WAC 197-11-960 Environmental checklist.

ENVIRONMENTAL CHECKLIST

A. BACKGROUND

1. Name of proposed project, if applicable:

   Model Toxics Control Act (MTCA) Cleanup of the closed Olympic View Sanitary Landfill

2. Name of applicant:

   Waste Management of Washington

3. Address and phone number of applicant and contact person:

   Waste Management – Closed Sites Group
   9300 SW Barney White Road
   Port Orchard, WA 98367

   Charles A. Luckie, Jr.

   (360) 415-2754

4. Date checklist prepared:

   September 28, 2010

5. Agency requesting checklist:

   Washington Department of Ecology – Northwest Regional Office, Waste to Resources Program

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

   Estimated Schedule – 2011

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

   No future additions, expansion or further activity, other than ongoing inspection, maintenance and monitoring are anticipated at this time.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

- Draft Final Remedial Investigation Report – Olympic View Sanitary Landfill, September 21, 2007, prepared by Parametrix
- Draft Final Feasibility Study – Olympic View Sanitary Landfill, June 2010, prepared by Engineering Management Support, Inc.
- Environmental Monitoring Plan, Olympic View Sanitary Landfill, December 17, 2009, prepared by Engineering Management Support, Inc.
- Ecological Risk Assessment – Olympic View Sanitary Landfill, December 2007, prepared by Arcadis
- Draft Final Human Health Risk Assessment, Olympic View Sanitary Landfill, December 2008, prepared by AMEC Geomatrix, Inc.
- Wetland Investigation and Assessment - Olympic View Sanitary Landfill, March 2001, prepared by Entrix
- Draft Cleanup Action Plan, Olympic View Sanitary Landfill, October 2010, issued by Department of Ecology

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.

No.

10. List any government approvals or permits that will be needed for your proposal, if known.

No new permits will be needed. The proposal assumes that the following current permits will be continued:

- Solid Waste Landfill Post Closure Permit issued by Kitsap County Health District
- Order of Approval to Construct, Install, or Establish issued by the Puget Sound Clean Air Agency for operating the landfill gas flare; Notice of Construction No. 6954, Registration No. 11042
- State Waste Discharge Permit No. 7271, issued by Department of Ecology for discharge of leachate to a wastewater treatment plant
- Baseline General Stormwater Permit for Industrial Activities (No. S03-0025538), issued by Department of Ecology

11. Give 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.)

Implementation of a MTCA cleanup action at a closed landfill site. The proposed cleanup action will include the following activities:

- Operations, maintenance, and monitoring activities
  - Inspection and maintenance of the landfill cover;
  - Control of growth of weeds and intrusive vegetation
  - Inspection and maintenance of stormwater runoff and control structures;
  - Extraction and collection of leachate from leachate collection system;
  - Storage and treatment of the collected leachate in the double lined and covered leachate pond;
  - Disposal of leachate through offsite disposal at the public owned treatment work (POTW) pursuant to the terms of the National Pollution Discharge Elimination System (NPDES) permit;
  - Inspection, maintenance, and any required repair of the leachate collection system pumps, piping, transfer and truck load out pumps and the leachate pond liner and cover;
  - Operation and maintenance of the landfill gas vacuum blowers, landfill gas extraction wells, and lateral and header piping;
  - Destruction of the landfill gas in landfill gas flare;
  - Operation of the landfill gas condensate traps to collect landfill gas condensate and disposal of the condensate in conjunction with leachate disposal;
  - Inspection, maintenance, and any required repair of the landfill gas extraction wells, lateral and header pipes, vacuum blowers, condensate traps, and landfill gas flare;
  - Inspection and maintenance of the perimeter fencing to limit trespass potential;
  - Inspection and maintenance of existing berms and, if necessary, construction of additional berms across roads or trails to limit trespass potential;
  - Performance of environmental monitoring of leachate, groundwater, stormwater, and soil gas; and
  - Inspection, repair and maintenance of the environmental monitoring points and systems.

- Repair/modification/upgrades of the landfill systems
  - Repair/modification of the landfill cover system along the landfill toe;
  - Inspection, and repair if necessary, of penetrations to cover system;
  - Repair/replacement of landfill gas extraction wells containing blockages that restrict gas extraction and flow;
  - Repair/replacement of landfill gas extraction system conveyance piping as needed to eliminate blockages that restrict gas extraction and flow;
  - Repair/replacement of condensate collection equipment as needed;
  - Maintenance/repair of landfill gas system vacuum blowers;

- Repair and improvement of the perimeter stormwater drainage diversion and control system; and
- Installation of additional landfill gas extraction well(s).

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 site is located in the Olympic View Industrial Park Complex at 10015 SW Old Barney White Road, Port Orchard, WA. The site is located in the Northeast Quarter of Section 10, Township 23 North, Range 1 West (Figures 2-1 and 2-2).

