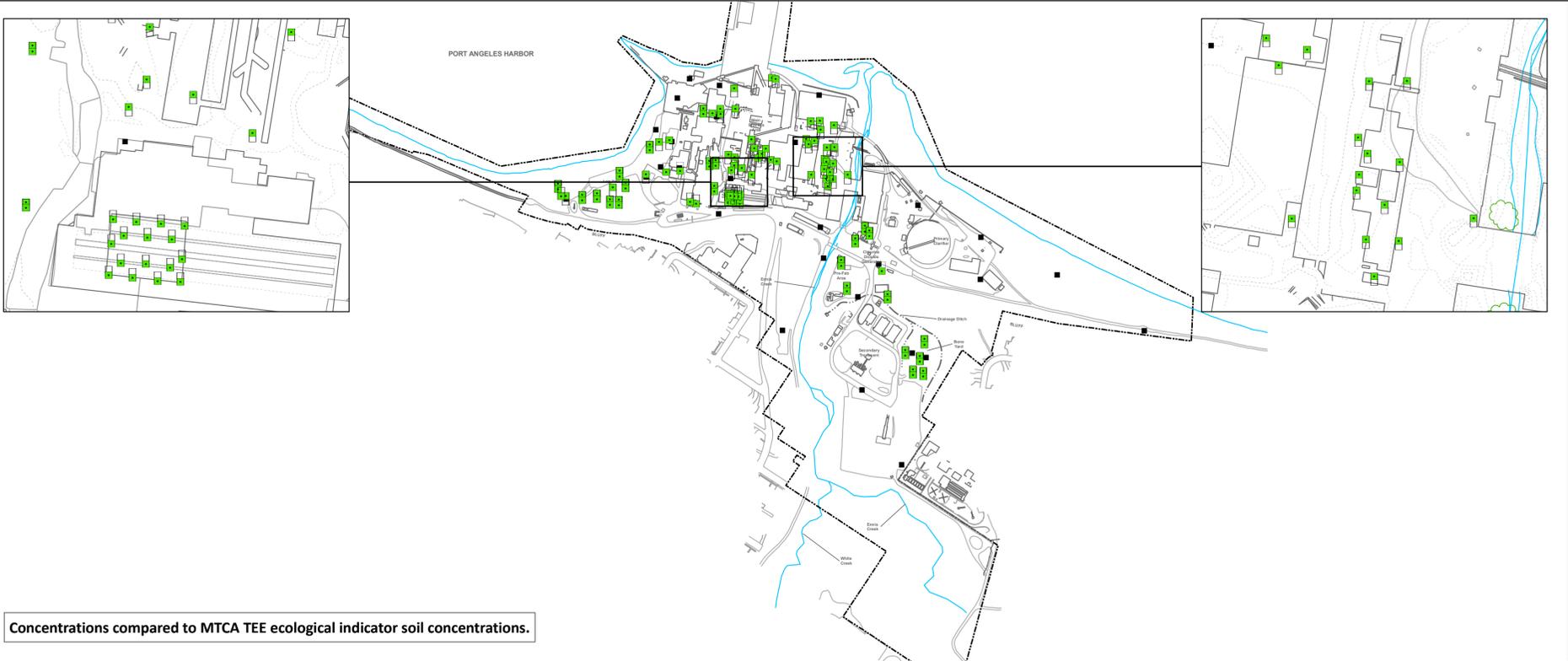
**Volatile Organic Compound Concentrations in Soil**  
 Port Angeles Rayonier Mill Study Area  
 Port Angeles, Washington

