

**ATTACHMENT D**

**REMEDIAL ACTION REPORT FORM**



New Jersey Department of Environmental Protection
Site Remediation Program

REMEDIAL ACTION REPORT FORM

Date Stamp
(For Department use only)

SECTION A. SITE

Site Name: Berry Lane Park (including the former Morris Canal, Chromium Site 121 and Chromium Site 207 (COPR))
Program Interest (PI) Number(s): 568229
Case Tracking Number(s) for this submission: 66628 (Chromium Site 121); 80621 (Chromium Site 207)

This form must be attached to the Cover/Certification Form

SECTION B. SCOPE OF REMEDIAL ACTION REPORT

- 1. Does the RAR address:
[X] Area(s) of Concern (AOCs) Only
[ ] Entire Site (Based on a completed and submitted Preliminary Assessment/Site Investigation)
2. Total number of contaminated AOCs associated with the case: 16
3. Total number of contaminated AOCs addressed in this submission: 3
4. Are there any outstanding contaminated AOCs associated with the case where the remedial action has NOT been performed?
5. Does this RAR address a discharge/release from a federally regulated UST?

When answering the remaining questions on this form consider only the AOCs addressed in this submission.

SECTION C. GENERAL

- 1. Does this submission include Remedial Action Permit Application(s) that require Site Remediation Program approval?
2. Was a remediation initiated after May 6, 2010, for new construction / change in the use of the site proposed for the purpose of residential use, use as a licensed child care center or use as a school?
3. Was an alternative remedy approved by the NJDEP?
4. Has the remediation varied from the Technical Rules?
5. Were the laboratory Reporting Limits below applicable remediation standards/screening levels criteria required for the contaminants of concern for the AOCs addressed in this submission?
6. Have past NJDEP-documented deficiencies been addressed in this submission?
7. Did the remediation deviate from that proposed in the Remedial Action Workplan?
8. Did the remedial action render the property unusable for future redevelopment or for recreational use (N.J.A.C. 7:26C-6.4(b))?

**SECTION D. SITE CONDITIONS**

1. At any time, was there any radiological contamination detected at the AOCs addressed in this submission? .....  Yes  No
2. At any time, did any of the AOCs addressed in this submission contain Ordnance and Explosives/Unexploded Ordnance (OE/UXO)? .....  Yes  No
3. Did the remedial action involve containment of free product? .....  Yes  No
4. Has dioxin been detected at levels above NJDEP's interim direct contact soil screening level of 50 ppt dioxin TEQ (TCDD Toxicity Equivalence Quotient) in any AOCs addressed in this submission? .....  Yes  No
5. Have any of the following contaminants ever been detected in sediment above the ecological screening levels at the AOCs addressed in this submission? .....  Yes  No

If "Yes," check all that apply:

- Arsenic     Dioxin     Mercury     PCBs     Pesticides

6. Is remediation complete in all affected media at the AOCs addressed in this submission?.....  Yes  No
7. Did contaminants from the AOCs addressed in this submission discharge to surface water? .....  Yes  No
8. Did contaminants from the AOCs addressed in this submission discharge to an Environmentally Sensitive Natural Resource (ESNR)? .....  Yes  No
9. Are any of the following conditions currently present for the AOCs addressed in this submission? (*check all that apply*):

**Groundwater:**

(Historic Fill and USTs)

- Contaminated ground water in the overburden aquifer
- Contaminated ground water in a confined aquifer
- Contaminated ground water in the bedrock aquifer
- Contaminated ground water in multiple aquifer units
- Multiple distinct ground water plumes
- Contaminated ground water migrating off-site
- Natural background ground water contamination
- Contaminated ground water discharging to surface water or Environmentally Sensitive Natural Resource (ESNR)
- Residual or free product
- Radionuclides

**Soil:**

- On-site discharge(s) impacting soil off-site
- Chromate Chemical Production Waste/COPR
- Munitions and explosives of concern
- Contaminated soil in the saturated zone
- Historic pesticide impacts to soil
- Residual or free product
- Radionuclides
- Historic Fill to be remediated under AOC-4 Historic Fill
- Natural background only above Impact to Ground Water Cleanup Criteria
- Natural background above Direct Contact Remediation Standards
- Soil contamination in an ESNR

**SECTION E. APPLICABLE REMEDIATION STANDARDS**

1. Were Default Remediation Standards used for all contaminants? .....  Yes  No

If "Yes," check all that apply:

- Direct Contact
- Impact to Ground Water Soil Screening Levels
- Ecological Screening Levels

2. Has compliance averaging been utilized to determine compliance with the Soil Remediation Standards? .....  Yes  No

If "Yes," check all that apply:

