WAC 197-11-960 Environmental checklist.

ENVIRONMENTAL CHECKLIST

Purpose of checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D).

For non-project actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable: **Barbee Mill – Interim Remedial Action.**

2. Name of applicant: **The Barbee Mill Co., Inc.**

3. Address and phone number of applicant and contact person: **Applicant Address: Barbee Mill Co., Inc., PO Box 359, Renton, WA 98057.**

The project manager for this action is Jeremy Porter, Aspect Consulting LLC, 401 2nd Avenue South #201, Seattle, WA 98104. Phone number (206) 838-5835.

4. Date checklist prepared: **October 30, 2009**

5. Agency requesting checklist: **Washington State Department of Ecology**

6. Proposed timing or schedule (including phasing, if applicable):

April to June 2009: Installation of Groundwater Treatment System. This work was conducted independently by Barbee Mill Company, Inc., at the company's own risk prior to execution of the Agreed Order. Ecology plans to approve the plan for this work as part of executing the Agreed Order.

Summer/Fall 2009: Startup of Groundwater Treatment System Operation

Annual Reports on Progress of the effectiveness of the Groundwater Treatment System.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. **A data gaps analysis will be prepared to determine if additional sediment characterization is needed. A remedial investigation and feasibility study report will be prepared. Following that report, and an assessment of the interim action's effectiveness, Barbee Mill will work with Ecology to determine if any additional actions are needed to complete the cleanup.**

8. List any environmental information you know about that has been prepared, or will be prepared, related to this proposal. **Environmental reports describing characterization and remediation activities performed at the site, and Ecology's informal technical advice and opinions regarding the work, are in the Department of Ecology's files. A list of the most significant documents are attached (Attachment A).**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. **The site is undergoing redevelopment for residential use. Construction of the development is being completed under permits issued by the City of Renton; no approvals are known to be pending.**

10. List any government approvals or permits that will be needed for your proposal, if known. **Necessary permits have been obtained. A right-of-way permit has been issued by the City of Renton to allow access to wells and piping located in the street right-of-way. A sewer discharge permit has been issued by King County Metro to allow discharge of water from the treatment system to the sanitary sewer system. A shoreline permit has been issued by the City of Renton that covers installation and operation of the groundwater extraction and treatment system. To the extent there are ongoing substantive requirements of the City's right of way use permit, and the County's discharge authorization associated with the proposed actions, those substantive requirements will be overseen by Ecology as part of the Agreed Order.**

11. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The proposed work includes the following activities:

- **April to June 2009: Installation of Groundwater Treatment System. This work was conducted independently by Barbee Mill Company, Inc., at the company's own risk prior to execution of the Agreed Order. Ecology plans to approve the plan for this work as part of executing the Agreed Order.**
- **Summer/Fall 2009: Startup of Groundwater Treatment System Operation**
- **Annual Reports on Progress of the effectiveness of the Groundwater Treatment System.**

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The action will be conducted in the northwest corner of the Conner Homes at Barbee Mill development, at the intersection of North 42nd Place and Williams Avenue North, in Renton, Washington. A site map showing specific locations of the treatment system components relative to streets and lots is attached.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (circle one): **Generally flat, sloping down to lake at shoreline, and a retaining wall along north property line.**

b. What is the steepest slope on the site (approximate percent slope)? **~12 percent along shoreline.**

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland. **Silty sand fill, overlying alluvial deposits consisting primarily of sand, silt, and peat**

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. **No.**

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.
Less than 30 cubic yards of soil will be excavated from shallow (<4 feet deep) trenches, placement of equipment and utility vaults. No imported fill materials are expected.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
No. The area of proposed construction is flat, and landscaping will be restored as part of the project.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? **Equipment vaults will cover approximately 150 square feet of ground, which is less than 0.02% of the total development.**

