

	Applicant: West Side Quarry LLC	
	BUD#: 20210727	
	Solid Waste: Asphalt roofing shingles used as a parking lot pad at Westside Quar Summary of Proposed Beneficial Use: Use shingle waste as feedstock for a hot asphalt batch plant. Asphalt manufactured from this feedstock will be used to construct roads and pads at Laurelwood Quarry.	
	Reviewer: Jeremy Fleming	Date: 7/27/2021
	Tier: One Two Three	

Beneficial Use of Solid Waste

Beneficial use of solid waste is a sustainability practice that may involve using an industrial waste in a manufacturing process to make another product or using a waste as a substitute for construction materials.

The environmental benefits of substituting industrial waste materials for virgin materials includes conserving energy, reducing the need to extract natural resources and reducing demand for disposal facilities.

Oregon Administrative Rules (OAR) 340-093-0280 - 0290 establish standing beneficial uses and a process for DEQ review of case-specific beneficial use proposals. Under these rules, DEQ may issue a beneficial use determination as an alternative to a disposal permit for proposals that meet the rule criteria. If approved, once a beneficial use determination is issued, DEQ no longer regulates the waste as a solid waste as long as the waste is used in accordance with the approved beneficial use determination.

Beneficial Use Determination Evaluation Summary

\boxtimes	Yes, the Beneficial Use of this solid waste meets all the case-specific performance criteria listed below and is
appr	roved.
	No, the Beneficial Use of this solid waste does not meet all the case-specific performance criteria listed below
and	is not approved.

Notes: The applicant met the Case-Specific Beneficial Use Performance Criteria.

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Case-Specific Beneficial Use Performance Criteria:

DEQ may approve an application for a case-specific beneficial use of solid waste only if all the following performance criteria are addressed: 1) Characterization of the Solid Waste; 2) Productive Beneficial Use of the Solid Waste; and, 3) The effect of the Proposed Beneficial Use on Public Health, Safety, Welfare and/or the Environment.

1) Characterization of the Solid Waste Did the applicant characterize the solid waste and proposed beneficial use sufficiently to demonstrate compliance with the rules for case-specific beneficial use determinations (OAR 340-093-0280) by submitting required information for the appropriate tier? (See tier sections below for detailed characterization information.) ⊠ Yes No Was the following information submitted for DEQ review and how adequate was it? Tier 1 Did the applicant provide an adequate description of the material proposed for beneficial use, the manner of generation and the estimated quantity to be used beneficially each year? Notes: The proposed material is asphalt shingles that have been shredded and deposited onto the ground for use as a parking pad for road construction equipment. The material has been used as a parking pad for several years. Inspection of the parking pad found evidence of small automotive fluid leaks from the equipment onto the pad. The pad is approximately six to eight inches thick and comprises a total volume of approximately 700 cubic yards. Did the applicant provide an adequate description of the proposed beneficial use and justify how the proposed use is beneficial? ⊠ Yes □ No Notes: The recovered parking pad material will be used exclusively as a feedstock for a hot asphalt batch plant under the control of West Side Quarry's owner. Asphalt manufactured from this feedstock will be used to construct roads and pads at Laurelwood Quarry. This material is similar to recycled asphalt shingles that are allowed to be used for a similar use under the Recycled Asphalt Shingles standing beneficial use determination.

Did the applicant provide a sufficient comparison of the chemical and physical characteristics of the material proposed for beneficial use with the material it will replace? X Yes \ \ \ \ No

Notes: Westside Quarry provided Safety Data Sheets that describe the composition of the asphalt shingles and the automotive fluids (engine oil and hydraulic fluid) that have been leaked onto the parking pad. The asphalt shingles are identical to asphalt shingles that are allowed to be used to manufacture asphalt under the standing BUD. The type and amount of automotive fluid contamination is substantially similar to recycled asphalt pavement that is allowed to be used to manufacture asphalt under the standing BUD.