**Compliance Averaging Method Utilized**

<b>Pathway</b>	Arithmetic Mean	95 Percent UCL	Spatially Weighted Average	75 Percent/10X Procedure
<input checked="" type="checkbox"/> Ingestion-Dermal Pathway	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inhalation Pathway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Impact to Ground Water Pathway	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3. Has a compliance option been utilized to determine compliance with the Impact to Ground Water Pathway? (If "Yes," check all that apply)..... Yes  No
- Immobile Compounds
  - Data evaluation for metals and semi-volatiles nickel
  - Data evaluation for volatile organics derived from discharges of petroleum mixtures
4. Was an interim standard used for a contaminant where a standard does not exist? ..... Yes  No
5. Were Alternate Remediation Standards used for the Ingestion/Dermal Pathway? ..... Yes  No
6. Were Alternate Remediation Standards used for the Inhalation Pathway? ..... Yes  No
7. Were Site Specific Standards used for the Impact to Ground Water Pathway? ..... Yes  No  
If "Yes," check all that apply:
- Soil-Water Partitioning Equation
  - SPLP  Sesoil  Sesoil/AT123D
  - DAF Modification  Lead - Clean Fill
8. Were Site Specific Ecological Remediation Goals used? ..... Yes  No
9. What is the ground water classification for this site as per N.J.A.C. 7:9C? (check all that apply)
- Class I-A
  - Class II-A
  - Class I-PL Pinelands Protection Area
  - Class III-A
  - Class I-PL Pinelands Preservation Area
  - Class III-B

**SECTION F. ALTERNATIVE AND CLEAN FILL USE**

1. Was alternative fill used?..... Yes  No
2. Was clean fill used?..... Yes  No
3. Was material sent off-site for use as alternative and/or clean fill? ..... Yes  No  
If "Yes," specify the section/page in the RAR where it states the SRP site receiving this alternative and/or clean fill: \_\_\_\_\_
4. Was material sent off-site for use as alternative and/or clean fill at a non-SRP site?..... Yes  No  
If "Yes," specify the section/page in the RAR where it states the non-SRP site receiving this alternative and/or clean fill: \_\_\_\_\_
5. Was alternative fill used in excess of the amount required for the remedial action?..... Yes  No  
If "Yes," was the NJDEP's preapproval obtained pursuant to N.J.A.C. 7:26E-5.2(b)3? ..... Yes  No

**SECTION G. REMEDIAL ACTION REPORT INFORMATION**

**Soils**

1. Did the remedy include a remedial action for soils? ..... Yes  No  
If "No," skip to **Ground Water**
2. Is a restricted use required? ..... Yes  No  
If "Yes," indicate the type of restriction being implemented. \_\_\_\_\_
3. If applicable, has consent from all involved property owners been obtained (i.e., for institutional or engineering controls)? ..... Yes  No
4. Was an engineering control required? ..... Yes  No  
If "Yes," indicate the receptor(s) each engineering control is intended to protect. (*check all that apply*)
- Human
  - Ecological
  - Offsite Impacts

**Ground Water**

5. Did the remedy include a remedial action for ground water? ..... Yes  No  
If "No," skip to **Ecological**
6. Is a restricted use required for ground water?..... Yes  No

7. Is a revised CEA required?.....  Yes  No
8. Do any contaminant levels in ground water currently exceed the vapor intrusion ground water trigger?.....  Yes  No

**Ecological**

9. Did the remedy include a remedial action for Environmentally Sensitive Natural Resources (ESNRs)? .....  Yes  No  
If "No," skip to **Indoor Air**
10. Was post-remedial sampling performed to determine whether contaminant levels currently meet ecological screening levels or ecological remediation goals? .....  Yes  No
11. Did the remedial action require filling of State open waters or wetlands? .....  Yes  No
12. Have ecological risk-based remediation goals been developed? .....  Yes  No  
If "Yes," have the ecological risk-based remediation goals been approved by NJDEP? .....  Yes  No
13. Have Risk Management Decision (RMD) goals been developed? .....  Yes  No  
If "Yes," have the RMD goals been approved by NJDEP? .....  Yes  No

**Indoor Air**

14. Have any vapor intrusion engineering controls/mitigation systems been installed in order to mitigate a vapor condition in a structure? .....  Yes  No  
If "Yes," check each type of engineering control that was implemented:
- Subsurface Depressurization System
  - Subsurface Ventilation System
  - Soil Vapor Extraction System
  - HVAC Positive Pressure
  - Other (specify): \_\_\_\_\_

**SECTION H. LABORATORY DATA**

1. Were all data submitted in the appropriate full and/or reduced formats according to the deliverables defined in N.J.A.C. 7:26E-2? .....  Yes  No
2. Do all data submitted meet the quality assurance/quality control (QA/QC) requirements incorporated by reference in N.J.A.C. 7:26E-2 for:
- sampling .....  Yes  No
  - analysis.....  Yes  No
3. How was it determined that the data complied with the QA/QC requirements?
- Laboratory non-conformance summary/narrative
  - Laboratory correspondence
  - LSRP review
  - Independent contractor review
  - Other: \_\_\_\_\_
4. Has any data been qualified and used? .....  Yes  No
5. Has any data been rejected and used?.....  Yes  No
6. Provide the page number for the "Reliability of Data" section of the report: pg 33