

ESMS 4.3.1-2 ED Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
Diesel Fuel Delivery	Rupture of tank, tank overflow or spill/leak of diesel oil. Catastrophic tank failure and possible tanker accident (7,500 gallons or less)	X			X			X	X	X	JS	5	5	3	3		5	3	5	3	2	3	
											ST	5	3	3	5		5	2	5	2	5	5	
											RS	5	4	2	5		3	4	4	4	4	5	
											DS	5	3	5	3		4	5	4	4	3	5	
											LC	5	5	3	4		4	3	5	3	4	2	
											LD	5	5	2	5		4	4	4	4	4	5	
									AVG	5.0	4.2	3.0	4.2	16.3	4.2	3.5	4.5	3.3	3.7	4.2	23.3		
Filling, Storing and Dispensing Diesel Fuel from AST (diesel fuel 20,000 gallons each (4)	Rupture of tank, tank overflow or spill/leak of diesel oil. Catastrophic tank failure and possible tanker accident	X			X			X	X	X	JS	5	5	3	3		5	3	5	3	2	3	
											ST	5	3	3	5		5	2	5	2	5	5	
											RS	5	4	2	5		3	4	4	4	4	5	
											DS	5	3	5	3		4	5	4	4	3	5	
											LC	5	5	3	4		4	3	5	3	4	2	
											LD	5	5	2	5		4	4	4	4	4	5	
									AVG	5.0	4.2	3.0	4.2	16.3	4.2	3.5	4.5	3.3	3.7	4.2	23.3		
Transfer of Fluids via Forklift Between the Heavy Maintenance and Preventive Maintenance Buildings	Spill of oil or chemical maximum of 275 gallons (size of largest tote)	X			X			X	X	X	JS	3	5	2	2		4	3	4	3	4	3	
											ST	3	3	1	1		3	1	5	2	3	3	
											RS	2	3	4	5		3	3	3	3	3	2	
											DS	3	4	4	3		4	4	3	4	3	3	
											LC	4	4	4	4		4	3	4	3	4	3	
											LD	3	4	4	4		4	3	3	3	3	3	
									AVG	3.0	3.8	3.2	3.2	13.2	3.7	2.8	3.7	3.0	3.3	2.8	19.3		
Emmissions	Carbon Emissions		X					X	X	X	JS	2	2	5	5		3	3	2	3	5	4	
											ST	5	2	5	5		3	3	5	4	5	4	
											RS	2	2	5	5		3	3	1	3	1	4	
											DS	2	2	5	5		3	3	2	2	1	4	
											LC	2	2	5	5		3	3	2	3	1	4	
											LD	2	2	5	5		3	3	2	3	1	4	
									AVG	2.5	2.0	5.0	5.0	14.5	3.0	3.0	2.3	3.0	2.3	4.0	17.7		
Unloading or Emptying of Oil/Water Separators (OWS), Grit Chambers (GCs) and Trench Drains via Vacuum Truck	Spill of oil/water separator, grit chamber or trench drain removed materials (oily sludge, gray water).	X			X	X		X	X	X	JS	2	2	2	2		3	2	4	2	3	2	
											ST	1	1	1	1		3	1	5	1	3	3	
											RS	4	5	2	5		3	2	3	3	3	3	
											DS	4	4	3	3		4	4	3	3	3	2	
											LC	4	5	4	3		3	3	2	3	3	3	
											LD	4	5	4	4		3	3	4	3	3	3	
									AVG	3.2	3.7	2.7	3.0	12.5	3.2	2.5	3.5	2.5	3.0	4.0	18.7		
Bus Parking on Lot	Off duty bus sits in parking lot and may leak fluids	X	X					X	X	X	JS	1	1	1	1		2	1	2	2	1	2	
											ST	5	2	5	5		4	3	4	2	4	5	
											RS	5	3	2	5		3	2	4	3	3	4	
											DS	5	4	3	2		4	4	4	4	3	3	
											LC	5	2	4	1		3	2	4	3	3	3	
											LD	5	3	2	3		3	2	4	3	4	3	
									AVG	4.3	2.5	2.8	2.8	12.5	3.2	2.3	3.7	2.8	3.0	3.3	18.3		
Bus Operations	Fuel Consumption	X	X					X	X		JS	5	3	5	2		2	4	2	3	1	3	
											ST	5	5	5	5		1	2	2	5	4	5	
											RS	4	3	4	4		1	4	1	4	1	5	
											DS	3	1	4	3		1	3	2	4	1	5	
											LC	4	2	4	3		1	3	2	4	1	1	
											LD	4	3	5	4		1	3	2	4	1	5	
									AVG	4.2	2.8	4.5	3.5	15.0	1.2	3.2	1.8	4.0	1.5	4.0	15.7		