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
During equipment installation, erosion control BMPs shall be used, including minimizing the area of exposed soil, covering temporary soil stockpiles, and preventing run-on/run-off from the work area.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known. **Minor amounts of dust may be emitted during excavation for the treatment system vaults.**

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. **No.**

c. Proposed measures to reduce or control emissions or other impacts to air, if any: **Dust control BMPs will be implemented if necessary during excavation activities.**

3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. **The site is located adjacent to Lake Washington. May Creek, which discharges into Lake Washington, is located approximately 300 feet south of the project area.**

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans. **Yes. Two well points, eight monitoring wells, and five extraction wells are located within 200 feet of Lake Washington. Locations are shown on the attached site plan.**

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material. **None.**

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. **No.**

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge. **No.**

b. Ground:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known. **Yes. When the ground water extraction system is operated, up to 25,000 gallons per day of arsenic-contaminated groundwater will be withdrawn, treated, and discharged to the sanitary sewer system. Ground water flows into Lake Washington. The ground water extraction system will help reduce contaminant flow into Lake Washington.**

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve. **None.**

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe. **There will be no water runoff associated with the proposed project.**

2) Could waste materials enter ground or surface waters? If so, generally describe. **No.**

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any: **N/A.**

4. Plants

a. Check or circle types of vegetation found on the site: **Site landscaping performed as part of development includes native and ornamental vegetation.**

X deciduous tree: alder, maple, aspen, other

X evergreen tree: fir, cedar, pine, other

X shrubs

X grass

____ pasture

——— crop or grain

——— wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other

——— water plants: water lily, eelgrass, milfoil, other

——— other types of vegetation

b. What kind and amount of vegetation will be removed or altered? **Landscaping plants in the area of work will be removed and replaced at the end of construction.**

c. List threatened or endangered species known to be on or near the site. **None.**

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: **Landscaping installed for the residential development, including native plant buffer area along Lake Washington, will be maintained.**

5. Animals

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other:

b. List any threatened or endangered species known to be on or near the site. **Salmon in Lake Washington and May Creek, adjacent to the site.**

c. Is the site part of a migration route? If so, explain. **Salmon migration occurs in Lake Washington and May Creek.**

d. Proposed measures to preserve or enhance wildlife, if any: **none.**

6. Energy and natural resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electricity is required to operate the groundwater pumps and controls for the groundwater extraction and treatment system.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. **No.**

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any: **Groundwater pumping will be regulated to optimize the performance of the system. Pumping will be focused on wells with greatest contamination, and pulsed operation (intermittent pumping) may be implemented to maximize contaminant removal while reducing the volume of water pumped.**

7. Environmental health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

Groundwater generated from pumping will contain arsenic above drinking water standards; water discharged to the sewer system will not contain arsenic above discharge limits.

1) Describe special emergency services that might be required. **The groundwater system will include automated controls to shut the system down if water accumulation exceeds the discharge rate, before the holding tank overfills.**

2) Proposed measures to reduce or control environmental health hazards, if any: **See above regarding automated controls and alarms.**

b. Noise

1) What types of noise exist in the area which may affect your project (for example, traffic, equipment, operation, other)? **None.**

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site. **During construction of the treatment system, heavy equipment will be operated during normal workday construction hours. The project will involve use of submersible pumps with motors; however, the pumps will be installed below ground in wells, and are not expected to elevate noise levels at the site.**

3) Proposed measures to reduce or control noise impacts, if any: **Pumps will be installed below ground.**

