

ANALYSIS OF BROWNFIELD CLEANUP ALTERNATIVES

Name of ARRA Brownfield grant borrower

Site/Project Name

Cleanup Grant

Site Address

Date

Prepared By

Name and Address of preparing organization

Prepared For

Name and Address of ARRA Brownfield grant borrower

Analysis of Brownfield Cleanup Alternatives

Site/Project Name

Approval Page

Preparer of Document -----
Signature Date

Project Manager representing
ARRA Brownfields RLF grant borrower -----
Signature Date

Approving State Environmental Agency official -----
Signature Date

Analysis of Brownfield Cleanup Alternatives
Site/Project Name

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Analysis of Brownfield Cleanup Alternatives

Site Name & Address

1.0 Executive Summary

2.0. Site Characterization

2.1. Introduction: Objectives of the ABCA with respect to the site/project

2.2. Site Description

(Including operational history)

2.3. Source, Nature and Extent of Contamination

2.4. Exposure Pathways of Concern

(Specific explanations of why a pathway is or is not considered a concern must be included)

2.4. Summary of Available Sample Analytical Results

2.5. Schedule of Brownfields RLF submittals

2.6. Identification and Analysis of Remedial Action Alternatives

- Alternative 1: No Action
- Alternative 2: Describe
- Alternative 3: Describe
- Alternative 4 etc...

2.6.1. Alternative 1: Discuss this alternative taking into account the following:

2.6.1.1. Effectiveness:

- The degree to which the toxicity, mobility, and volume of contamination is expected to be reduced;
- The degree to which a remedial action option, if implemented, will protect public health and safety, and the environment over time;
- Consider any adverse impacts on public health and safety, and the environment that may be posed during the construction and implementation period until completion of site cleanup

2.6.1.2. Implementability:

- The technical feasibility of constructing and implementing the remedial action option at the site
- The availability of materials, equipment, technologies and services required to conduct the remedial action alternative

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- The administrative feasibility of the remedial action alternative, including activities and time needed to obtain any necessary licenses, permits or approvals; any applicable federal or state rules & regulations, threatened or endangered species; and the technical feasibility of recycling, treatment, engineering controls, disposal or naturally occurring biodegradation; and the expected time frame required to achieve the necessary cleanup of the site

2.6.1.3. Cost

The following types of costs are generally associated with the remedial action alternatives:

- Capital costs- including both direct and indirect costs
- Initial costs- including design and testing costs
- Annual operation & maintenance costs

2.6.2. Alternative 2: Discuss this alternative taking into account the same criteria provided above for Alternative 1

2.6.2.1. Effectiveness

2.6.2.2. Implementability

2.6.2.3. Cost

2.6.3. Alternative 3: Alternative 2: Discuss this alternative taking into account the same criteria provided above for Alternative 1

2.6.3.1. Effectiveness

2.6.3.2. Implementability

2.6.3.3. Cost

3.0. Recommended Removal Action Alternative: Summarize which removal action alternative is recommended for the site and the justification for the recommendation

4.0. Final Decision Document: *[A copy of the draft Analysis of Brownfield Cleanup Alternatives document should be made available for public review and comment at the location of the administrative record repository, during normal business hours, for a period of 30 calendar days. Any public comments received by DEQ on the draft document will be responded to and incorporated into the Final Decision Document for the site. A copy of the approved Final Decision Document should also be included in the site's administrative records.]*

4.0. References

5.0. Appendices: Copies of relevant laboratory analytical reports for samples collected from the site