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points

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Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
Changing Engine Oil; Changing Transmission Oil; Changing Hydraulic Oil; Changing Coolant	Use as: Virgin Transmission Oil; Virgin Differential Oil; Virgin Hydraulic Oil; Virgin Coolant	X			X			X	X	X	JS	2	2	3	2		3	2	3	2	3	2	
											ST	5	5	5	5		3	5	5	1	3	1	
											RS	4	4	5	5		2	3	2	4	3	3	
											DS	3	2	2	3		3	3	2	2	1	3	
											LC	4	3	3	5		4	2	1	3	2	2	
											LD	4	3	3	5		3	3	2	3	2	3	
											AVG	3.7	3.2	3.5	4.2	14.5	3.0	3.0	2.5	2.5	2.3	2.3	15.7
Preventive Maintenance on Streetcars	Streetcar Controllers Contain Asbestos		X		X			X	X	X	JS	4	2	3	4		5	4	4	4	4	5	
											ST	2	3	2	4		3	1	1	1	2	5	
											RS	2	4	2	5		2	3	1	3	2	3	
											DS	2	3	3	4		4	3	1	2	2	4	
											LC	3	4	3	3		4	4	3	3	4	2	
											LD	2	4	3	4		4	3	1	3	2	3	
											AVG	2.5	3.3	2.7	4.0	12.5	3.7	3.0	1.8	2.7	2.7	3.7	17.5
Changing Engine Oil; Changing Transmission Oil; Changing Hydraulic Oil; Changing Coolant	Spill of oil or material from container or during transfer using drum cart with pump.	X			X	X		X	X	X	JS	2	2	3	2		3	2	3	2	3	2	
											ST	3	5	3	5		3	2	3	1	4	2	
											RS	3	5	5	3		2	3	2	4	3	4	
											DS	2	2	2	3		3	2	2	2	1	3	
											LC	4	3	3	5		4	2	1	3	2	2	
											LD	3	5	5	3		4	2	2	3	3	3	
											AVG	2.8	3.7	3.5	3.5	13.5	3.2	2.2	2.2	2.5	2.7	2.7	15.3
AST (Oil, Used Oil, Transmission Fluid, Oil, Coolant, Grease)	Spill or leak of fluids	X		X	X	X		X	X	X	JS	3	3	3	2		3	2	3	2	3	2	
											ST	3	3	2	5		5	5	5	2	5	2	
											RS	2	3	3	5		2	1	1	3	2	3	
											DS	2	2	2	3		3	2	2	2	1	2	
											LC	4	4	3	2		2	2	2	4	2	3	
											LD	4	4	3	5		2	2	2	3	2	3	
											AVG	3.0	3.2	2.7	3.7	12.5	2.8	2.3	2.5	2.7	2.5	2.5	15.3
Bulk Delivery of Fluids	Spill Potential	X			X						JS	3	3	3	2		3	2	3	2	3	2	
											ST	5	5	2	4		4	2	4	2	4	2	
											RS	3	3	2	2		2	2	1	3	3	3	
											DS	3	3	3	2		3	3	3	3	3	3	
											LC	3	3	3	2		4	2	3	3	2	2	
											LD	3	3	3	2		2	2	3	3	3	3	
											AVG	3.3	3.3	2.7	2.3	11.7	3.0	2.2	2.8	2.7	3.0	2.5	16.2
AST (Oil, Used Oil, Transmission Fluid, Oil, Coolant, Grease)	Spill or leak of fluids	X			X	X		X	X	X	JS	3	3	3	2		3	2	3	2	3	2	
											ST	3	3	2	5		3	3	4	3	5	3	
											RS	3	3	2	5		2	1	1	1	2	2	
											DS	3	3	2	5		3	3	2	3	2	3	
											LC	3	3	2	5		2	2	2	4	2	1	
											LD	3	2	2	5		2	2	4	3	2	1	
											AVG	3.0	2.8	2.2	4.5	12.5	2.5	2.2	2.7	2.7	2.7	2.0	14.7
Steam Cleaning Bay and Used Oil Press	Spill or leak of fluids	X			X			X	X	X	JS	3	3	3	2		3	2	3	2	3	2	
											ST	3	3	3	3		5	5	5	2	5	2	
											RS	3	3	5	3		2	1	1	3	2	3	
											DS	3	2	2	3		3	2	1	2	2	4	
											LC	4	4	3	2		2	2	2	4	2	1	
											LD	3	3	3	3		2	2	1	2	2	3	
											AVG	3.0	3.0	3.0	3.0	12.0	2.5	2.5	2.5	2.5	2.5	2.5	12.0

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											AVG	3.2	3.0	3.2	2.7	12.0	2.8	2.3	2.2	2.5	2.7	2.5	15.0

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Transporting Waste Fluorescent Lamps	Fluorescent lamp replacement and disposal	X	X		X	X		X	X	X	JS	2	2	2	2		3	2	3	2	3	2	
											ST	1	2	4	1		2	1	2	5	3	3	
											RS	3	3	3	5		2	3	3	4	3	4	
											DS	3	2	2	4		3	2	2	2	2	2	
											LC	3	3	4	2		2	3	2	3	2	4	
											LD	3	3	3	5		2	3	2	3	3	3	
											AVG	2.5	2.5	3.0	3.2	11.2	2.3	2.3	2.3	3.2	2.7	3.0	15.8
Servicing Air Conditioning on Buses	Remove and add R22 Ozone Depleting Substances to vehicle AC		X	X				X	X		JS	2	2	2	2		2	2	2	2	3	1	
											ST	2	5	3	5		3	3	3	5	3	1	
											RS	2	3	3	4		2	3	2	4	2	3	
											DS	3	3	2	3		3	2	2	2	2	3	
											LC	2	2	2	5		4	3	2	2	1	3	
											LD	3	3	3	4		4	3	2	2	2	3	
											AVG	2.3	3.0	2.5	3.8	11.7	3.0	2.7	2.2	2.8	2.2	2.3	15.2
Pressure Washing and Steam Cleaning Buses	Wastewater generation from steaming	X			X			X	X	X	JS	1	1	1	1		1	1	1	1	1	1	
											ST	2	3	5	2		2	3	2	2	3	3	
											RS	4	3	5	3		1	5	2	4	3	5	
											DS	4	2	3	3		2	3	2	3	2	4	
											LC	4	3	4	3		1	3	2	3	2	3	
											LD	4	3	4	3		2	3	2	3	3	4	
											AVG	3.2	2.5	3.7	2.5	11.8	1.5	3.0	1.8	2.7	2.3	3.3	14.7
Vehicle Lifts	Spill or disposal of hydraulic fluid	X			X	X		X	X	X	JS	2	2	2	2		3	2	2	2	2	2	
											ST	2	3	2	3		3	4	4	2	3	1	
											RS	2	3	3	5		2	3	3	4	3	4	
											DS	3	3	3	4		3	2	1	3	2	3	
											LC	3	3	3	2		2	2	2	4	2	1	
											LD	3	3	3	3		2	2	2	4	2	3	
											AVG	2.5	2.8	2.7	3.2	11.2	2.5	2.5	2.3	3.2	2.3	2.3	15.2
Building Operations	Electric usage	X	X		X			X	X	X	JS	1	1	1	1		1	1	1	1	1	1	
											ST	5	5	5	5		1	5	2	3	3	4	
											RS	5	1	5	5		1	1	1	3	2	3	
											DS	2	1	2	2		1	2	2	1	1	2	
											LC	5	3	5	5		1	3	3	4	3	4	
											LD	5	3	5	5		1	1	2	4	3	2	
											AVG	3.8	2.3	3.8	3.8	13.8	1.0	2.2	1.8	2.7	2.2	2.7	12.5
Emergency Generators	Emergency generator emissions		X					X	X	X	JS	1	2	1	1		2	1	1	1	2	1	
											ST	2	2	3	3		1	4	5	4	5	5	
											RS	2	3	3	5		2	4	1	5	4	5	
											DS	3	2	2	3		3	4	1	2	1	5	
											LC	2	2	2	1		2	5	1	3	1	4	
											LD	2	2	5	3		2	4	1	3	1	5	
											AVG	2.0	2.2	2.7	2.7	9.5	2.0	3.7	1.7	3.0	2.3	4.2	16.8
Used Fluorescent Lamp Bulb Crusher and Disposal	Crushing and disposal of spent fluorescent bulbs	X	X		X	X		X	X	X	JS	2	2	2	2		2	2	2	2	2	2	
											ST	1	3	5	4		2	4	2	1	1	1	
											RS	2	3	5	4		2	1	1	3	3	3	
											DS	4	3	3	4		3	4	1	3	2	3	
											LC	3	2	3	4		3	4	2	3	2	1	
											LD	3	3	3	4		3	4	1	3	2	3	
											AVG	2.5	2.7	3.5	3.7	12.3	2.5	3.2	1.5	2.5	2.0	2.2	13.8