**GEOENGINEERS**

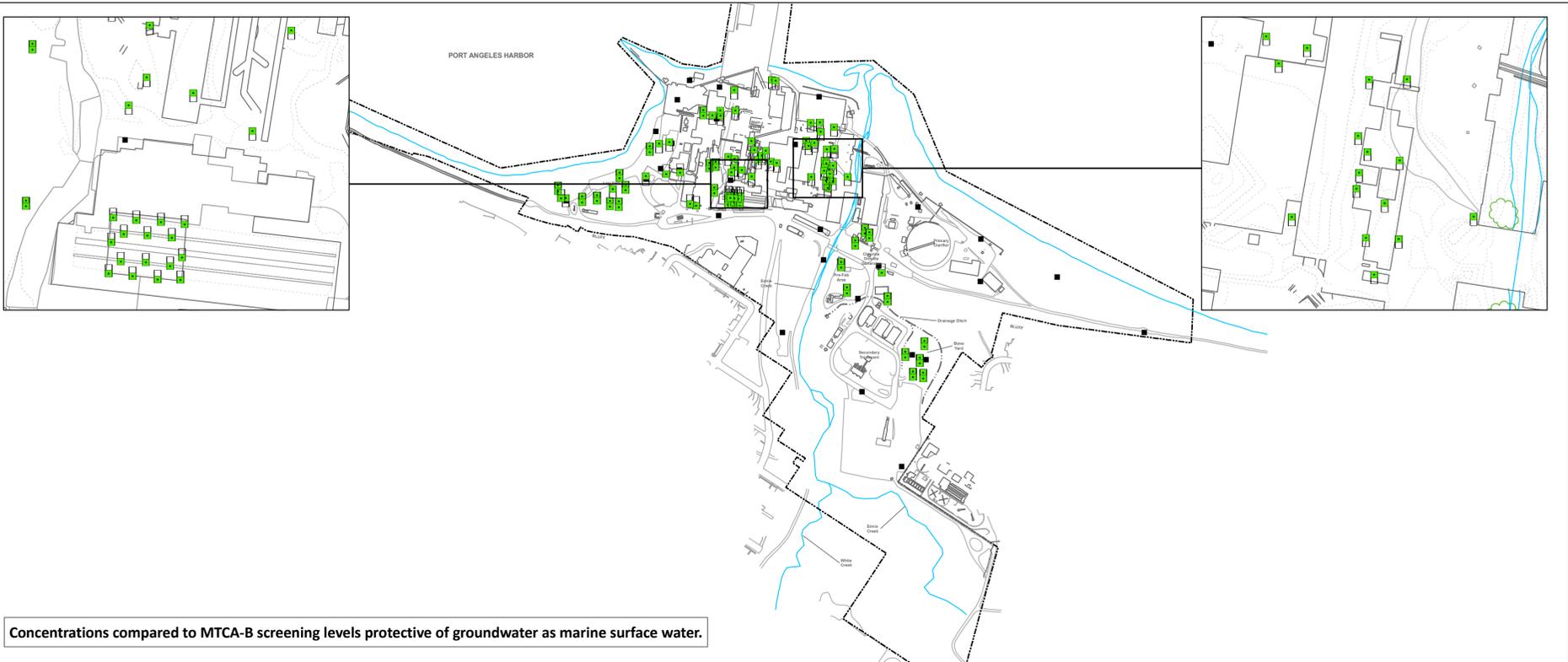
**Figure 10A**



Concentrations compared to MTCA-B human health (direct-contact) screening levels.



Concentrations compared to MTCA TEE ecological indicator soil concentrations.



Concentrations compared to MTCA-B screening levels protective of groundwater as marine surface water.

**Explanation**  
 Volatile Organic Compound Concentrations in Soil  
 (Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.

- Monitoring Well Locations
- Upland Study Area



**Volatile Organic Compound  
 Concentrations in Soil by Exposure Pathway**

Port Angeles Rayonier Mill Study Area  
 Port Angeles, Washington



Figure 10B

Office: SEA  
 Path: \SEA\projects\010137015\GIS\013701503\_F10B\_VOC\_BTEX\_SL\_Comparison.mxd  
 Map Revised: July 16, 2010  
 TCK.CRC

Notes:  
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.  
 2. The locations of all features shown are approximate.  
 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Analyte	Depth Description	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
bis(2-Ethylhexyl)phthalate	Surface Sample (0 to 2 feet)	ug/kg	4900	2	81	1	8300	8300
bis(2-Ethylhexyl)phthalate	Subsurface Sample (>2 feet)	ug/kg	4900	2	52	1	1800000	1800000
Pentachlorophenol	Surface Sample (0 to 2 feet)	ug/kg	48	2	85	19	65	26000
Pentachlorophenol	Subsurface Sample (>2 feet)	ug/kg	48	2	52	1	400	400
Pyrene	Surface Sample (0 to 2 feet)	ug/kg	2400000	4	90	1	14000000	14000000