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)	Did the applicant successfully demonstrate compliance of the proposed beneficial use with the performance criteria in OAR 340-093-0280 based on knowledge of the process that generated the material, properties of the finished product, or testing? Yes No		
	Notes: The waste satisfies all conditions in OAR 340-093-0280. The use of asphalt shingles previously used as a parking lot pad for production of new asphalt is productive with demonstrated benefits for hot asphalt batch plant operators as an effective feedstock substitute. The materials are not hazardous waste under ORS 466.005. The automotive fluid contamination on the parking pad is in low enough concentrations such that the risk of levels for persistence or bioaccumulation is minimal. The beneficial use of this waste will not create objectable odors, dust or other nuisance conditions.		
	Westside Quarry proposes to use the used asphalt shingles at a percentage rate of no greater than 5-6% in the base course and 5% in the top course. Westside Quarry asserts that the use of the waste at this rate meets or exceeds the specifications provided by the engineer at Laurelwood Quarry responsible for the construction of onsite roads and pads.		
)	If required, did the applicant provide any other DEQ required information to evaluate the proposal? Yes No Notes: NA		
Fier 2			
,	Did the applicant submit all the information required for a Tier 1 application? ☐ Yes ☐ No		
	Notes: See Tier 1 summary above.		
•	Did the applicant submit adequate sampling and analysis to make a determination of suitability for beneficial use? (Note: The analysis must provide chemical, physical, and biological characterization of the material proposed for beneficial use and identify potential contaminants in the material or the end product, as applicable.) \[\textstyle{\textstyle{1}} \textstyl		
	Notes: NA. The waste material does not contain hazardous substances significantly exceeding the concentration in a comparable commercial product (RAS and RAP). For this reason, DEQ is not requiring West Side Quarry to submit sampling results or laboratory analysis of this waste material.		
,	When applicable, did the applicant provide a risk screening comparing the concentration of hazardous substances in the material to existing, DEQ approved, risk-based screening level values, and demonstrate compliance with acceptable risk levels? Yes No		
	Notes: NA. The waste material does not contain hazardous substances significantly exceeding the concentration in a comparable commercial product (RAS and RAP). For this reason, DEQ is not requiring West Side Quarry to submit sampling results or laboratory analysis of this waste material.		
,	When applicable, did the applicant supply the location or type of land use where the material will be		

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Notes: The asphalt manufactured from the parking pad asphalt shingles will be used to build roads and parking pads at the Larurelwood Quarry exclusively. When applicable, did the applicant supply contact information of property owner(s) if this is a site-specific land application proposal, including name, address, phone number, e-mail, site address and site ⊠ Yes □ No coordinates (latitude and longitude)? Notes: Yes. The BUD applicant is the owner of both the West Side Quarry and the Laurelwood Quarry. Did the applicant supply an adequate description of how the material will be managed to minimize potential adverse impacts to public health, safety, welfare, or the environment? X Yes X No Notes: Yes. DEQ is requiring that the parking pad shingles be removed from West Side Quarry prior to October 15, 2021 in order to perform this work prior to the start of the rainy season. The waste materials will be transferred to Laurelwood Quarry and placed within the designated "Asphalt Shingle Storage Area". The use of the waste as feedstock in the hot asphalt batch plant must be done in accordance with the Air Contaminant Discharge Permit (AQGP-007) that is issued to the owner of both the Laurelwood Quarry and the West Side Quarry. Tier 3 Applicable Not applicable 2) Productive Beneficial Use of the Solid Waste Has the applicant demonstrated that the proposed beneficial use is a productive use of the material by providing information substantiating the criteria listed below? Yes No Notes: Did the applicant successfully identify or demonstrate a reasonably likely proposed beneficial use for the material that is not speculative? ⊠ Yes □ No This criterion consists of three parts. 1. Identified Use: Has the applicant clearly stated what the waste is going to be used for, that the waste is compatible with that use and the proposed quantity is necessary? ⊠ Yes □ No 2. Reasonably Likely Use: Has the applicant identified, with supporting documentation, the timeframe within which this use is

3. Not Speculative:

For Land application - has this material been used at other sites for the same purpose, is the material feasible for use at this site for this purpose, or has the applicant identified a known potential for this use at this site?

likely to occur (e.g., zoning info, master plan for development, letters from local jurisdictions, etc)?