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		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
Office Heat & A/C Units; HVAC Preventative Maintenance and Repair of A/C Chillers	Freon use/Refilling		X					X	X	X	JS	2	2	2	2		2	2	2	2	2	2	2
											ST	2	3	4	5		3	4	3	2	3	2	
											RS	2	4	3	5		2	2	1	3	2	2	
											DS	3	3	2	3		3	2	2	3	2	3	
											LC	2	2	2	5		3	3	2	2	1	3	
											LD	2	3	3	5		2	2	2	2	2	2	
										AVG	2.2	2.8	2.7	4.2	11.8	2.5	2.5	2.0	2.3	2.0	2.3	13.7	
Vehicle Lifts in Preventive Maintenance Building	Spill or disposal of hydraulic fluid	X			X	X		X	X	X	JS	2	2	2	2		3	2	2	2	2	2	
											ST	1	2	2	4		2	1	1	1	1	1	
											RS	2	2	5	4		2	4	1	4	3	4	
											DS	3	2	2	4		3	4	2	3	1	5	
											LC	3	3	3	4		2	2	2	4	2	1	
											LD	3	3	3	4		2	4	2	3	2	4	
										AVG	2.3	2.3	2.8	3.7	11.2	2.3	2.8	1.7	2.8	1.8	2.8	14.3	
Filling, Storing and Dispensing Compressed Natural Gas	Venting or Leaking Natural Gas into the Atmosphere		X					X	X		JS	2	2	2	2		3	3	5	2	2	4	
											ST	2	2	2	2		1	1	1	1	2	1	
											RS	1	1	2	1		1	1	1	1	1	1	
											DS	4	3	5	4		3	4	3	3	3	4	
											LC	5	3	5	1		3	3	3	3	3	3	
											LD	4	3	4	3		2	3	3	3	3	3	
										AVG	3.0	2.3	3.3	2.2	10.8	2.2	2.5	2.7	2.2	2.3	2.7	14.5	
Transit Centers and Roadways	Potential for off-site accidents and fluid spills	X			X			X	X	X	JS	2	2	2	1		2	1	5	2	2	2	
											ST	1	1	1	1		1	1	1	1	2	1	
											RS	2	3	2	5		3	2	3	3	2	3	
											DS	3	3	3	2		4	3	4	2	4	4	
											LC	3	2	4	2		2	2	3	3	3	3	
											LD	3	3	3	3		3	3	3	3	3	3	
										AVG	2.3	2.3	2.5	2.3	9.5	2.5	2.0	3.2	2.3	2.7	2.7	15.3	
Filling, Storing and Removal of Used Oils	Disposal of used oil	X			X	X		X	X	X	JS	3	3	3	2		3	2	3	2	3	2	
											ST	5	4	3	2		3	5	3	5	3	3	
											RS	5	1	3	3		2	1	1	3	2	1	
											DS	4	1	2	3		3	3	1	3	2	3	
											LC	4	1	3	1		3	1	1	2	1	1	
											LD	4	1	3	3		3	1	1	2	2	1	
										AVG	4.2	1.8	2.8	2.3	11.2	2.8	2.2	1.7	2.8	2.2	1.8	13.5	
Chemical Storage and Use	Spill/leak of chemicals	X			X			X	X	X	JS	4	3	3	3		4	3	4	3	4	3	
											ST	1	3	1	1		3	1	3	2	3	1	
											RS	2	2	2	2		2	2	3	4	3	2	
											DS	1	1	1	2		1	1	1	2	1	1	
											LC	5	3	3	3		4	3	2	4	2	3	
											LD	4	3	3	3		2	2	2	4	2	2	
										AVG	2.8	2.5	2.2	2.3	9.8	2.7	2.0	2.5	3.2	2.5	2.0	14.8	
Chemical Storage and Use	Empty containers	X		X	X	X		X	X	X	JS	2	2	2	2		3	2	3	2	3	2	
											ST	1	1	3	1		1	1	1	1	1	1	
											RS	4	2	5	5		1	3	3	3	3	3	
											DS	2	1	3	2		2	2	1	2	1	2	
											LC	4	2	5	4		2	3	2	3	2	3	
											LD	4	2	5	4		2	3	2	3	2	3	

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
		Blue	Cyan	Red	Green	Brown																	
											AVG	2.8	1.7	3.8	3.0	11.3	1.8	2.3	2.0	2.2	2.2	2.3	12.8