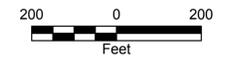
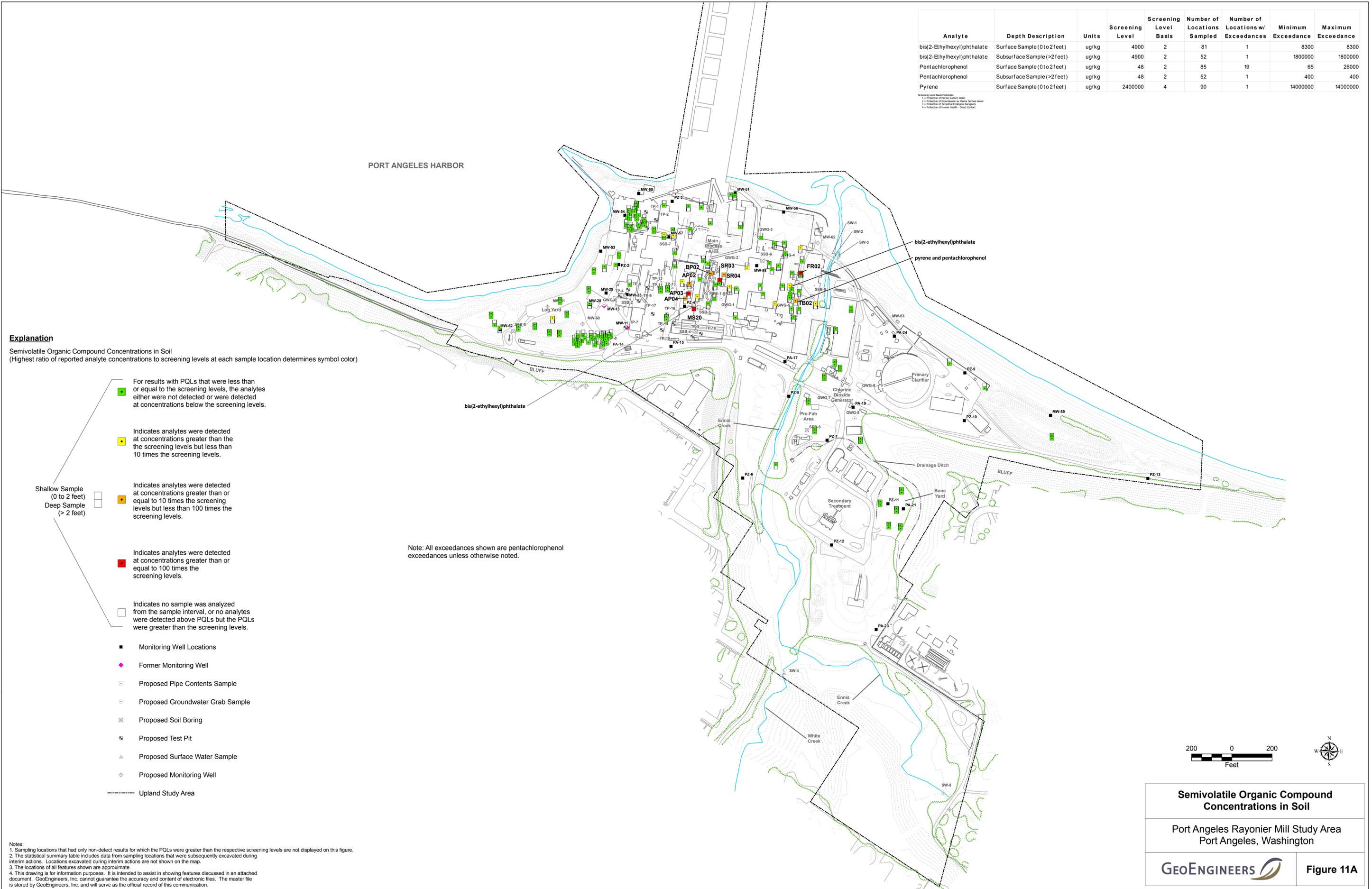
Screening Level Basis:  
 1 - Protection of Marine Surface Water  
 2 - Protection of Groundwater as Marine Surface Water  
 3 - Protection of Groundwater as Freshwater  
 4 - Protection of Human Health - Direct Contact

**Explanation**

Semivolatile Organic Compound Concentrations in Soil  
 (Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.
- Monitoring Well Locations
- Former Monitoring Well
- Proposed Pipe Contents Sample
- Proposed Groundwater Grab Sample
- Proposed Soil Boring
- Proposed Test Pit
- Proposed Surface Water Sample
- Proposed Monitoring Well
- Upland Study Area

Note: All exceedances shown are pentachlorophenol exceedances unless otherwise noted.



