| Massachusetts Department of Environmental Protection BWSC107A Bureau of Waste Site Cleanup Release Tracking Number NUMERICAL RANKING SYSTEM (NRS) SCORESHEET 1 Pursuant to 310 CMR 40.1511 (Subpart O) 1 | | | | | | | | |
|---|-----------------------|---------------------|---------------------|--------------------|-------------------|--------|--|--|
| A. NRS SCORESHEET SUMMARY SECTION: | | | | | | | | |
| 1. Classification Submittal: (check one) 📃 a. Initial NRS Score 🖌 b. Revised NRS Score | | | | | | | | |
| 2. Disposal Site Score: | | | | | | | | |
| II | Ш | IV | V | VI | Total | | | |
| 145 | 58 | 25 | 115 | 0 | 343 | | | |
| 3. Disposal Site Classifica | tion: (check one |) | | | | | | |
| a. Tier IA | o. Tier IB | c. Tier IC | d. Tier II | | | | | |
| B. DISPOSAL SITE INFOR | MATION (NRS SE | CTION I): | | | | | | |
| 1. UTM Coordinates: | . UTM N: 53132 | 2 49 b. | UTM E: 30178 | 0 | | | | |
| 2. Check which, if any, of t | he Tier I inclusior | nary criteria are m | et by the Disposa | Site, pursuant to | 310 CMR 40.052 | 20(2): | | |
| a. Groundwater is located within an Interim Wellhead Protection Area or a Zone II, and there is evidence of groundwater contamination by an Oil or Hazardous Material at the time of Tier Classification at concentrations equal to or exceeding the applicable RCGW-1 Reportable Concentration set forth in 310 CMR 40.0360. b. An Imminent Hazard is present at the time of Tier Classification. | | | | | | | | |
| C. EXPOSURE PATHWAY | S (NRS SECTION | II): | | | | | | |
| 1. Exposure Pathways, an | d Oil and Hazardo | ous Material (OHN | A) Sources: | | | | | |
| For A. through D., score a For E., score using NRS T | | CMR 40.1512 - Ex | posure Pathway I | Designation Criter | ria and NRS Table | e II. | | |
| , | | | | Score | | | | |
| | A. Soil (includ | les sediment) | 10 | 00 | | | | |
| | B. Groundwat | er | 20 |) | | | | |
| | C. Surface Wa | ater (includes we | tlands) 0 | | | | | |
| | D. Air | | 0 | | | | | |
| | E. Number of | OHM Sources | 2 | 5 | | | | |
| | Total NRS See | ction II Score (15 | - 700) | 45 | | | | |
| 2. Was Section G (NRS Section G) | ection VI) used to | amend the score | for this Section o | f the NRS? | 📄 a. Yes 🖌 | b. No | | |



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC107A

NUMERICAL RANKING SYSTEM (NRS) SCORESHEET

Release Tracking Number

15718

Pursuant to 310 CMR 40.1511 (Subpart O)

3. Summary Rationale for Exposure Pathway Values, A. through D., and Phase I Report References:

PCB CONCENTRATIONS WERE IDENTIFIED WITHIN THE TOP 1 FOOT OF SURFACE SOIL ABOVE RCS-1 REPORTABLE CONCENTRATIONS FOR SOIL IN AN UNPAVED, VACANT AND UNDEVELOPED PARCEL ABUTTING THE GASOLINE STATION. VOLATILE PETROLEUM HYDROCARBONS (VPH) WAS DETECTED IN GROUNDWATER AT CONCENTRATIONS ABOVE APPLICABLE METHOD 1 RISK CHARACTERIZATION STANDARDS IN 2007. PCBS WERE NOT DETECTED IN SOIL SAMPLES COLLECTED NEAR THE GROUNDWATER TABLE. LEVEL 1 SOIL GAS SURVEY PERFORMED IN 2009 CONFIRMS THAT NO INDOOR AIR PATHWAY EXISTS. NO DETECTABLE CONCENTRATIONS OF GASOLINE-RELATED COMPOUNDS (VPH) ARE DETECTED IN DOWNGRADIENT MONITORING WELLS, THEREFORE, NO IMPACTS TO SURFACE WATER ARE LIKELY.

D. DISPOSAL SITE CHARACTERISTICS (NRS SECTION III):

1. Oil and Hazardous Material (OHM) Toxicity Score (NRS Section III.A.):

a. List the Four Highest OHM Toxicity Scores from NRS Table III.A.:

| OHM Scored | Concentration and Media | Toxicity Score (1 - 80) |
|---------------------------|-------------------------|-------------------------|
| POLYCHLORINATED BIPHENYLS | SOIL | 30 |
| C5-C8 ALIPHATICS(VPH) | SOIL | 25 |
| C9-C10 AROMATICS(VPH) | SOIL | 25 |
| XYLENES | SOIL | 10 |

b. Score using NRS Worksheet III.A.1. to determine the OHM Toxicity Score for OHM not listed in NRS Table III.A.:

| ОНМ | Human Health-based Toxicity Value | Concentration (Soil - ug/g) | Concentration (Water - ug/I) | Toxicity Score |
|-----|--------------------------------------|--------------------------------|---------------------------------|-------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

c. Use the Highest OHM Toxicity Score from either NRS Table III.A. or Worksheet III.A.1.:

| OHM Scored | Toxicity Score |
|---------------------------|----------------|
| POLYCHLORINATED BIPHENYLS | 30 |