ESMS 4.3.1-2 ED Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
Fluid Check and Fill	Spill of oil or fluids from hose reel or during transfer using drum cart with pump.	X			X	X		X	X	X	JS	2	2	3	2		3	2	3	2	3	2	
											ST	3	3	1	1		1	1	2	1	2	2	
											RS	2	3	3	3		2	3	2	4	3	4	
											DS	2	2	2	3		3	3	2	2	1	3	
											LC	4	3	3	1		4	2	1	3	2	2	
											LD	2	3	3	3		3	3	2	3	2	2	
											AVG	2.5	2.7	2.5	2.2	9.8	2.7	2.3	2.0	2.5	2.2	2.5	14.2
Preventive Maintenance Oil Changes	Used Oil Filters	X			X	X		X	X	X	JS	1	1	1	1		2	1	1	1	2	1	
											ST	3	2	5	2		3	1	3	1	3	1	
											RS	4	4	5	5		2	3	1	3	3	3	
											DS	4	1	5	3		1	2	1	3	1	3	
											LC	2	2	5	3		1	4	1	4	1	1	
											LD	4	2	5	3		1	3	1	3	1	3	
											AVG	3.0	2.0	4.3	2.8	12.2	1.7	2.3	1.3	2.5	1.8	2.0	11.7
Exit Signs	Existence of tritium exit signs (as labeled)	X	X		X			X	X	X	JS	1	1	1	1		2	1	1	1	2	2	
											ST	1	2	2	5		2	2	2	1	2	2	
											RS	2	5	1	5		2	1	1	2	1	2	
											DS	2	3	2	5		3	3	2	2	2	2	
											LC	3	5	2	5		5	2	3	4	3	1	
											LD	2	5	2	5		2	2	2	2	2	2	
											AVG	1.8	3.5	1.7	4.3	11.3	2.7	1.8	1.8	2.0	2.0	1.8	12.2
Lighting the Facility	Electric usage	X	X		X			X			JS	1	1	1	1		1	1	1	1	1	1	
											ST	5	3	5	5		1	5	2	1	2	1	
											RS	4	2	5	5		1	1	2	3	3	3	
											DS	2	1	2	2		1	1	2	1	1	2	
											LC	4	1	5	5		1	1	4	4	3	1	
											LD	4	2	5	5		1	1	2	3	3	2	
											AVG	3.3	1.7	3.8	3.8	12.7	1.0	1.7	2.2	2.2	2.2	1.7	10.8
HVAC Repairs	Refrigerant		X					X	X	X	JS	1	1	1	1		2	1	1	1	1	1	
											ST	3	3	3	3		3	3	3	5	4	2	
											RS	1	4	2	5		2	2	1	3	2	2	
											DS	3	3	2	3		3	2	2	3	2	3	
											LC	3	2	3	5		2	1	1	2	2	1	
											LD	3	2	3	5		2	2	1	3	2	2	
											AVG	2.3	2.5	2.3	3.7	10.8	2.3	1.8	1.5	2.8	2.2	1.8	12.5
Emergency Generators	Oil, fuel	X			X	X		X	X	X	JS	1	2	1	1		2	1	1	1	2	1	
											ST	4	5	1	1		2	1	2	2	3	2	
											RS	2	3	3	3		2	3	2	3	3	3	
											DS	4	3	2	3		3	4	1	2	1	4	
											LC	2	2	2	2		2	4	1	3	1	4	
											LD	2	2	3	3		2	4	2	3	1	4	
											AVG	2.5	2.8	2.0	2.2	9.5	2.2	2.8	1.5	2.3	1.8	3.0	13.7
Preventative Maintenance on Air Compressors	Used Hydraulic Oil	X		X	X	X		X	X	X	JS	2	2	2	2		3	2	3	2	4	2	
											ST	2	3	2	5		3	1	3	1	3	1	
											RS	1	1	2	5		2	1	1	1	2	2	
											DS	2	2	2	3		3	2	2	2	2	2	
											LC	2	1	2	5		3	2	2	3	4	2	
											LD	2	1	2	5		2	2	2	3	4	2	
											AVG	1.8	1.7	2.0	4.2	9.7	2.7	1.7	2.2	2.0	3.2	1.8	13.5

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance								
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points		
Carbon dioxide emissions	Empty spray cans	X	X	X	X	X		X	X	X	JS	2	2	2	2		3	2	3	2	3	2			
		ST	2	2	2	2					RS	2	3	2	5		1	4	3	3	2	1			
		DS	2	2	1	2					LC	2	3	2	5		2	2	1	2	2	1			
		LD	2	3	2	5					LD	2	3	2	5		2	3	2	3	2	1			
		AVG	2.0	2.5	1.8	3.5					AVG	2.0	2.5	1.8	3.5	9.8	1.8	2.7	2.0	2.7	2.0	1.7	12.8		
		Touch-up Painting Activities	Spray painting using oil based paints	X	X		X			X	X	X	JS	1	1	1	1		1	1	1	1	1	1	
		ST		2	3	2	2					RS	3	3	2	4		4	2	3	2	2	1		
DS	3	2		3	4					DS	2	2	3	4		2	2	2	3	2	3				
LC	4	2		3	2					LC	4	2	3	2		3	2	1	2	2	2				
LD	3	2		3	4					LD	3	2	3	4		3	2	2	2	2	3				
AVG	2.5	2.2		2.3	2.8					AVG	2.5	2.2	2.3	2.8	9.8	2.7	2.0	1.8	2.2	2.0	2.2	3	12.8		
Battery Storage Room	Spill from acid or alkaline leak from batteries	X		X		X	X		X	X	X	JS	3	2	2	2		3	2	3	2	3	2		
		ST	2	3	1	1					RS	3	3	3	2		2	1	2	1	2	1			
		DS	3	2	3	3					DS	3	2	3	3		3	2	2	3	2	2			
		LC	2	2	3	1					LC	2	2	3	1		3	1	3	2	2	1			
		LD	3	3	2	3					LD	3	3	2	3		3	2	2	3	2	2			
		AVG	2.7	2.5	2.3	2.0					AVG	2.7	2.5	2.3	2.0	9.5	2.7	1.7	2.2	2.5	2.2	1.8	13.0		
		Paint Still	Cleaning Paint Guns	X	X	X	X			X	X	X	JS	1	1	1	1		1	1	1	1	1	1	
ST	1			2	3	3					RS	2	3	2	4		2	3	3	3	2	2			
DS	2			2	4	4					DS	2	2	4	4		3	3	2	3	2	2			
LC	4			2	3	4					LC	4	2	3	4		3	2	1	2	2	2			
LD	2			2	3	4					LD	2	2	3	4		3	2	1	3	2	2			
AVG	2.0			2.0	2.7	3.3					AVG	2.0	2.0	2.7	3.3	10.0	2.3	2.0	1.5	2.5	2.0	1.8	12.2		
Human Waste Clean-up	Bio-hazard waste			X	X		X			X	X	X	JS	1	2	2	1		2	1	3	1	2	1	
		ST	2	2	5	1					RS	2	2	5	1		2	5	2	1	2	1			
		DS	2	3	5	1					DS	2	3	5	1		1	5	1	3	1	2			
		LC	3	2	5	1					LC	3	2	5	1		3	5	2	2	1	2			
		LD	2	2	5	1					LD	2	2	5	1		1	5	2	2	1	2			
		AVG	2.0	2.2	4.5	1.0					AVG	2.0	2.2	4.5	1.0	9.7	1.7	4.3	2.0	1.7	1.3	1.5	12.5		
		Grease, Oil and Lubrication of Equipment	Aerosol cans	X	X		X			X	X	X	JS	1	1	1	1		2	1	1	1	2	1	
ST	2			2	3	2					RS	2	2	3	5		2	1	3	1	3	1			
DS	2			2	3	3					DS	2	2	3	3		1	2	2	3	1	3			
LC	4			2	3	4					LC	4	2	3	4		2	3	1	3	1	1			
LD	4			2	3	4					LD	4	2	3	4		2	3	2	3	1	3			
AVG	2.5			1.8	2.7	3.2					AVG	2.5	1.8	2.7	3.2	10.2	1.7	2.2	1.8	2.3	1.8	2.0	11.8		
Clean-up of Minor Oil Spills	Oil absorbant waste			X			X			X	X	X	JS	1	1	1	1		2	1	1	1	2	1	
		ST	2	2	2	2					RS	3	4	3	5		2	1	2	1	2	1			
		DS	2	2	2	3					DS	2	2	2	3		2	3	2	4	3	3			
		LC	2	2	2	2					LC	2	2	2	2		3	2	1	1	1	3			
		LD	2	2	2	5					LD	2	2	2	5		2	2	2	4	2	1			
		AVG	2.0	2.0	2.0	2.8					AVG	2.0	2.0	2.0	2.8	10.0	2.0	2.0	2.0	2.0	2.0	2.0	3		