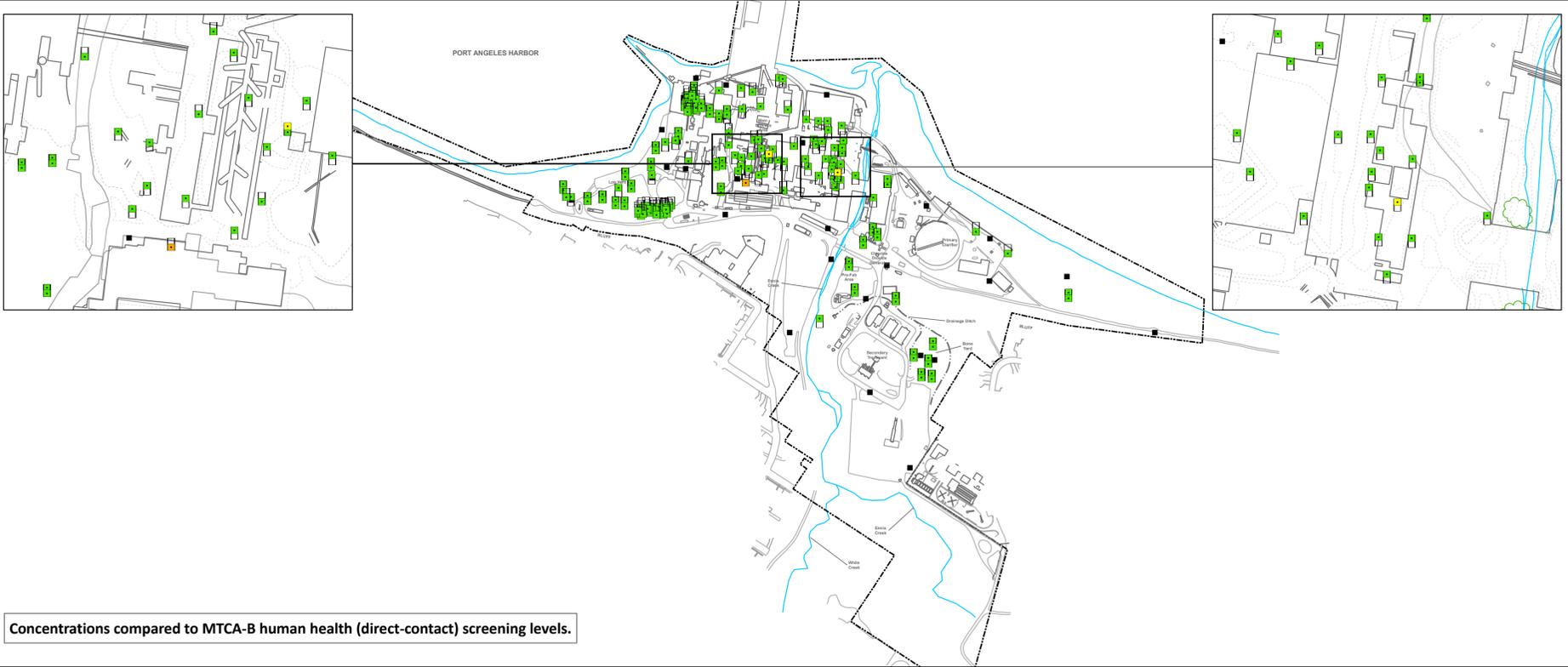
**Semivolatile Organic Compound Concentrations in Soil**

