



State of Oregon
Department of
Environmental
Quality

Portable Source Risk Assessment Summary

Facility Name:	Valley Environmental	Source Type:	Portable	
Source Description:	Air Curtain Incinerator			
Toxics Emissions Units				
Name	Description	Max. Hourly Throughput¹	Max. Daily Throughput¹	Max. Annual Throughput¹
Air Curtain Incinerator	AirBurner S-220	1.0 tons/hr	24 tons/dy	8760 tons/yr
Diesel Engine	Hatz Diesel Engine, Model 3H50TIC Tier 4	0.35 gal/hr	8.4 gal/dy	3066 gal/yr
Risk Assessment				
Level	Model Used	Meteorology	Material Moisture:	
2	ACI Risk Assessment Tool (ODEQ)	Portland	70% dry 30% wet	
Risk Results				
Assessment	Cancer x 10⁻⁶ ²	Chronic HI²	Acute HI	
Risk	≤10.4	≤1.4	≤1.4	
Uncertainty Discussion:				
There is limited information regarding the emissions of toxic air contaminants from air curtain incinerators. DEQ used the best available information at the time of the risk assessment. For that reason, risk may be overestimated or underestimated. DEQ also used residential risk values when calculating cancer and noncancer chronic risk values, which may overestimate risk based on the actual exposure scenarios where the ACI is operated.				
Supporting Information:	ODEQ Air Curtain Incinerator Tool Documentation			
Permit Conditions –Source Risk Limits				
CAO Source Risk Limits				
Throughput Limits				
The portable source will be restricted from operating above the TLAER Risk Action Levels, which requires limiting daily and annual throughput based on the distance from the portable source to the nearest exposure location.				

¹ Based on company estimate, ² Based on residential exposure

Throughput Limit Table

The throughput limitations shown in the table are reflective of CAO Source Risk Limits.

Distance (m)	Daily Throughput Limit (tons/day)	Location Throughput Limit (tons/year)
Distances less than 40m	No operation permitted	
40	10	1,486
50	10	2,891
60	11	3,601
70	12	4,130
80	13	4,592
90	14	5,043
100	16	5,499

110	18	5,962
120	19	6,447
130	21	6,952
140	22	7,467
150	24	7,993
Greater than 160	No Limit	No Limit