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
		Blue	Cyan	Red	Green	Brown																	
											AVG	2.0	2.2	2.3	3.0	9.5	2.2	1.8	1.7	2.5	2.0	2.0	12.2

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
Replacing Halogen Headlights	Used Halogen Headlights			X	X			X	X	X	JS	2	2	2	2		2	2	2	2	2	2	2
											ST	1	1	5	4		1	1	1	1	1	1	1
											RS	2	2	3	5		1	2	1	3	1	2	2
											DS	4	2	3	4		1	2	2	2	1	3	3
											LC	3	2	3	4		3	1	2	3	2	1	1
											LD	4	2	3	4		1	2	2	3	1	1	1
											AVG	2.7	1.8	3.2	3.8	11.5	1.5	1.7	1.7	2.3	1.3	1.7	10.2
Office HVAC Units	Electric usage	X	X		X			X			JS	1	1	1	1		1	1	1	1	1	1	1
											ST	2	2	5	5		1	5	1	1	1	1	1
											RS	2	2	5	5		1	1	2	3	3	3	3
											DS	2	1	5	5		1	1	2	1	1	2	2
											LC	1	1	5	5		1	3	2	2	1	4	4
											LD	2	2	5	5		1	1	2	2	1	2	2
											AVG	1.7	1.5	4.3	4.3	11.8	1.0	2.0	1.7	1.7	1.3	2.2	9.8
Change Tires	Used tires			X	X	X		X	X		JS	1	1	1	1		2	1	1	1	1	1	1
											ST	5	1	5	3		3	1	3	1	3	2	2
											RS	4	1	5	3		1	1	1	1	1	1	1
											DS	4	1	5	3		1	1	1	2	1	3	3
											LC	4	2	5	2		3	1	2	4	2	1	1
											LD	4	1	5	3		1	1	1	2	1	1	1
											AVG	3.7	1.2	4.3	2.5	11.7	1.8	1.0	1.5	1.8	1.5	1.5	9.2
Small Parts Cleaning in Parts Washer	Brake parts cleaning fluid accumulates degreasers, etc. in ultrasonic cleaner	X			X			X	X	X	JS	1	1	1	1		1	1	1	1	1	1	1
											ST	2	2	3	2		2	4	2	2	2	2	2
											RS	3	2	2	4		2	2	2	3	2	2	2
											DS	2	2	2	3		3	2	1	2	2	2	2
											LC	3	2	3	2		2	2	2	2	2	2	2
											LD	3	2	2	3		2	2	2	2	2	2	2
											AVG	2.3	1.8	2.2	2.5	8.8	2.0	2.2	1.7	2.0	1.8	1.8	11.5
Waste Electronics	Broken, damaged or unserviceable electronics disposal	X		X	X	X					JS	1	2	2	2		3	2	2	2	2	2	2
											ST	2	3	1	1		3	1	3	1	3	2	2
											RS	2	3	2	3		3	1	3	2	1	1	1
											DS	1	2	2	4		3	1	2	1	1	1	1
											LC	2	2	2	3		3	1	3	3	2	2	2
											LD	2	2	2	3		3	1	2	2	1	1	1
											AVG	1.7	2.3	1.8	2.7	8.5	3.0	1.2	2.5	1.8	1.7	1.5	11.7
Preventative Maintenance of Pumps	Use of grease	X		X	X			X	X	X	JS	1	1	1	1		1	1	1	1	1	1	1
											ST	2	3	3	2		2	5	3	2	3	1	1
											RS	1	3	2	3		2	2	1	2	2	1	1
											DS	2	1	1	2		3	2	1	2	1	1	1
											LC	1	3	3	3		3	2	2	3	2	2	2
											LD	1	3	3	3		3	2	2	3	3	2	2
											AVG	1.3	2.3	2.2	2.3	8.2	2.3	2.3	1.7	2.2	2.0	1.3	11.8
Bus Wash	Water usage	X			X	X					JS	3	2	2	2		2	2	3	2	3	3	3
											ST	2	1	3	5		1	3	2	2	2	2	2
											RS	3	1	2	2		1	1	1	1	2	1	1
											DS	3	2	2	3		3	2	2	2	2	3	3
											LC	1	1	1	3		1	1	1	2	1	1	1
											LD	3	2	2	3		1	1	1	1	1	1	1
											AVG	2.5	1.5	2.0	3.0	9.0	1.5	1.7	1.7	1.7	1.8	1.8	10.2