Port Angeles Rayonier Mill Study Area  
Port Angeles, Washington

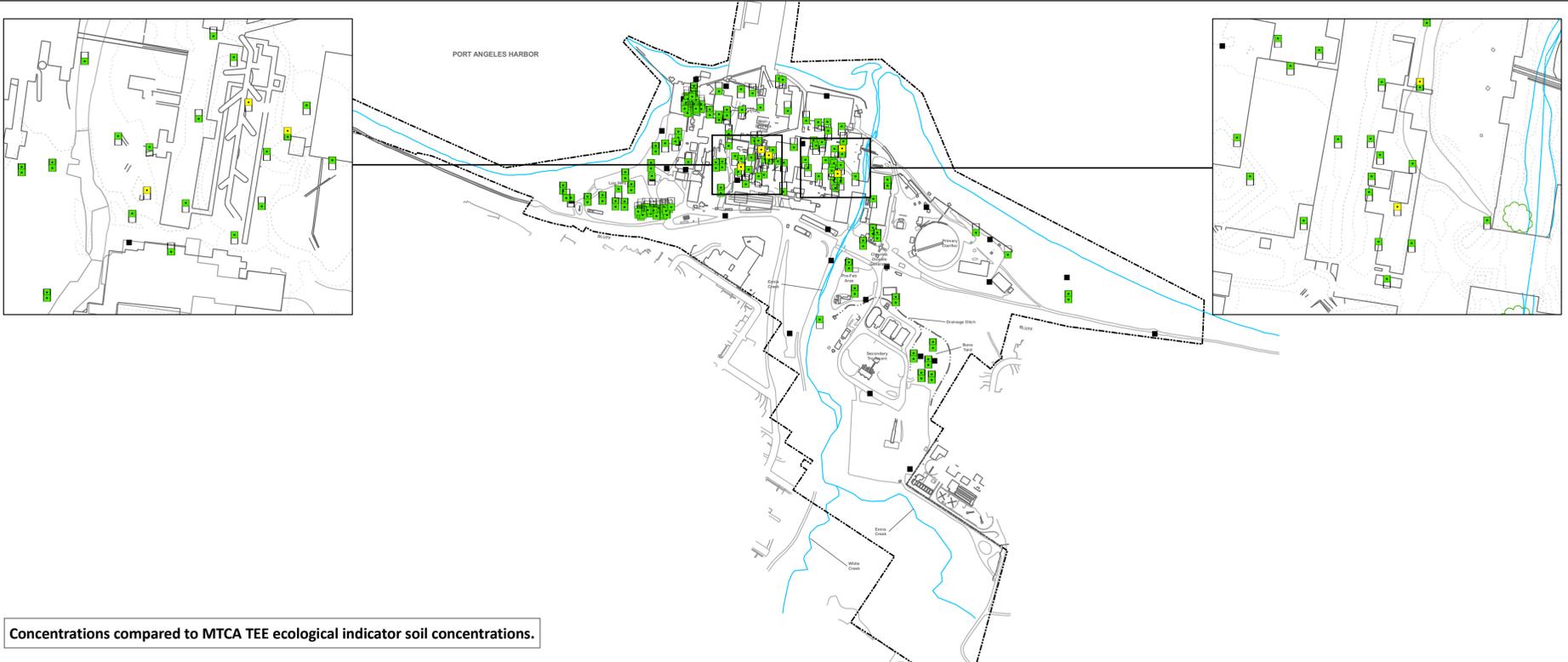
**GEOENGINEERS**

**Figure 11A**

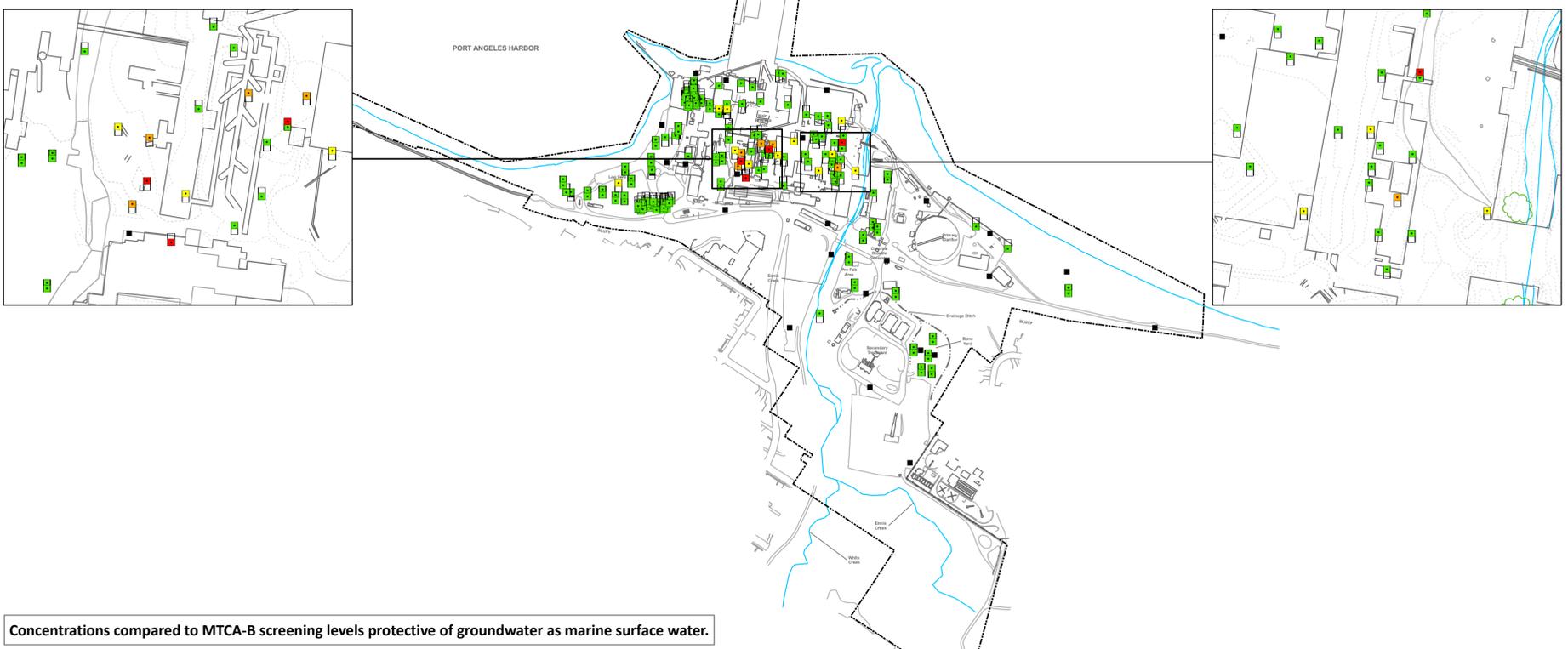
Notes:  
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.  
 2. The statistical summary table includes data from sampling locations that were subsequently excavated during interim actions. Locations excavated during interim actions are not shown on the map.  
 3. The locations of all features shown are approximate.  
 4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



Concentrations compared to MTCA-B human health (direct-contact) screening levels.