8. Land and shoreline use

What is the current use of the site and adjacent properties? **The subject property is residential. The property to the north, on which two well points will be installed, is industrial but currently vacant. Other surrounding land use includes residences to the south and a railroad right-of-way to the east.**

a. Has the site been used for agriculture? If so, describe. **No.**

b. Describe any structures on the site. **The site contains townhomes and community buildings.**

c. Will any structures be demolished? If so, what? **No.**

d. What is the current zoning classification of the site? **Commercial/Office/Residential.**

e. What is the current comprehensive plan designation of the site? **Commercial/Office/Residential**

f. If applicable, what is the current shoreline master program designation of the site? **Urban.**

g. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify. **Yes – a portion of the site is classified as a "Chinook Distribution" area.**

h. Approximately how many people would reside or work in the completed project? **None.**

i. Approximately how many people would the completed project displace? **None.**

j. Proposed measures to avoid or reduce displacement impacts, if any: **NA.**

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: **NA.**

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. **None.**

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. **None.**

c. Proposed measures to reduce or control housing impacts, if any: **NA**

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? **No structures are proposed. Equipment will be at or below ground level.**

b. What views in the immediate vicinity would be altered or obstructed? **None.**

c. Proposed measures to reduce or control aesthetic impacts, if any: **Wells, piping, and equipment will be installed below ground level to reduce aesthetic impacts.**

11. Light and glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur? **None.**

b. Could light or glare from the finished project be a safety hazard or interfere with views? **No.**

c. What existing off-site sources of light or glare may affect your proposal? **None.**

d. Proposed measures to reduce or control light and glare impacts, if any: **NA.**

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity? **Boating on Lake Washington.**

b. Would the proposed project displace any existing recreational uses? If so, describe. **No.**

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: **NA**

13. Historic and cultural preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe. **No.**

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site. **None.**

c. Proposed measures to reduce or control impacts, if any: **NA**

14.. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any. **The project site is accessed from Lake Washington Boulevard North. The site includes streets North 42nd Place and Williams Avenue North.**

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop? **No. The nearest bus stop is 1 mile away.**

c. How many parking spaces would the completed project have? How many would the project eliminate? **NA**

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private). **No.**

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. **No.**

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur. **None.**

g. Proposed measures to reduce or control transportation impacts, if any: **None.**

15. Public services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe. **No.**

b. Proposed measures to reduce or control direct impacts on public services, if any. **NA**

16. Utilities

a. Circle utilities currently available at the site: **electricity, natural gas, water, refuse service, telephone, sanitary sewer,** septic system, other.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed. **The proposed system requires an electrical connection and a sewer connection, both of which have been made and are stubbed-out to the proposed equipment area.**

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: .....

Date Submitted: October 30, 2009

Attachment A – Document List

1. January 11, 1999, Ecology letter to Mr. Carl Einberger, Hart Crowser, Inc., Subject: Waste Designation at the Barbee Mill Site, Renton, Washington; Re: Hart Crowser, Inc. letter report J-4946-10 dated November 17, 1998

2. November 5, 1990 (1999?), Ecology letter to Mr. Robert Cugini, Barbee Mill Company, Inc., Re: Sediment Analysis of Dredge Spoils from May Creek, Barbee Mills, Renton,

3. September 12, 2000, Ecology letter to Mr. Carl Einberger, Hart Crowser, Inc., Re: Independent Remedial Action Plan, Upland Areas, Barbee Mill Company, Renton, Washington, Revised September 6, 2000

4. March 1, 2001, Ecology letter to Mr. Carl Einberger, Hart Crowser, Inc., Re: Dangerous Waste Designation - F035, Barbee Mill Site, Renton, Washington

5. February 27, 2003, Ecology letter to Mr. Robert Cugini, Barbee Mill Co., Re: Independent Remedial Action, Barbee Mill Co.

6. April 3, 2003, Ecology letter to Mr. Robert Cugini, Barbee Mill Co., Re: Stockpiled Sediment Materials, Independent Remedial Action, Barbee Mill Co.