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other….

    Hilly.

b. What is the steepest slope on the site (approximate percent slope)?

    40%

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.

    Glacial outwash deposits consisting of silty sands and gravels with lenses of silt.. No prime farmland.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

    No. Site area is disturbed as a result of historic operation of a solid waste landfill at the site.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

Minor localized fill and grading to repair erosional damage to landfill cover, stormwater drainage ditches and retention ponds. Fill is obtained from on-site borrow areas associated with the historic landfill operations.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

No. All work envisioned under this proposal will occur on or adjacent to the closed solid waste landfill and is primarily intended to prevent, reduce, or repair erosional damage.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

No change is anticipated as a result of this project. Less than 1% of the site is currently covered by impervious surfaces.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Standard construction techniques including installation and maintenance of silt fences, hay bales and other means to prevent erosion followed by revegetation with grasses to control future erosion.

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.

No new emissions anticipated. Current emissions from the landfill gas collection and treatment system are subject to the conditions of Order of Approval No. 6954, issued by Puget Sound Clean Air Agency.

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:

Not applicable.

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.

Yes. Tributary 512 to the Union River is located approximately 150 feet south of the landfill. A wetland that is tributary to the Union River is located approximately 200 feet to the north or west of the landfill. The Union River and East Fork of the Union River are located to the west and northwest at distances ranging from approximately 300 to 900 feet from the property boundary. The Union River flows into Hood Canal approximately 5 miles to the southwest.

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.

No work is anticipated to occur within 200 ft of any of the surface water bodies; however, small portions of the margins of the wetlands are located within 200 ft of the landfill.

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.

Leachate from the landfill is currently discharged to the West Sound or City of Bremerton Publicly Owned Treatment Works (POTWs) pursuant to State Waste Discharge Permit (ST-7271) issued by the Department of Ecology. The volume

of leachate discharged to the POTWs varies significantly depending upon the time of year.

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.

Other than very minor amounts of groundwater withdrawn for sampling of groundwater monitoring wells, no groundwater withdrawal or discharge will occur with this project.

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.

Stormwater that falls on the site runs off into perimeter stormwater ditches which discharge to on-site retention basins. Water within the retention basins infiltrates into the ground or during periods of high flow, discharges into the adjacent wetlands areas or into Tributary 512. Stormwater discharge from the site (Site No. SO3002538C) is permitted under an Industrial Stormwater NPDES and State Waste Discharge Permit pursuant to the Industrial Stormwater General Permit.

2) Could waste materials enter ground or surface waters? If so, generally describe.

Waste materials are present in the existing landfill and leachate is generated when liquid passes through the waste. More than half of the landfill area is lined and a leachate collection system prevents leachate entry into ground or surface waters. Leachate generated in the old, unlined portion of the landfill could migrate to groundwater. All areas of the landfill are covered with an impermeable geomembrane that greatly reduces leachate generation.

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

Existing containment, collection and control measures are in place including a leachate collection system and stormwater management system. Leachate collection and treatment operations are conducted pursuant to a Solid Waste Landfill Closure Permit issued by Kitsap County Health District. Monitoring of leachate generation and groundwater quality are performed pursuant to this permit and the requirements of an Environmental Monitoring Plan and a Sampling and Analysis Plan prepared pursuant to MTCA and approved by the Department of Ecology. Stormwater management is conducted pursuant to a Stormwater Pollution Prevention Plan and the requirements of the stormwater permits listed above. Monitoring of stormwater discharges is performed pursuant to these permits.

4. Plants

a. Check or circle types of vegetation found on the site:

____X___ deciduous tree: alder, maple, aspen, other
____X___ evergreen tree: fir, cedar, pine, other
____X___ shrubs
____X___ grass
_____ pasture
_____ crop or grain
____X___ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
_____ water plants: water lily, eelgrass, milfoil, other
_____ other types of vegetation

Note: The project is for an existing facility. No plants other than native grasses planted and maintained on the surface of the landfill are present on the landfill area.

b. What kind and amount of vegetation will be removed or altered?

No removal of vegetation other than grasses on the landfill cover or in the perimeter drainages is anticipated. Areas of the landfill cover that are disturbed will be re-seeded with grasses as required by the Solid Waste Landfill Post Closure Permit.

c. List threatened or endangered species known to be on or near the site.

Summer run chum salmon (*Oncorhynchus keta)*
Fall Chinook salmon (*Oncorhynchus tyshawytscha)*

The wetlands were surveyed and documented. No record of rare plants, high quality native wetlands, or native plant communities were observed or are known to existing within the project site.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

None. Proposed activities are improvements to an existing facility. Disturbed areas will be re-vegetated with native grasses.