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points

ESMS 4.3.1-2 ED Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance							
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points	
Touch-up Painting Activities	Filter media and used paint booth filters	X		X	X			X	X	X	JS	1	1	1	1		1	1	1	1	1	1	1	
											ST	2	3	3	2		1	5	2	2	3	1	1	
											RS	2	2	2	2		1	2	1	2	1	2	2	
											DS	2	2	2	1		2	1	2	2	1	2	2	
											LC	3	3	3	1		4	2	2	3	2	3	3	
											LD	2	2	2	2		2	2	2	2	1	2	2	
											AVG	2.0	2.2	2.2	1.5	7.8	1.8	2.2	1.7	2.0	1.5	1.8	11.0	
Trash Compactor	Housekeeping issue	X		X	X					JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	2	2	3	3		2	2	2	2	2	2	2		
										RS	3	3	3	3		2	3	1	3	2	3	3		
										DS	2	2	3	2		1	2	1	1	2	3	3		
										LC	4	1	3	1		1	1	1	1	1	1	1		
										LD	3	3	3	2		1	2	1	1	2	3	3		
										AVG	2.5	2.0	2.7	2.0	9.2	1.3	1.8	1.2	1.5	1.7	2.2	9.7		
Office Activities, Use of Paper and other Supplies	Waste paper, used misc. supplies			X		X		X	X	JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	4	2	5	1		1	1	1	1	1	1	1		
										RS	4	1	5	2		1	1	1	3	1	2	2		
										DS	4	1	5	2		1	2	1	2	1	3	3		
										LC	4	1	5	1		1	1	1	3	1	1	1		
										LD	4	1	5	2		1	1	1	3	1	2	2		
										AVG	3.5	1.2	4.3	1.5	10.5	1.0	1.2	1.0	2.2	1.0	1.7	8.0		
Bus Repairs	Metal recycling					X				JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	3	2	5	2		1	1	1	1	2	1	1		
										RS	2	1	5	2		1	1	1	3	1	1	1		
										DS	2	1	5	2		1	2	1	2	1	3	3		
										LC	4	2	5	3		3	1	2	2	1	2	2		
										LD	2	1	5	2		1	1	2	2	1	2	2		
										AVG	2.3	1.3	4.3	2.0	10.0	1.3	1.2	1.2	1.8	1.2	1.7	8.3		
Lubrication of Axels	Auto-lubrication of axel's to prevent damage to axel	X			X		X	X	X	JS	1	1	1	1		2	1	1	1	2	1	1		
										ST	1	1	3	1		1	1	1	1	1	1	1		
										RS	2	1	3	3		2	3	1	3	2	3	3		
										DS	3	3	3	3		3	3	2	2	2	4	4		
										LC	2	1	2	1		2	1	1	1	1	1	1		
										LD	2	1	2	3		2	3	1	3	2	3	3		
										AVG	1.8	1.3	2.3	2.0	7.5	2.0	2.0	1.2	1.8	1.7	2.2	10.8		
Chemical Storage and Use	Empty drums			X		X		X	X	JS	2	2	2	2		3	2	3	2	3	2	2		
										ST	1	1	1	1		1	1	1	1	1	1	1		
										RS	3	1	3	3		1	1	1	1	2	1	1		
										DS	2	1	1	2		2	2	1	2	1	1	1		
										LC	3	2	3	3		2	1	2	2	2	2	2		
										LD	3	2	3	3		1	1	2	1	3	1	1		
										AVG	2.3	1.5	2.2	2.3	8.3	1.7	1.3	1.7	1.5	2.0	1.3	9.5		
Lubrication of Streetcar Track and Switchgear	Grease applied to curved area of track to prevent wheel bite	X			X					JS	1	1	1	1		2	1	1	1	2	1	1		
										ST	1	1	5	1		1	1	1	1	1	1	1		
										RS	2	3	5	1		1	1	1	2	1	1	1		
										DS	2	1	5	1		1	2	1	2	2	2	2		
										LC	2	3	5	1		1	2	1	3	2	2	2		
										LD	2	3	5	1		1	2	1	3	2	2	2		
										AVG	2	3	5	1		1	2	1	3	2	2	2		

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
		Water	Air	Waste Mgmt.	Ground	Recyclable																	
											AVG	1.7	2.0	4.3	1.0	9.0	1.2	1.5	1.0	2.0	1.7	1.5	8.8

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance							
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points	
Copy Machine and Printers	Used ink cartridges	X		X	X	X			X	X		JS	1	1	1	1		1	1	1	1	1	1	
											ST	2	2	5	3		2	1	2	1	2	2		
											RS	3	2	5	2		1	1	1	1	1	1		
											DS	2	2	5	3		1	1	1	1	1	1		
											LC	2	2	5	3		1	1	1	3	1	1		
											LD	3	2	5	3		1	1	1	1	1	1		
										AVG	2.2	1.8	4.3	2.5	10.8	1.2	1.0	1.2	1.3	1.2	1.2	7.0		
Streetcars braking during route	Release of brake dust		X		X						JS	1	1	1	1		1	1	1	1	1	1		
										ST	2	2	5	2		1	1	1	1	1	1			
										RS	1	1	5	1		1	3	1	3	2	4			
										DS	2	2	5	1		1	2	1	2	1	3			
										LC	2	1	5	1		2	1	1	1	1	1			
										LD	2	1	5	1		1	2	1	2	1	3			
										AVG	1.7	1.3	4.3	1.2	8.5	1.2	1.7	1.0	1.7	1.2	2.2	8.8		
Hot Water Heaters	Electric usage		X		X					JS	1	1	1	1		1	1	1	1	1	1			
										ST	1	1	3	1		1	5	1	1	1	1			
										RS	3	2	5	5		1	1	1	3	3	1			
										DS	2	1	2	2		1	1	2	1	1	2			
										LC	1	2	2	2		1	3	1	4	1	4			
										LD	2	2	2	2		1	1	1	2	1	2			
										AVG	1.7	1.5	2.5	2.2	7.8	1.0	2.0	1.2	2.0	1.3	1.8	9.3		
Cardboard Waste	Universal waste	X		X				X	X		JS	1	1	1	1		1	1	1	1	1	1		
										ST	2	1	3	1		1	1	1	1	1	1			
										RS	2	1	3	2		1	3	1	3	3	3			
										DS	2	1	1	2		1	2	1	1	1	3			
										LC	3	2	1	2		2	3	2	3	2	2			
										LD	4	1	1	2		1	2	1	3	2	3			
										AVG	2.3	1.2	1.7	1.7	6.8	1.2	2.0	1.2	2.0	1.7	2.2	10.2		
Clean-up of Minor Oil Spills	Oily rags	X			X			X	X	X	JS	1	1	1	1		2	1	1	1	2	1		
										ST	1	1	5	2		1	1	1	1	1	1			
										RS	2	1	3	1		2	2	1	3	2	3			
										DS	2	1	3	3		3	2	1	2	1	2			
										LC	2	1	3	2		3	1	1	2	1	1			
										LD	2	1	3	2		3	2	1	2	1	1			
										AVG	1.7	1.0	3.0	1.8	7.5	2.3	1.5	1.0	1.8	1.3	1.5	9.5		
HVAC Preventative Maintenance and Repair	Scrap Metal Waste; Solid Waste generation			X		X		X	X	X	JS	1	1	1	1		1	1	1	1	1	1		
										ST	1	1	3	1		2	1	1	1	1	1			
										RS	1	2	3	3		1	2	1	3	3	3			
										DS	2	2	3	2		2	2	1	2	2	1			
										LC	2	2	2	3		2	2	1	2	1	1			
										LD	2	2	2	3		2	2	1	3	2	1			
										AVG	1.5	1.7	2.3	2.2	7.7	1.7	1.7	1.0	2.0	1.7	1.3	9.3		
Janitorial Cleaning Materials	Use and storage of janitorial chemicals through facility	X	X	X	X			X	X		JS	1	1	1	1		1	1	1	1	1	1		
										ST	2	2	3	2		2	2	2	2	3	1			
										RS	2	2	3	1		1	2	1	3	1	2			
										DS	1	1	3	2		3	2	1	2	1	3			
										LC	2	1	3	1		2	1	1	2	2	1			
										LD	2	2	3	1		2	2	1	2	1	2			