Concentrations compared to MTCA TEE ecological indicator soil concentrations.



Concentrations compared to MTCA-B screening levels protective of groundwater as marine surface water.

**Explanation**  
Semivolatile Organic Compound Concentrations in Soil  
(Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.

Monitoring Well Locations  
 Upland Study Area

Shallow Sample (0 to 2 feet)  
 Deep Sample (> 2 feet)



**Semivolatile Organic Compound Concentrations in Soil by Exposure Pathway**  
Port Angeles Rayonier Mill Study Area  
Port Angeles, Washington



Figure 11B

Office: SEA  
 Map Revised: July 16, 2010  
 Path: \NSEA\projects\010137015\GIS\013701503\_F11B\_SVOC\_SL\_Comparison.mxd  
 TOK:CRG

Notes:  
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.  
 2. The locations of all features shown are approximate.  
 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Analyte	Depth Description	Units	Screening Level	Screening Level Basis	Number of Locations Sampled	Number of Locations w/ Exceedances	Minimum Exceedance	Maximum Exceedance
Total cPAHTEC	Surface Sample (0 to 2 feet)	ug/kg	140	4	93	53	154.17	21940
Total cPAHTEC	Subsurface Sample (>2 feet)	ug/kg	140	4	104	22	156.8	23540

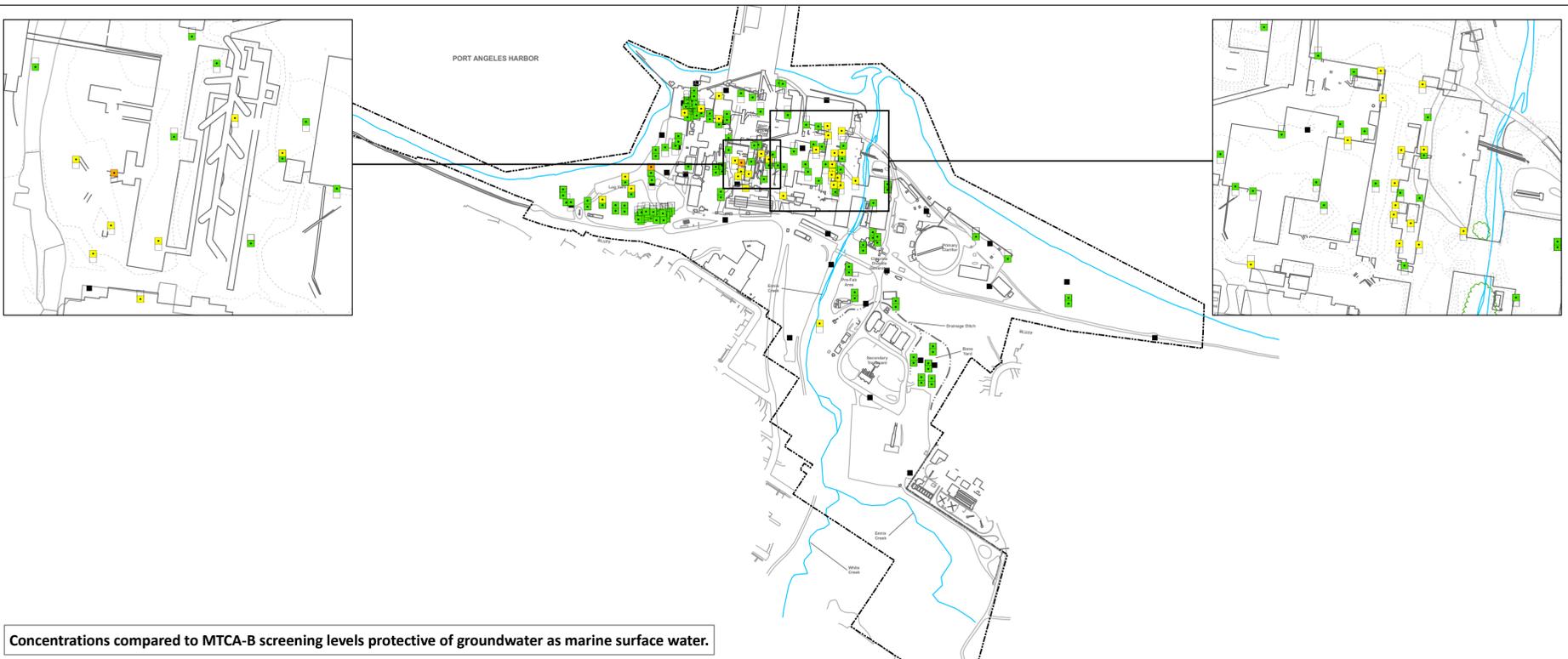
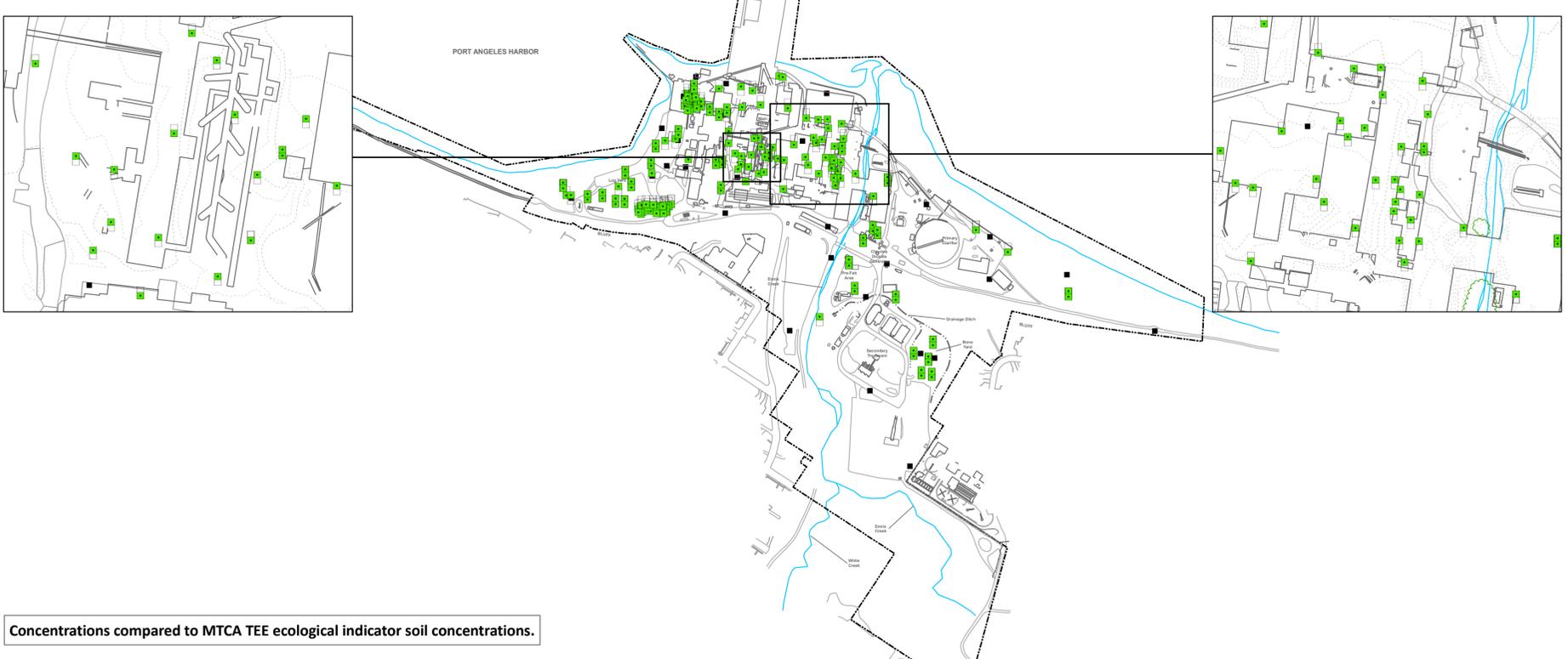
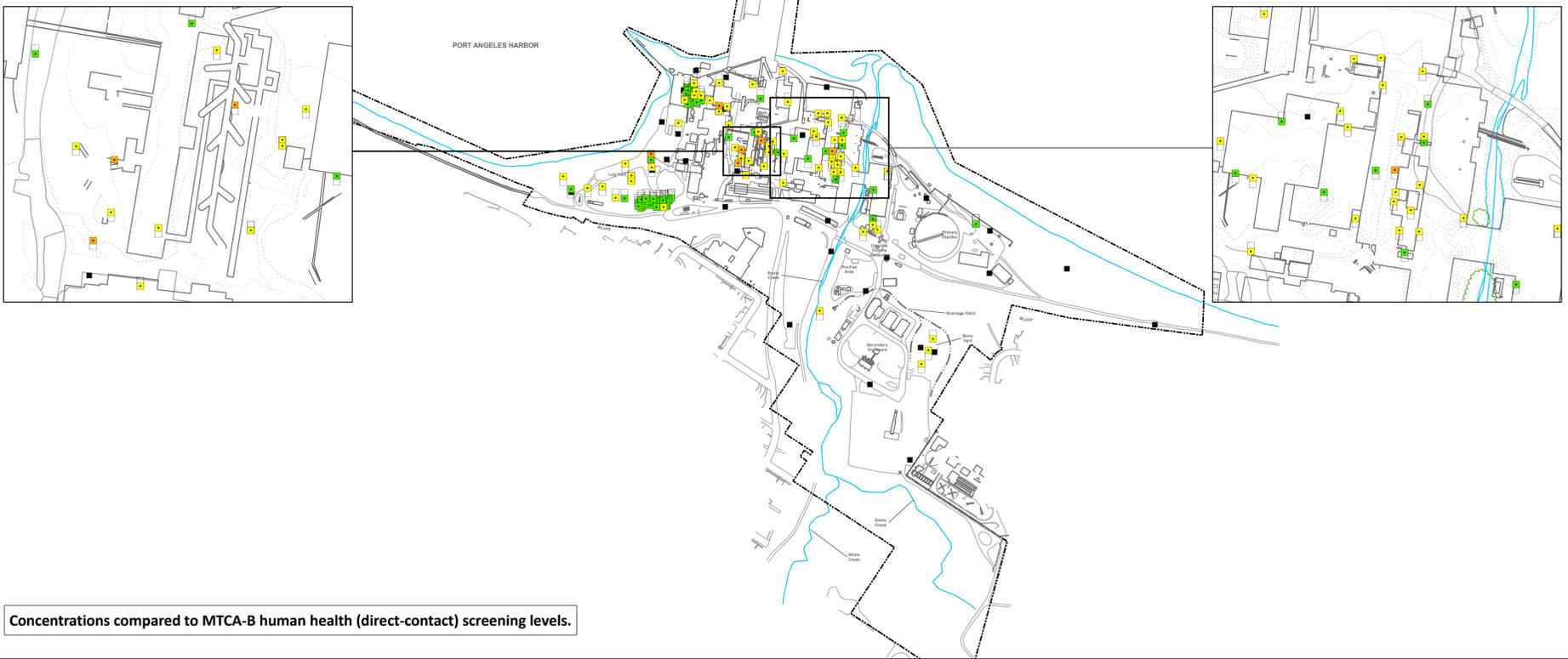
Screening Level Basis:  
 1 = Protection of Human Health  
 2 = Protection of Surface Water  
 3 = Protection of Groundwater  
 4 = Protection of Some Ecological Systems  
 5 = Protection of Human Health - Direct Contact