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 – Great blue heron, Stellar's jay, mallard, bald eagle, red-tailed hawk, rough-legged hawk, glaucous-winged gull, ring-billed gull, American crow.
mammals: deer, bear, elk, beaver, other – Black-tailed deer, muskrat, raccoon, deer mice.
fish: bass, salmon, trout, herring, shellfish, other – Coho, chum, red-legged frog.

b. List any threatened or endangered species known to be on or near the site.

Bald eagles have been observed in the vicinity of the site.

c. Is the site part of a migration route? If so, explain.

The site may be near a migratory route for seagulls, as seagull sightings at the landfill, during the period when the landfill was operational, reportedly increased during the migratory season. Ducks and geese are also observed in the vicinity of the site throughout the year and may use the general vicinity of the site as a migratory route.

d. Proposed measures to preserve or enhance wildlife, if any:

Recent placement of a floating cover over the existing leachate pond will reduce the potential for water fowl to use the lagoon as a resting area.

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.

No additional energy use is anticipated for the project. Future operations and maintenance activities associated with the landfill will use approximately the same electrical demand as the current activities. Currently, site post-closure

activities use electrical power to operate leachate collection and transfer pumps, landfill gas extraction blowers, lighting, and the on-site trailer.

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:

Reducing the quantity of leachate requiring treatment or offsite disposal will reduce energy usage through reduced trucking of leachate and reduced demand on the wastewater treatment plant receiving the leachate for final treatment.

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.

No.

1) Describe special emergency services that might be required.

None required beyond normal fire and emergency services. No special emergency services have been required in the past or are anticipated to be needed in the future.

2) Proposed measures to reduce or control environmental health hazards, if any:

Employees and contractors are trained in accordance with requirements and regulations of the Occupation Safety and Health Administration. As listed above, the site operations are subject to the plans and permits approved or issued by regulatory agencies including the Department of Ecology and the Kitsap County Health District. Examples include the Stormwater Pollution Prevention Plan, State Waste Discharge Permit, and others as noted above.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

There are no sources of noise in the immediate area of the project. A rail switching area is located near the project area.

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.

The only significant sources of noise from the project would be short-term noise associated with construction equipment used for excavation, grading and drilling. Minor continuous noise will occur onsite as a result of operation of blowers for the landfill gas collection and treatment system.

3) Proposed measures to reduce or control noise impacts, if any:

The project area is located near the center of an overall large property owned by the applicant. The larger property is covered with trees, brush and other vegetation that adequately muffle noise from the project.

8. Land and shoreline use

a. What is the current use of the site and adjacent properties?

The current use of the site is as a closed solid waste landfill. The adjacent properties are either undeveloped or are used for industrial activities including a solid waste transfer station.

b. Has the site been used for agriculture? If so, describe.

No.

c. Describe any structures on the site.

A trailer used as an office for employees and contractors operating the leachate collection and landfill gas extraction and treatment systems. A pump house is present on the landfill surface. A former scale house is present on site.

d. Will any structures be demolished? If so, what?

Structures associated with historic operation of the landfill such as the office building, pole barn, etc. were recently demolished.

e. What is the current zoning classification of the site?

Industrial.

f. What is the current comprehensive plan designation of the site?

Industrial.

g. If applicable, what is the current shoreline master program designation of the site?

Not applicable.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

No residents. Approximately 1 to 1.5 full time equivalent employees.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Not applicable.

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

Project is an improvement to an existing facility.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

Not applicable.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

Not applicable.

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

Not applicable.

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?

The tallest existing structures are the office trailer with an approximate height of 10 ft and the flare with an approximate height of 25 to 30 ft.

b. What views in the immediate vicinity would be altered or obstructed?

None.

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

Not applicable.

11. Light and glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None. There currently are only a limited number of lights around the office trailer and road intersections.

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:

Not applicable.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Passive recreation associated with the Union River Basin and an existing archery range (KB Archers) that is located adjacent to the southern portion of the project property.

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:

Not applicable.

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 present.

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

Not applicable.

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.

There are no public streets of highways serving the site. Access to the site has been and will remain via a private drive off of SW Barney White Road which provides access from State Highway 3.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

No.

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

No designated parking spaces are currently present on site and none will be created or eliminated as part of the project. Employees and contractors park in

open areas adjacent to the office trailer or on or adjacent to the internal roads at the site.

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.

The project site is located near the Belfair railway siding. Use of the railway siding or railway transportation is not anticipated to occur as part of the project.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

Approximately 2 at varying times.

g. Proposed measures to reduce or control transportation impacts, if any:

None. The project has minimal transportation impacts.

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.

Not applicable.

16. Utilities

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

Electricity
Refuse service
Telephone
Sanitary service is provided by portable toilets serviced by an offsite contractor.

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.

No additional utilities beyond those currently provided are anticipated to be required by the project.

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: September 28, 2010