⊠ Yes □ No

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mate	uses other than land application - has the material been used in a product before, is the erial feasible for use in a product, or has the applicant identified a known potential for use in product?
uno	☐ Yes ☐ No ☒ N/A
Notes:	
	valuable part of a manufacturing process, an effective substitute for a valuable raw material al product, or otherwise authorized by the Department and does not constitute disposal? Yes No
	use is an effective substitute for recycled asphalt shingles in the production of in a hot-asphalt batch plant.
Is the use in horticultural	accordance with applicable engineering standards, commercial standards, and agricultural or practices? $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
<u>of no gi</u> <u>asserts</u> provide	West Side Quarry proposes to use the used asphalt shingles at a percentage rate reater than 5-6% in the base course and 5% in the top course. West Side Quarry that the use of the waste at this rate meets or exceeds the specifications d by the engineer at Laurelwood Quarry responsible for the construction of ondes and pads.
3) Effect of Propos	sed Beneficial Use on Public Health, Safety, Welfare and/or the Environment
safety, welfare, or the	monstrated the proposed beneficial use will not create an adverse impact to public health, e environment, by providing information substantiating compliance with the criteria listed in
the bullet list below?	⊠ Yes □ No
Has the appl	icant demonstrated that the material is not a hazardous waste under ORS 466.00?
Notes:	
determinatio	icant demonstrated that until the time this material is used according to a beneficial use n, the material will be managed, including any storage, transportation, or processing, to ases to the environment or nuisance conditions?
<u>Quarry</u> <u>rainy se</u>	DEQ is requiring that the parking pad shingles be removed from West Side prior to October 15, 2021 in order to perform this work prior to the start of the eason. Performing the removal and transfer of this waste material in the dry will minimize potential trackout from West Side Quarry. The use of the waste as

feedstock in the hot asphalt batch plant must be done in accordance with the Air Contaminant Discharge Permit (AQGP-007) that is issued to the owner of West Side

Quarry.

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Has the applicant demonstrated that hazardous substances in the material, if any, meet one of the criteria in the bulleted list below? Yes No
 Hazardous substances do not significantly exceed the concentration in a comparable raw material or commercial product; Hazardous substances do not exceed naturally occurring background concentrations; or Hazardous substances will not exceed acceptable risk levels, including persistence and potential bioaccumulation, when the material is managed according to a beneficial use determination.
Notes:
Has the applicant demonstrated that the proposed beneficial use will not result in the increase of a hazardous substance in a sensitive environment, such as a park, wildlife refuge or wetland? ☐ Yes ☐ No
Notes:
Has the applicant demonstrated that the proposed beneficial use will not create objectionable odors, dust, unsightliness, fire, or other nuisance conditions? ☐ Yes ☐ No
Notes: The use of the waste as feedstock in the hot asphalt batch plant must be done in accordance with the Air Contaminant Discharge Permit (AQGP-007) that is issued to the owner of West Side Quarry. The AQ permit contains conditions requiring the permittee to not cause or allow air contaminants from any source related to the operation of the hot asphalt batch plant to cause nuisance conditions.
Has the applicant indicated that the proposed beneficial use will comply with any other applicable federal, state, and local regulations? ☐ Yes ☐ No
Notes: Any uses must be done in accordance with DEQ's Air Quality Program, Oregon Department of Geology and Mineral Industries and local zoning regulations.
blic Involvement Evaluation (Note: this is not a Beneficial Use evaluation criterion) nine a public involvement recommendation using the current, <i>Guidance to DEQ Solid Waste Program</i> and Managers on Public Notice & Participation.
Is public notice and participation being recommended for this application? Yes No DEQ anticipates public interest in the community surrounding Laurelwood Quarry to be low. Therefore, DEQ is not issuing a public notice for this proposed beneficial use approval.