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Risk assessment

Jilalan Rail Yard Upgrade Project Environmental Hazard and Risk Assessment - Construction and Operation

Environmental Hazard and Risk Assessme	OOII311 <b>u</b>	Ction and	орстан	1011																									
	_ up	Capability				Health and S	Safety (Staff a	y (Staff and public)		Legislative Compliance				Environment and Heritage				inancial			Reputation	1			TOTALS				
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Item Event  1.0 Bypass and Provisioning Lines	= ĕ ĕ ≶ 6	<u> </u>		Š	æ	ర		Š	Ē	ర		S	<u>2</u>	ర		Š	<u>~</u>	ర		<u>ν</u> <u>π</u>	ర		Š	<u>2</u>	₩ Ķ Þ	2	6	Re St. M.	
1.1 Provisioning Shed																													
1.1.1 Spill of sewage while decanting from locomotive	3 1	Negligible	Rare	9	Major	Minor	Rare	25	Low	Negligible	Possible	3	Critical	Negligible	Possible			Negligible	Rare	9 Majo			7	Critical	9			Additional mgt strateo	,
1.1.2 Spill of sand while filling locomotive 1.1.3 Rupture of fuel storage	3 1	Negligible	Possible Rare	3	Critical Medium	Negligible Moderate	Possible Possible	3	Critical Medium	Negligible	Rare Likely	9 19	Major Medium	Negligible Moderate	Rare Possible			Negligible Moderate	Unlikely Likely	7 Critic 14 Mediu		Possible	9 19	Major Medium	7 17			Additional mgt_strateg	egies required egies to be considered
1.1.4 Visual impact	3 1	Moderate Negligible	Rare	20 9		Negligible	Rare	9		Minor Negligible	Unlikely	7		Negligible	Unlikely			Negligible	Unlikely	7 Critic		Possible	19	Medium	10			Additional mgt_strated	,
1.2 Rail Lines		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							.,					- J J				-55											
1.2.1 Visual impact of cuttings and masts	3 1	Negligible	Rare	9	····e-je-	Negligible	Rare	9	Major	Minor	Unlikely	23	Low	Minor				Negligible	Rare	9 Majo		Possible		Medium					egies to be considered
1.2.2 Derailment 1.2.3 Line closure due to extreme heat (weakening the rail)	3 1	Major Major	Possible Possible	9	Major Major	Major Negligible	Possible Rare	9	Major Major	Negligible Negligible	Unlikely Rare	7	Critical Major	Minor Negligible	Possible Rare		edium Major	Major Major	Possible Possible	9 Majo 9 Maio			14 14	Medium Medium	11			Additional mgt strated Additional mgt strated	J
1.2.4 Line closure due to damage from flooding	3 1	Major	Possible	9	Major	Negligible	Rare	9	Major	Negligible	Rare	9	Major	Negligible	Rare		Major		Possible	9 Majo			14	Medium	10			Additional mgt_strateg	,
1.2.5 Collision with stock	3 1	Minor	Likely	19	Medium	Negligible	Rare	9	Major	Negligible	Rare	9	Major	Negligible	Rare		-,-	- 5 5	Possible	3 Critic	3 3	Possible	3	Critical	9			Additional mgt_strateg	J
1.2.6 Environmental nuisance (noise, dust)  1.3 Road Intersections	3 1	Negligible	Rare	9	Major	Minor	Rare	25	Low	Minor	Rare	25	Low	Minor	Possible	19 Me	edium	Minor	Possible	19 Mediu	n Minor	Possible	19	Medium	19	116 N	Aedium I	Additional mgt_stratec	egies to be considered
1.3.1 Collision between road and rail traffic	3 1	Moderate	Possible	14	Medium	Major	Possible	9	Major	Minor	Unlikely	23	Low	Negligible	Rare	9 N	Major	Moderate	Possible	14 Mediu	n Minor	Possible	19	Medium	15	88 N	Nedium F	Additional mgt_strate	egies to be considered
1.3.2 Derailments	3 1	Moderate	Possible	14	Medium	Major	Possible	9	Major	Negligible	Unlikely	7	Critical	Minor	Possible	19 Me	edium	Major	Possible	9 Majo	Moderate	Possible	14	Medium	12	72	Major /	Additional mgt strateg	gies recommended
1.4 Construction	2 1	Madanta	Dihl-	14	Mariliana	Maiaa	D:bl-	0	Maiaa	More	Halliah.	22	Laur	No all allele	D	0 1	4-1	Madasta	Dibl-	14 Marilio	Minan	D:bl-	10	Marations.	15	00 4	4	A delition of south states	