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
											AVG	1.7	1.5	2.7	1.3	7.2	1.8	1.7	1.2	2.0	1.5	1.7	9.8

ESMS 4.3.1-2 ED Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance							
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points	
Painting Buildings, Structures and Equipment	Use mostly latex or water based paint (all non-haz waste) and bring used containers off with them.	X	X		X			X	X			JS	1	2	2	2		3	2	2	2	2	2	
												ST	2	2	1	1		2	1	2	1	2	1	
												RS	2	1	2	1		1	1	1	1	1	1	
												DS	2	2	3	2		2	1	2	2	1	1	
												LC	2	2	2	3		2	3	1	3	1	3	
												LD	2	2	2	2		1	2	1	1	1	1	
										AVG	1.8	1.8	2.0	1.8	7.5	1.8	1.7	1.5	1.7	1.3	1.5	9.5		
Grounds Keeping	Garbage or trash pick-up			X	X			X	X	X		JS	1	1	1	1		1	1	1	1	1	1	
												ST	1	1	5	3		2	2	2	1	2	2	
												RS	2	1	5	2		1	1	1	2	1	1	
												DS	1	2	5	3		1	1	1	1	1	1	
												LC	2	1	5	3		2	1	1	1	1	1	
												LD	2	1	5	3		1	1	1	1	1	1	
										AVG	1.5	1.2	4.3	2.5	9.5	1.3	1.2	1.2	1.2	1.2	1.2	7.2		
HVAC Preventative Maintenance and Repair	Coil cleaning	X	X		X			X	X	X		JS	1	1	1	1		1	1	1	1	1	1	
												ST	1	1	4	1		1	1	1	1	1	1	
												RS	2	2	3	2		1	2	1	2	2	3	
												DS	3	2	2	2		2	2	1	2	1	2	
												LC	2	2	2	3		2	2	1	2	1	1	
												LD	2	2	2	2		2	2	1	2	1	2	
										AVG	1.8	1.7	2.3	1.8	7.7	1.5	1.7	1.0	1.7	1.2	1.7	8.7		
Custodial Cleaning of Floors (Shop floors)	Use potable water in mop bucket and dump mop bucket water into trench drains to oil water separators.	X			X			X	X	X		JS	1	1	1	1		1	1	1	1	1	1	
												ST	2	1	5	2		1	1	1	1	1	1	
												RS	2	2	5	2		1	3	1	2	1	2	
												DS	1	2	2	3		3	2	1	3	1	1	
												LC	2	1	2	1		1	1	1	1	1	1	
												LD	2	2	2	4		1	2	1	2	1	1	
										AVG	1.7	1.5	2.8	2.2	8.2	1.3	1.7	1.0	1.7	1.0	1.2	7.8		
Preventative Maintenance on Air Compressors	Used air filters			X	X							JS	1	1	1	1		1	1	1	1	1	1	
												ST	1	1	4	1		1	5	1	1	1	1	
												RS	1	1	2	4		1	5	1	2	1	1	
												DS	2	2	1	2		1	5	1	2	1	1	
												LC	1	1	2	1		1	5	1	1	1	1	
												LD	1	1	2	2		1	5	1	1	1	1	
										AVG	1.2	1.2	2.0	1.8	6.2	1.0	4.3	1.0	1.3	1.0	1.0	9.7		
Replacing Desiccant Filter	Used desiccant filter			X	X							JS	1	1	1	1		1	1	1	1	1	1	
												ST	1	1	3	1		1	5	1	1	1	1	
												RS	2	2	1	4		2	2	2	3	2	2	
												DS	2	2	1	2		1	2	1	1	1	2	
												LC	2	2	2	1		1	1	1	2	1	1	
												LD	2	2	2	2		1	2	2	2	1	1	
										AVG	1.7	1.7	1.7	1.8	6.8	1.2	2.2	1.3	1.7	1.2	1.3	8.8		
Welding	Fumes		X									JS	1	1	1	1		1	1	1	1	1	1	
												ST	2	2	3	1		1	5	1	1	1	1	
												RS	1	1	3	1		1	3	1	2	1	3	
												DS	2	1	3	2		1	2	1	2	1	2	
												LC	2	1	2	1		1	2	1	1	1	2	
												LD	2	1	3	1		1	3	1	2	1	2	
										AVG	1.7	1.2	2.5	1.2	6.5	1.0	2.7	1.0	1.5	1.0	1.8	9.0		