7. September 6, 2005, Ecology letter to Mr. Robert Cugini, Barbee Mill Company, Re: Joint Aquatic Resources Permit Application (JARPA) for Barbee Mill Shoreline Restoration Project, Lake Washington, King County, Washington

8. May 17, 2006, Ecology letter to Mr. Robert Cugini, Vice President, Barbee Mill Company, Re: Opinion pursuit to WAC 173-340-515(5) on Proposed Remedial Action for the following Hazardous Waste Site: Barbee Mill

9. June 1, 2006, EPA Region 10 memorandum to Lynda Priddy, Project Manager, from Rene Fuentes, Hydrogeologist, Office of Environmental
10. Assessment, Subject: Barbee Mill Company Arsenic Plume Independent Remedial Action Plan Addendum, February 8, 2006

Remedial Action Documents

11. November 17, 1998, letter report from Hart Crowser, Re: Updated Summary of Soil and Groundwater Data, Barbee Mill

12. November 17, 1998, letter from Hart Crowser, Re: Waste Designation at the Barbee Mill Site

13. December 17, 1998, letter report from Hart Crowser, Re: Supplemental Report, Additional Site Data, Barbee Mill

14. January 25, 1999, memorandum from Hart Crowser, Re: Review of Facility areas at Barbee Mill

15. May 10, 1999, letter report from Hart Crowser, Re: Review of Site History and Characterization Data, and Proposed Additional Investigation Work, Barbee Mill Company

16. July 16, 1999, transmittal from Hart Crowser, Barbee Mill Co. Site and Exploration Plan, Tables 1-9: Soil and Groundwater Samples

17. November 9, 1999, Draft Remedial Investigation and Focused Feasibility Study for the Quendall Terminals Property, Exponent

18. January 17, 2000, letter from Hart Crowser, Re: Future Use of Dredged Bark and Wood Debris – Barbee Mill Co.

19. September 6, 2000, revised, Independent Remedial Action Plan, Upland Areas, Barbee Mill Company, Hart Crowser

20. January 25, 2001, letter from Hart Crowser, Re: Dangerous Waste Designation at the Barbee Mill Site

21. May 2004, Draft Risk Assessment/Feasibility Study, Port Quendall Terminals Site, Anchor Environmental, L.L.C.

22. February 8, 2006 Draft Independent Remedial Action Plan Addendum, Upland Areas, Aspect Consulting, LLC

23. May 16, 2006, letter from Aspect Consulting, Re: Supplemental Information for IRAP Addendum, Barbee Mill (VCP Site #NW0182)

24. June 21, 2006, Construction Report, Barbee Mill Arsenic Remediation, Aspect Consulting, LLC

25. June 21, 2006, Construction Report, Barbee Mill TPH and PCP Remediation, Aspect Consulting, LLC

26. December 15, 2006, memorandum from Aspect Consulting, Re: Passive Attenuation Zone Pilot Test Results, Barbee Mill Arsenic Remediation Project

27. August 2, 2006, draft Engineering Design Report, Barbee Mill Groundwater Remediation, Aspect Consulting, LLC

28. March 5, 2007, Construction and Performance Monitoring Plan, Barbee

Mill Groundwater Remediation Project, Aspect Consulting, LLC

29. received March 5, 2007, undated Construction Specifications, Barbee Mill Passive Attenuation Zone, Aspect Consulting, LLC

