

APPENDIX E.1

FACILITY LIFE CALCULATIONS



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: PPK

Date: 1/2010

Checked By: CMS

Date: 1/2010

TITLE: EXPECTED LIFE OF VEOLIA ES ZION LANDFILL WITH SITE 2 EAST EXPANSION

Approximate Remaining Capacity of Existing Landfill

Remaining Capacity (as of January 1, 2009)	=	3,344,910 airspace cubic yards (gross airspace)
	=	3,344,910 airspace cubic yards x 1.0 tons per airspace cubic yard (utilization rate)
	=	3,344,910 tons

Incremental Capacity of Expansion (excluding existing airspace)

Expansion Capacity (per utilization factor)	=	8,953,000 airspace cubic yards (gross airspace)
	=	8,953,000 airspace cubic yards x 1.0 tons per airspace cubic yard
	=	8,953,000 tons

Projected Capacity of Expanded Landfill (including existing airspace)

Total Capacity	=	3,344,910 airspace cubic yards + 8,953,000 airspace cubic yards 12,297,910 airspace cubic yards (gross airspace)
	=	3,344,910 tons + 8,953,000 tons 12,297,910 tons (available for waste)

Approximate Life of Expanded Landfill (assuming an average of 886,600 tpy)	=	<u>(12,297,910 tons)</u> (886,600 tons / year)
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(as of January 1, 2009)	=	13.9 years
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(as of January 1, 2010)	=	12.9 years
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Note: The expanded landfill is projected to operate until approximately the end of 2022, assuming waste is received at an average rate of 886,600 tons per year (3,100 tons per day, 286 operating days per year or 5 ½ days per week) over the life of the expansion.

Utilization factor and compacted density of waste at the Veolia ES Zion Landfill is higher relative to other landfills due to a greater proportion of waste soil materials accepted.