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points

ESMS 4.3.1-2 ED Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance							
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points	
Bead blasting	Spent bead blast media	X	X	X	X			X	X		JS	1	1	1	1		1	1	1	1	1	1	1	
											ST	1	1	5	1		2	5	1	1	1	1	1	
											RS	2	2	3	1		1	2	1	1	1	1	3	
											DS	2	2	3	3		1	2	2	1	1	1	2	
											LC	2	1	2	1		1	2	1	1	1	1	1	
											LD	2	2	2	1		1	2	1	1	1	1	1	
											AVG	1.7	1.5	2.7	1.3	7.2	1.2	2.3	1.2	1.0	1.0	1.5	8.2	
Natural Light in Building	Natural light allows for less electricity use for lighting during the day									JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	1	1	1	5		1	1	1	1	1	1	1		
										RS	5	1	2	5		1	1	2	3	1	1	3		
										DS	1	1	1	1		1	1	1	1	1	1	1		
										LC	1	1	1	1		1	3	1	4	1	1	4		
										LD	1	1	1	1		1	2	1	3	1	1	4		
										AVG	1.7	1.0	1.2	2.3	6.2	1.0	1.5	1.2	2.2	1.0	2.3	9.2		
Office HVAC Units	Filters	X	X	X	X					JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	1	1	3	1		1	1	1	1	1	1	1		
										RS	2	2	3	1		1	1	1	3	2	2	2		
										DS	2	2	3	1		2	1	2	2	1	2	2		
										LC	1	1	3	1		1	1	2	3	1	2	2		
										LD	2	2	3	1		1	1	2	2	2	2	2		
										AVG	1.5	1.5	2.7	1.0	6.7	1.2	1.0	1.5	2.0	1.3	1.7	8.7		
Janitorial Cleaning of Floors (administration areas)	Use potable water in mop bucket and dump mop bucket water into outdoor collection area which drains to Area Treatment.	X			X					JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	2	1	3	3		1	1	1	1	1	1	1		
										RS	1	2	3	1		1	1	1	3	1	3	3		
										DS	2	1	3	2		1	2	1	2	1	2	2		
										LC	3	1	2	1		1	1	1	1	1	1	1		
										LD	2	1	2	1		1	1	1	2	1	2	2		
										AVG	1.8	1.2	2.3	1.5	6.8	1.0	1.2	1.0	1.7	1.0	1.7	7.5		
Herbicides (Round-up) Use	Application of herbicides on grassy areas	X			X		X	X	X	JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	2	2	3	2		2	1	2	1	2	1	1		
										RS	2	1	3	2		1	1	1	2	1	2	2		
										DS	1	2	3	1		1	2	1	2	1	2	2		
										LC	2	1	2	1		1	1	1	1	1	1	1		
										LD	1	2	3	2		1	1	1	1	1	1	1		
										AVG	1.5	1.5	2.5	1.5	7.0	1.2	1.2	1.2	1.3	1.2	1.3	7.3		
Spill Kits in Preventive Maintenance Building	Extra spill kits located through facility for spill clean up									JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	1	1	1	1	1	1	1	1	1	1	1	1		
										RS	2	2	5	5		2	1	1	3	2	2	2		
										DS	1	1	1	1		1	1	1	1	1	1	1		
										LC	1	1	3	1		1	1	1	3	1	2	2		
										LD	1	1	2	1		2	1	1	3	2	2	2		
										AVG	1.2	1.2	2.2	1.7	6.2	1.3	1.0	1.0	2.0	1.3	1.5	8.2		
Grinding, Bead Blasting	Dust generation		X				X	X	X	JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	1	1	3	1		1	5	1	1	1	1	1		
										RS	2	2	1	1		1	2	1	1	1	3	3		
										DS	2	2	2	2		1	2	1	1	1	2	2		
										LC	2	1	2	1		1	2	1	1	1	1	1		
										LD	2	2	2	1		1	2	1	1	1	1	1		
										AVG	1.2	1.2	2.2	1.7	6.2	1.3	1.0	1.0	2.0	1.3	1.5	8.2		

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance						
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points
		Water	Air	Waste Mgmt.	Ground	Recyclable																	
											AVG	1.7	1.5	1.8	1.2	6.2	1.0	2.3	1.0	1.0	1.0	1.5	7.8

ESMS 4.3.1-2 ED_Evaluation of Environmental Aspects and Impacts Matrix

Activity	Aspect	Aspect Impact on Environment					Regulations				Raters	Environmental Significance					Business Significance							
		Water	Air	Waste Mgmt.	Ground	Recyclable	Other	Local	State	Federal		Scale	Severity	Probability	Duration	Total Points	Legal and Regulatory Exposure	Ease of Change/Technology Considerations	Effect on Public Image	Effect on Sustainability	Concerns of Interested Parties	Cost (included in points total)	Total Points	
Spill Kits	Extra spill kits located through facility for spill clean up	X		X	X			X	X	X	JS	1	1	1	1		1	1	1	1	1	1	1	
											ST	1	1	1	1		1	1	1	1	1	1	1	
											RS	2	3	3	2		3	2	1	1	2	3		
											DS	1	1	1	1		1	1	1	1	1	1	1	
											LC	1	1	2	1		1	1	1	3	1	2		
											LD	2	1	2	2		1	1	1	3	1	2		
											AVG	1.3	1.3	1.7	1.3	5.7	1.3	1.2	1.0	1.7	1.2	1.7	8.0	
Spill Kits at Streetcar	Extra spill kits located through facility for spill clean up	X			X					JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	1	1	2	1		1	1	1	1	1	1	1		
										RS	2	3	2	1		2	1	1	2	2	2			
										DS	1	1	1	1		1	1	1	1	1	1	1		
										LC	1	1	2	1		1	1	1	3	1	2			
										LD	1	1	2	1		1	1	1	1	1	2			
										AVG	1.2	1.3	1.7	1.0	5.2	1.2	1.0	1.0	1.5	1.2	1.5	7.3		
Streetcars Braking in Wet Conditions	Sand dispensed on rails				X					JS	1	1	1	1		1	1	1	1	1	1	1		
										ST	1	1	2	1		1	1	1	1	1	1	1		
										RS	2	1	2	1		1	1	1	1	1	1	1		
										DS	1	1	2	2		1	2	1	1	1	2			
										LC	2	1	2	1		1	1	1	2	1	1			
										LD	2	1	2	1		1	1	1	1	1	1	1		
										AVG	1.5	1.0	1.8	1.2	5.5	1.0	1.2	1.0	1.2	1.0	1.2	6.5		

Aspect Ranking (Total Points)
39.7
39.7
32.5
32.2
31.2
30.8
30.7

Aspect
Ranking
(Total
Points)

Aspect Ranking (Total Points)
30.2
30.0
28.8
27.8
27.8
27.2

Aspect Ranking (Total Points)
27.0

Aspect Ranking (Total Points)
27.0
26.8
26.5
26.3
26.3
26.3
26.2

Aspect
Ranking
(Total
Points)

Aspect Ranking (Total Points)
25.5
25.5
25.3
24.8
24.7
24.7

Aspect Ranking (Total Points)
24.2

Aspect Ranking (Total Points)
24.0
23.8
23.5
23.5
23.3
23.2
23.2

Aspect
Ranking
(Total
Points)

Aspect Ranking (Total Points)
22.7
22.7
22.5
22.2
22.2
22.0

Aspect Ranking (Total Points)
21.7

Aspect Ranking (Total Points)
21.7
21.7
20.8
20.3
20.2
20.0
19.2

Aspect
Ranking
(Total
Points)

Aspect Ranking (Total Points)
18.8
18.8
18.5
18.3
18.3
17.8

Aspect Ranking (Total Points)
17.8

Aspect Ranking (Total Points)
17.8
17.3
17.2
17.0
17.0
17.0

Aspect Ranking (Total Points)
17.0

Aspect Ranking (Total Points)
17.0
16.7
16.3
16.0
15.8
15.7
15.5

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Aspect
Ranking
(Total
Points)

Aspect Ranking (Total Points)
15.3
15.3
15.3
14.3
14.3
14.3

Aspect Ranking (Total Points)
14.0

Aspect Ranking (Total Points)
13.7
12.5
12.0