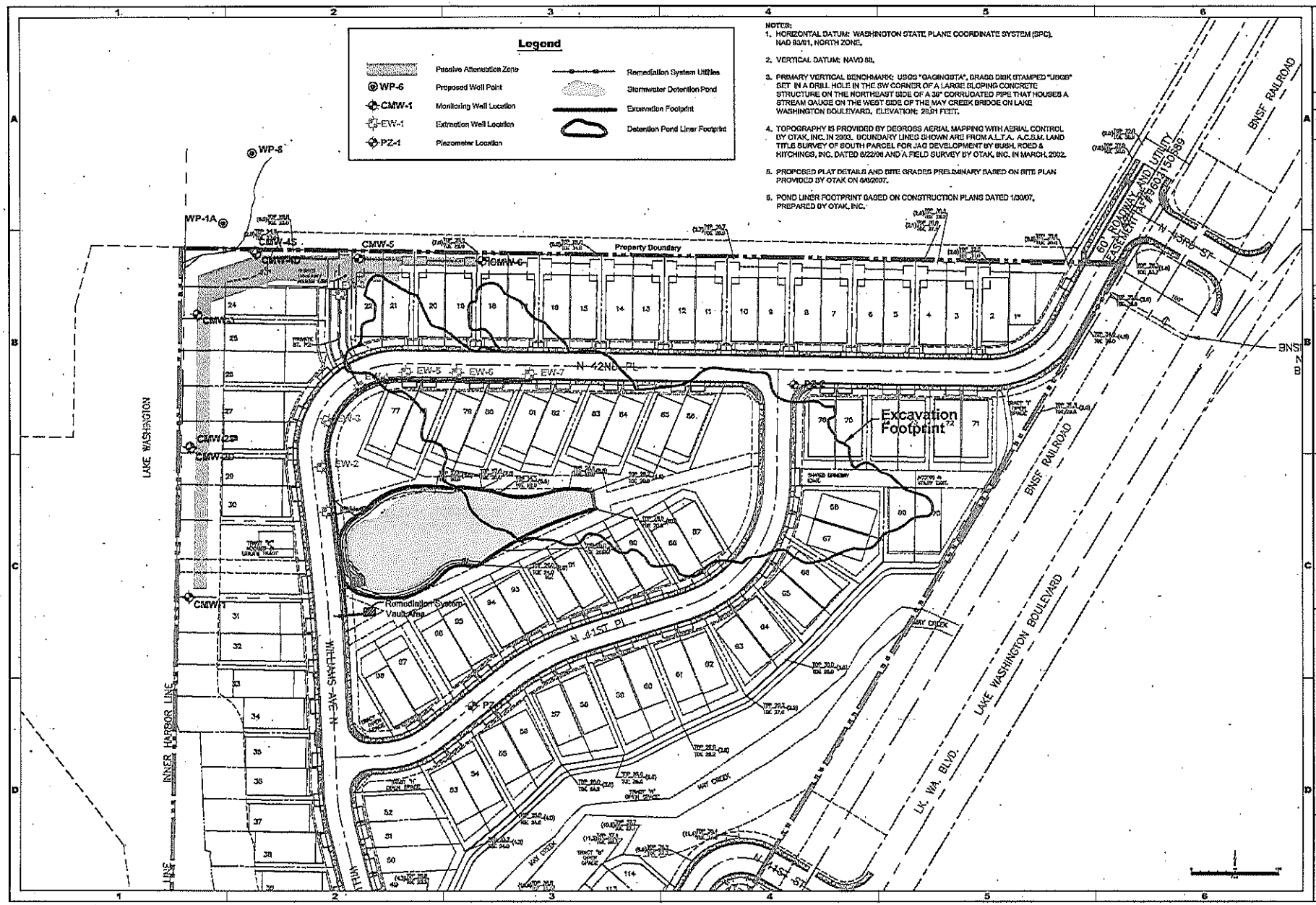
30. received March 5, 2007, undated Remedial Action Management Plan, Project: Barbee Mill PAZ, Clearcreek Contracting Company

31. July 12, 2007, letter from Clearcreek Contractors, Re: Spill #561806

32. August 4, 2007, email from John Funderburk, Sound Environmental Strategies, Re: Barbee Mill

33. October 5, 2007, Construction Report – Passive Attenuation Zone, Barbee Mill Arsenic Remediation, Aspect Consulting, LLC

34. December 3, 2007, Partial Sufficiency and Further Action Determination letter to Mr. Robert Cugini from Mr. Mark Adams



Aspect consulting
NATURAL RESOURCES
www.aspectconsulting.com

Barbee Mill
Passive Attenuation Zone
Monitoring Well Location Plan
4101 Lake Washington Blvd. North
Seattle, Washington

SHEET REFERENCE NUMBER: 3
SHEET 3 OF 3