1.4.1 Collision between construction and rail traffic     1.4.2 Collapse of batters in new cuttings due to heavy rainfall	3 1	Moderate Major	Possible Unlikely	14	Medium Medium	Major Minor	Possible Unlikely	23	Major Low	Minor Negligible	Unlikely Rare	9	Low Major	Negligible Minor	Rare Unlikely		Major Low	Moderate Major	Possible Unlikely	<ul><li>14 Mediu</li><li>13 Mediu</li></ul>		Possible Possible	19 19	Medium Medium	15 17				egies to be considered egies to be considered
1.4.3 Spillage of oils/lubricants	3 1	Negligible	Likely	3	Critical	Minor	Rare	25	Low	Minor	Possible	19	Medium	Minor	Possible		edium	Minor	Possible	19 Mediu			9	Major	16	94 N	Nedium P	Additional mgt_strateg	egies to be considered
1.4.4 Environmental nuisance (noise, dust)	3 1	Negligible	Rare	9	Major	Minor	Rare	25	Low	Minor	Rare	25	Low	Minor	Possible	19 Me	edium	Minor	Possible	19 Mediu	n Minor	Possible	19	Medium	19	116 N	Nedium I	Additional mgt_strate	egies to be considered
1.5 Decommissioning 1.5.1 Contaminated land and waste	3 1	Negligible	Possible	3	Critical	Minor	Unlikely	23	Low	Moderate	Possible	14	Medium	Minor	Possible	19 Me	edium	Moderate	Possible	14 Mediu	n Nealiaible	1 Inlikoly	7	Critical	13	80 N	Nedjum 1	Additional mot strate	egies to be considered
1.5.1 Contaminated and and waste  1.5.2 Environmental nuisance (noise, dust)	3 1	Negligible	Rare	9	Major	Minor	Rare	25	Low	Minor	Rare	25	Low	Minor			edium			19 Mediu			19	Medium				, ,	egies to be considered
2.0 Wagon Maintenance Lines		J J	-								-																		
Wagon Washdown     2.1.1 Overflow of stormwater treatment/containment system	2 1	Modiciel	Unlikely	7	Critical	Moglia!hl-	Dessible	2	Critical	Minor	Possible	19	Medium	Minor	Dossibl-	19 Me	edium	Minor	Possible	19 Mediu	n Nogliail I	De	0	Major	13	74	Major '	Additional mat_strated	ogioc rocommo- 4- 4
2.1.1 Overnow of stormwater treatment/containment system 2.1.2 Fire in waste coal stockpile	3 1	Negligible Minor	Rare	25	Low	Negligible Minor	Possible Possible	19		Negligible	Rare	9	Major	Negligible	Possible Rare			Moderate		20 Mediu	3 3		9	Maior	15		-,-	J	egies recommended egies to be considered
2.2 Wagon Maintenance Sheds		1111101	rtaro	20	2011	1111101	1 000,010	.,	Widala	rrogiigibio	rtaro		majo.	regugibio	rtaro	,	najo.	Moderate	rtaro	20 Modia	i i i i i i i i i i i i i i i i i i i	rtaio	,	.v.ajo.		7		taditional rings: Stratog	gres to be considered
2.2.1 Spillage of oils/lubricants	3 1	Minor	Likely	19	Medium	Minor	Rare	25	Low	Minor	Possible		Medium	Minor	Possible		edium	Minor	Possible	19 Mediu			9	Major					egies to be considered
2.2.2 Visual impact     2.2.3 Spillage from handling of hazardous materials	3 1	Negligible Minor	Rare Possible	9 19	Major Medium	Negligible Moderate	Unlikely Rare	20	Critical Medium	Negligible Minor	Unlikely Possible	7 19	Critical Medium	Negligible Minor	Unlikely Possible		critical edium	Negligible Minor	Unlikely Possible	7 Critic 19 Mediu		Possible Rare	19	Medium Maior	9 18			Additional mgt_strateo	egies recommended egies to be considered
2.3 Waste Storage	3 1	WIIIIOI	r ossible	17	Medium	Woderate	Naie	20	Mediaiii	IVIIIIOI	r ossible	17	Wedium	IVIIIIOI	L OSSIDIC	17 101	edidili	WIIIIOI	L OSSIDIC	17 Mculu	ii ivegiigibie	: Itale	7	iviajoi	10	103 //	neulum F	tuditional mgt strateç	gies to be considered
2.3.1 Spillage of hazardous waste material	3 1	Minor	Possible	19	Medium	Moderate	Rare		Medium	Minor	Possible	19	Medium	Minor	Possible		edium			19 Mediu	3 3		9	Major	18				egies to be considered
2.3.2 Fire in stored waste	3 1	Minor	Rare	25	Low	Minor	Possible	19	Medium	Minor	Rare	25	Low	Minor	Rare	25	Low	Moderate	Rare	20 Mediu	n Negligible	Rare	9	Major	21	123 N	Nedium I	Additional mgt_strateg	egies to be considered
2.4 Parts Store 2.4.1 Fire in the parts store	3 1	Moderate	Rare	20	Medium	Moderate	Unlikely	18	Medium	Minor	Unlikely	23	Low	Minor	Rare	25	Low	Major	Unlikely	13 Mediu	n Minor	Rare	25	Low	21	124 N	Nedium F	Additional mgt_strate	egies to be considered
2.5 Oil and Lubricant Storage																													9
