
MARJOL BATTERY CONSTRUCTION

CLEAN-UP REQUIREMENTS

Move Contaminated Waste Away from Five-Foot Coal Seam

- Eliminate fire and pothole subsidence hazard

Consolidate Contamination

- Move all contaminated waste and soil into central area

Solidify Top Layer of Contaminated Soil

- Mix soil with cement to create solid layer that cannot wash out

Construct Multi-Layer Cap Over Contamination

- Landfill cap with geotextile (plastic) liner and soil cover
- Prevent exposure to contamination
- Prevent water migration into waste

Sample to Document Clean-up

- Soil in excavated areas
- Sediment in River
- Soil outside Marjol property
- Groundwater under cap area

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CONTROLS AND MONITORING

Site Access

- Perimeter fencing
- 24-hour guard

Stormwater Run-off / Sediment

- Construction Specifications Require
 - Erosion and sedimentation control
 - Drain clean areas to sedimentation pond
 - Drain contaminated areas to containment (cap) area
- River Sampling
 - Quarterly during construction
 - After significant rain event
 - Should erosion of contaminate area Occur

Air Releases / Dust Control

- Construction contract requires
 - Dust control at all times –
water/mulch
 - No visible dust
 - Low particulate (dust) levels
 - At perimeter of work zone
 - Below “visible dust” levels

- Air Monitoring – three zones
 1. Primary Monitoring for Releases at perimeter of work area
 - Detect and control at work area
 - Measure particulate (dust) level
 - Real-time reading
 - Prevent contamination from moving
beyond work area
 - Continuous during construction

 2. Secondary Monitoring for Releases at
perimeter of Marjol property
 - Confirm air quality is safe at
property boundary

 3. Worker area – worker protection
 - In work area
 - Identify type of worker protection
needed

- Stop Work Authority - Contractor must stop work and improve dust control if:
 - Visible dust is present
 - Work perimeter dust exceeds trigger level

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TRAFFIC & MATERIALS

Truck Route

- Cypress, Dunmore, and Delaware Streets
- All trucks will use Delaware St entrance
- Personal vehicles will use Delaware St entrance except when it is closed for clean-up

Decontamination

- All vehicles leaving contaminated area will be washed

Relocated Waste Will Stay On-Site

- Waste taken to containment area
 - Will use on-site roads
 - Will not exit site
 - Will not use public roadways

Material Transported To Marjol Site

- Clean fill (soil)
- Construction equipment and supplies

**Material Transported Away From
Marjol Site**

- Construction waste and debris
- Clean material for recycling
- No contaminated waste expected, but possible
 - Trucks lined, covered, and labeled

Parking – On-site for all personnel

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SCHEDULE

Spring 2008 to Late Fall 2009

Phase 1: Spring 2008 to Early Winter 2008

- Prepare Site
- Construct Containment Area
- Excavate and Relocate Waste
 - Dust controls and sampling

Winter Shutdown

- If weather necessitates
- Cover exposed waste with clean soil

Phase 2: Spring 2009 to Late Fall 2009

- Excavate and Relocate Waste - Complete
 - Dust controls and sampling
- Cap Waste Area
- Restore Property
- Take Off-site Verification Samples

Post-Construction

- Sample River and Groundwater
- Maintain Cap and Stormwater Basin

Work Hours

- Borough Ordinance
 - 7 AM to 7 PM
 - Monday through Saturday
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