

**Department of Energy & Environmental Protection**

**Bureau of Water Protection and Land Reuse  
Remediation Division**

**79 Elm Street, Hartford, CT 06106-5127  
(860) 424-3705** [**www.ct.gov/deep/remediation**](http://www.ct.gov/deep/remediation)

**Request for Approval for use of eph/VPH/APH Methods and aSSOCIATED criteria**

In accordance with Sections 22a-133k-1 through k-3 (RSRs)

Complete this form to request the Commissioner’s approval to use the Department’s optional, pre-evaluated numeric criteria for extractable petroleum hydrocarbons (EPH), volatile petroleum hydrocarbons (VPH), and/or air phase petroleum hydrocarbons (APH), as recommended in the July 2012 Technical Support Document titled, [Petroleum Hydrocarbons Using the EPH/VPH/APH Analytical Methods and Criteria Development](https://portal.ct.gov/-/media/DEEP/site_clean_up/remediation_regulations/TechnicalSupportDocumentEPHVPHAPHpdf.pdf). The Commissioner’s approval is required pursuant to the Remediation Standard Regulations (RSRs, for use of the EPH/VPH/APH Method and criteria listed below at the referenced site.

If this request is for an anticipated Property Transfer Act Form I, II, or IV filing, the approval will be conditional on the submittal of such filing within one year of the date of this approval. This approval automatically expires if such filing is not submitted within one year.

In all other cases, the approval expires eight years from the date approved unless otherwise extended by the Commissioner in writing, or unless a Verification, Interim Verification, or Final Remedial Action Report (for DEEP-lead sites only) is submitted within said eight years.

All sections of this form must be filled out, as applicable.

Check the box to indicate the program for which this form is being submitted:

Connecticut General Statutes (CGS) section 22a-134a(a)-(e), Property Transfer Program

CGS section 22a-133x, Voluntary Remediation Program

CGS section 22a-133y, Voluntary Remediation Program

Other (specify)

**Site Identification Rem ID#**

|  |
| --- |
| Name of Site:  Street Address:  City/Town:       State: CT Zip Code:      -  Groundwater Classification: |

**Contact Information**

|  |
| --- |
| Person submitting Request:       Title:  Business Name:       E-mail Address:  Mailing Address:  City/Town:       State:    Zip Code:      -  Business Phone:    -   -     Ext.       Fax:    -   - |

**Rem ID#**

“I hereby request approval, in accordance with RCSA Sections 22a-133k-2(b)(7), 22a-133k-2(c)(6), 22a-133k-3(i)(1), 22a-133k-3(i)(2), 22a-133k-3(i)(3), 22a-133k-2(d)(2), 22a-133k-2(d)(3), 22a-133k-3(b)(3), 22a-133k-3(c)(4), and/or 22a-133k-3(h)(3)(D) in accordance with the Connecticut Department of Energy and Environmental Protection, Recommended Reasonable Confidence Protocols, Quality Assurance and Quality Control Requirements to:

* use the [Extractable Petroleum Hydrocarbons Method](https://portal.ct.gov/-/media/DEEP/site_clean_up/guidance/QAQC/EPHRCPpdf.pdf), and/or
* use the [Volatile Petroleum Hydrocarbons Method](https://portal.ct.gov/-/media/DEEP/site_clean_up/guidance/QAQC/VPHRCPpdf.pdf), and/or
* use the [Air Phase Petroleum Hydrocarbons Method](https://portal.ct.gov/-/media/DEEP/site_clean_up/guidance/QAQC/APHRCPMethodv3pdf.pdf), together with
* the criteria listed in the table below for petroleum hydrocarbons in soil and/or groundwater as additional polluting substances and/or alternative criteria at the site identified above.”

Check the box indicating the criteria for which approval is requested. Selection of criteria must correspond to the groundwater classification of the site.