**Explanation**  
 Total Carcinogenic Polycyclic Aromatic Hydrocarbon Concentrations in Soil  
 (Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.
- Monitoring Well Locations
- ◆ Former Monitoring Well
- Proposed Pipe Contents Sample
- Proposed Groundwater Grab Sample
- Proposed Soil Boring
- ✱ Proposed Test Pit
- ▲ Proposed Surface Water Sample
- + Proposed Monitoring Well
- Upland Study Area



Notes:  
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.  
 2. The statistical summary table includes data from sampling locations that were subsequently excavated during interim actions. Locations excavated during interim actions are not shown on the map.  
 3. The locations of all features shown are approximate.  
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**Explanation**  
 Total Carcinogenic Polycyclic Aromatic Hydrocarbon Concentrations in Soil  
 (Highest ratio of reported analyte concentrations to screening levels at each sample location determines symbol color)

- Monitoring Well Locations
- Upland Study Area
- For results with PQLs that were less than or equal to the screening levels, the analytes either were not detected or were detected at concentrations below the screening levels.
- Indicates analytes were detected at concentrations greater than the screening levels but less than 10 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 10 times the screening levels but less than 100 times the screening levels.
- Indicates analytes were detected at concentrations greater than or equal to 100 times the screening levels.
- Indicates no sample was analyzed from the sample interval, or no analytes were detected above PQLs but the PQLs were greater than the screening levels.

Shallow Sample (0 to 2 feet)  
 Deep Sample (> 2 feet)

Notes:  
 1. Sampling locations that had only non-detect results for which the PQLs were greater than the respective screening levels are not displayed on this figure.  
 2. The locations of all features shown are approximate.  
 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



**Total Carcinogenic Polycyclic Aromatic Hydrocarbon Concentrations in Soil by Exposure Pathway**

Port Angeles Rayonier Mill Study Area  
 Port Angeles, Washington

**GEOENGINEERS**

**Figure 12B**

TCK:CRG

Map Revised: July 16, 2010

Path: \NSEA\projects\010137015\GIS\013701503\_F12B\_cPAH\_TEC\_SL\_Comparison.mxd

Office: SEA