| Massachusett Bureau of Was NUMERICAL F Pursuant to 310 CM | te Site Ci RANKING | leanı 3 SY | лр STEM | | | | | BWS | C107A Tracking Number |
|--|----------------------------|---------------|------------|-----------------------|--------|----------|--------------------|--------------------------|--------------------------|
| 2. Multiple OHMs (NRS Section III.B.): | | | | | | | | | |
| Was the Toxicity Score of more that | n one OHM | great | er than o | r equal t | o 30? | | a. Yes (| 30) 🖌 b. | No (0) |
| 3. OHM Mobility and Persistence (NRS S | Section III.C | .): | | | | | | | |
| Score according to 310 CMR 40.15 | 514 - OHM N | /lobility | y and Pe | rsistenc | е | | | | |
| a. OHM Sco | ored | | | b. S | core | (0 - 50) | | | |
| POLYCHLORINATED BIPHEN | NYLS | | | 20 | | | | | |
| 4. Disposal Site Hydrogeology (NRS Section III.D.): Score according to 310 CMR 40.1515 - Soil Permeability, and NRS Table III.D. | | | | | | | | | |
| 5. Total NRS Section III Score: | Α. | B | | C. | C |). | | or Section III | |
| | 30 | 0 | 20 | | 8 | | (, | 3 - 180) 58 | |
| 6. Was Section G (NRS Section VI) use E. HUMAN POPULATION AND LAND US | | | | his Sect | ion ol | f the NR | S? | a. Yes | 🖌 b. No |
| 1. Human Population (NRS Section IV.A |): R | | ntial Pop | | Т | Institu | | On-site | Population |
| Score using NRS Table IV.A. | | wi | thin 1/2 M | Aile within 500 Feet | | | | Workers 5 | Score (0 - 40) |
| 2. Aquifers (NRS Section IV.B.): | | | 10 | | | U | | 5 | |
| a. Sole Source Aquifer: | i. Yes (25) | ii. | Name: | | | | | / iii | . No (0) |
| b. Potentially Productive Aquifer: | i. | Medi | um or Hi | gh (15) | | 🖌 ii. | No (0) | | |
| 3. Water Use (NRS Section IV.C.): | Proximity | | Person | | - | | te Water | Alternate Pub | |
| | Public Drink Water Sour | | | c Drinkiı er Suppl | - | | pplies 500 Feet | Water Suppl Available | y Use Score (0 -125) |
| | 0 |] | - | 10 | | 0 | | 0 | 10 |
| 4. Total NRS Section IV Score: | А. | | В. | | C. | | Total fo | r Section IV | |
| | 15 | | 0 | 10 | | 0 | (0 - 205) | | |
| 5. Was Section G (NRS Section VI) used to amend the score for this Section of the NRS? | | | | | | | | | |

| Ì | N | | |
|---|---|----|---|
| | , | Z | 2 |
| | - | 11 | 3 |
| | | | |

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

NUMERICAL RANKING SYSTEM (NRS) SCORESHEET

Pursuant to 310 CMR 40.1511 (Subpart O)

Release Tracking Number

BWSC107A

1

_

15718

| Area of Critic Environment Concern | al Threatene | Special Concern, d or Endangered ies Habitat | Po | nds, Certi ol, or Outs Resource | tanding | | Fish Habitat | Protected Open Space | Res | Environmental Resource Area Score (0 - 150) | |
|--|-------------------|---|---------|---------------------------------------|----------|-------|----------------------------|-------------------------|-----|---|----------------------|
| 0 | | 30 | | 20 |] | | 20 | 20 | | 90 | |
| Score only if | Environmental F | IRS Section V.B.): esource Area Score ironmental Toxicity | - | | - | |). | | | | |
| | Oł | IM Scored | | | | Cor | centration | n and Media | Т | oxicity (0 - 3 | |
| POLYCHLORI | NATED BIPHE | NYLS | | | 24 | 48 N | IG/KG IN | SOIL | | 25 | |
| C5-C8 ALIPHA | TICS | | | | 18 | 870 | MG/KG II | N SOIL | | 15 | |
| C9-C10 AROM | ATICS | | | | 10 | 650 | MG/KG II | N SOIL | | 15 | |
| See 310 CMF | 2 40.1516 for Env | vironmental Toxicity | Values | for each O Environ Toxicity | nental | | oncentratio Soil - ug/g | | | | onmenta ity Score |
| | | | | | | | | | | L | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| c. Use the Hi | ghest Environme | ntal Toxicity Score f | rom eit | her NRS T | able V.E | 3. or | from Work | sheet V.B.1.: | | L | |
| c. Use the Hi | ghest Environme | ntal Toxicity Score f | | her NRS T | able V.E | 3. or | | sheet V.B.1.: | | | |
| c. Use the Hi | | - | ored | her NRS T | able V.E | 3. or | | | | | |



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC107A

NUMERICAL RANKING SYSTEM (NRS) SCORESHEET

Pursuant to 310 CMR 40.1511 (Subpart O)

Release Tracking Number

1

G. MITIGATING DISPOSAL SITE -SPECIFIC CONDITIONS (NRS SECTION VI):

1. Disposal site-specific conditions that warrant amending the site score. Changes directly related to NRS Sections or Subsection scores may not reduce the score more than the relevant subsection value assigned for the disposal site in that subsection. Section VI must reference specific pages of the Phase I. Section VI may not exceed plus or minus 50 points and may be scored only in 5-point increments.

THERE ARE NO SITE-SPECIFIC CONDITIONS THAT WARRANT AMENDING THE SITE SCORE.

2. Check here if additional pages are provided in an attachment.

| Total Score Section VI | | | | | |
|---------------------------|--|--|--|--|--|
| 0 | | | | | |