**Remediation Criteria for Petroleum Hydrocarbons Using EPH / VPH / APH Methodologies**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Residential Direct Exposure Criteria** | **Industrial / Commercial Direct Exposure Criteria** | **GA  Pollutant Mobility Criteria** | **GB  Pollutant Mobility Criteria** |
| Hydrocarbon Range | Criterion using EPH / VPH / APH methods (mg/kg) | | | |
| Aliphatic Hydrocarbons C5-C8 | 500 | 1,000 | 6 | 55 |
| Aliphatic Hydrocarbons C9-C12 | 500 | 1,000 | 15 | 140 |
| Aliphatic Hydrocarbons C9-C18 | 500 | 1,000 | 20 | 140 |
| Aliphatic Hydrocarbons C19-C36 | 1,000 | 2,500 | 20 | 200 |
| Aromatic Hydrocarbons C9-C10 | 500 | 1,000 | 5 | 20 |
| Aromatic Hydrocarbons C11-C22 | 500 | 1,000 | 20 | 30 |

|  | **Groundwater Protection Criteria** | **Surface Water Protection Criteria** | **Residential Groundwater Volatilization Criteria** | **Industrial / Commercial Groundwater Volatilization Criteria** |
| --- | --- | --- | --- | --- |
| Hydrocarbon Range | Criterion using EPH / VPH / APH methods (ug/l) | | | |
| Aliphatic Hydrocarbons C5-C8 | 280 | 200 | 100 | 215 |
| Aliphatic Hydrocarbons C9-C12 | 700 | 770 | 100 | 160 |
| Aliphatic Hydrocarbons C9-C18 | 700 | 770 | 100 | 155 |
| Aliphatic Hydrocarbons C19-C36 | 1,000 | 530 |  |  |
| Aromatic Hydrocarbons C9-C10 | 100 | 200 | 450 | 3,300 |
| Aromatic Hydrocarbons C11-C22 | 140 | 100 | 1,710 | 12,000 |

**Rem ID#**

|  | **Residential**  **Soil Vapor Volatilization Criteria** | **Industrial / Commercial**  **Soil Vapor Volatilization Criteria** |
| --- | --- | --- |
| Hydrocarbon Range | Criterion using EPH / VPH / APH methods **(mg/m3) / (ppmV)** | |
| Aliphatic Hydrocarbons C5-C8 | 100 mg/m3 / 25 ppmV | 460 / 120 |
| Aliphatic Hydrocarbons C9-C12 | 90 / 15 | 415 / 70 |
| Aliphatic Hydrocarbons C9-C18 |  |  |
| Aliphatic Hydrocarbons C19-C36 |  |  |
| Aromatic Hydrocarbons C9-C10 | 10 / 2 | 60 / 15 |
| Aromatic Hydrocarbons C11-C22 |  |  |

**Signature of Person Requesting Approval**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | /  /  Date |
|  | Signature |  |
|  |  |  |  |
|  | Printed Name of Signatory |  | Title (if applicable) |

**Section Below Reserved for DEEP Approval**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| The Request received by DEEP on   /  /     is hereby approved.  Nothing in this approval shall affect the Commissioner's authority to institute any proceeding, or take any action to prevent or abate pollution, to recover costs and natural resource damages, and to impose penalties for violations of law, if any. If at any time the Commissioner determines that the approved actions have not fully characterized the extent and degree of pollution or have not successfully abated or prevented pollution, the Commissioner may institute any proceeding, or take any action to require further investigation or further action to prevent or abate pollution. This approval applies only to the methodology and criteria identified in this request. In addition, nothing in this approval shall relieve any person of his or her obligations under applicable federal, state and local law. | | | | |
|  | Ray Frigon  Director  Remediation Division  Bureau of Water Protection and Land Reuse |  | Date Approved |  |

**Section Below Reserved for DEEP Disapproval**

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| The Request received by DEEP on   /  /     is hereby disapproved.  Rationale:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Ray Frigon Date Disapproved  Director  Remediation Division  Bureau of Water Protection and Land Reuse  You may re-submit the request when the reason(s) for disapproval have been adequately addressed. |