2.5.1 Rupture of one or more storage containers	3 1	Minor	Unlikely	23	Low	Minor	Rare	25		Moderate	Possible		Medium	Moderate	Unlikely		edium				n Negligible		9	Major					egies to be considered
2.5.2 Fire within the major storage area  2.5 Non-operational facilities (control room, offices, etc)	3 1	Major	Rare	15	Medium	Moderate	Rare	20	Medium	Minor	Unlikely	23	Low	Minor	Possible	19 Me	edium	Major	Possible	9 Majo	Moderate	Possible	14	Medium	17	100 N	Aedium F	additional mgt_strate(	egies to be considered
2.5.1 Litter and other domestic or commercial type wastes	3 1	Negligible	Rare	9	Major	Negligible	Rare	9	Major	Minor	Possible	19	Medium	Negligible	Rare	9 N	Major	Minor	Unlikely	23 Low	Minor	Possible	19	Medium	15	88 A	Nedium F	Additional mgt_strater	egies to be considered
2.5.2 Environmental nuisance (air or noise, eg from air conditioners	s) 3 1	Negligible	Rare	9	Major	Minor	Rare	25	Low	Minor	Unlikely	23	Low	Minor	Unlikely	23	Low	Minor	Rare	25 Low	Minor	Possible	19	Medium	21	124 N	Nedium F	Additional mgt_strate	egies to be considered
2.6 Construction     2.6.1 Collapse of batters in new cuttings due to heavy rainfall	2 1	Maior	Unlikely	12	Medium	Minor	Unlikely	22	Low	Negligible	Rare	9	Maior	Minor	Unlikely	23	Low	Maior	Unlikely	12 Modiu	n Minor	Dossible	10	Modium	17	100 /	Andium I	Additional mat. strate	egies to be considered
2.6.2 Spills and leak of oils and lubricants relocated to new facility	3 1	Negligible	Unlikely	7		Negligible	Rare	9	Major	Minor	Possible		Medium	Minor							n Negligible		9						egies to be considered
2.6.3 Environmental nuisance (noise, dust)	3 1	Negligible	Rare	9	Major	Minor	Rare	25	Low	Minor	Rare	25	Low	Minor	Possible	19 Me	edium	Minor	Possible				19	Medium	19	116 N	Nedium F	Additional mgt_strater	egies to be considered
2.7 Decommissioning 2.7.1 Contaminated waste	3 1	Negligible	Unlikely	7	Critical	Minor	Unlikely	22	Low	Moderate	Likely	14	Medium	Moderate	Likely	14 Me	o di um	Madarata	Likely	14 Mediu	n Magligible	Doro	0	Major	14	01 4	Andium I	Additional mat strate	egies to be considered
2.7.1 Contaminated waste  2.7.2 Environmental nuisance (noise, dust)	3 1	Negligible	Rare	9	Maior	Minor	Rare	25	Low	Minor	Rare	25	Low	Minor		19 Me				19 Mediu									egies to be considered
3.0 Locomotive Maintenance lines				-																									g
3.1 Locomotive Washdown		N. P. 9.1		0		1.0	D 111	10	14 P	141	D 111	10	14 P	1.0	D 31	40 14		14:	11.19.1	00 1	N. P. 21.1	11.19.1	-	0.11. 1	1/	0/ 1		A 1 PC 1 1 1 1 1	
3.1.1 Environmental nuisance (dust, aerosols and noise) 3.1.2 Discharge of untreated washwater	3 1	Negligible Negligible	Rare Possible	3	Major Critical	Minor Minor	Possible Possible		Medium Medium	Minor Moderate	Possible Possible		Medium Medium	Minor Moderate	Possible Likely		edium edium	Minor Minor	Unlikely Likely	<ul><li>23 Low</li><li>19 Mediu</li></ul>	- J	e Unlikely Rare	25	Critical Low	16 16			, ,	egies to be considered egies to be considered
3.2 Locomotive Maintenance Shed		-33.0.0																											, ,
3.2.1 Shorting of the overhead wires due to bird nesting	3 1	Minor	Possible	19	Medium	Negligible	Rare	9	Major	Negligible	Rare	9	Major	Minor	Possible			Moderate		14 Mediu		Rare	25	Low	16				egies to be considered
3.2.2 Spillage of oil/lubricant during maintenance operations     3.2.3 Environmental nuisance (dust, aerosols and noise)	3 1 3 1	Negligible Negligible	Unlikely Rare	7	Critical Major	Minor Minor	Rare Possible	25 19	Low	Minor Minor	Unlikely Possible	23 19	Low Medium	Minor Minor	Possible Possible		edium edium	Minor Minor	Possible Unlikely	<ul><li>19 Mediu</li><li>23 Low</li></ul>	3 3		<u>9</u> 7	Major Critical	17 16			, ,	egies to be considered egies to be considered
3.3 Oil and Lubricant Storage	J I	recylligible	Maic	7	iviajui	IVIIIIUI	1 0331010	- 17	Wediam	IVIII IUI	I OSSIDIC	17	wicululli	IVIII IUI	1 USSIDIC	77 IVII	culuiil	IVIIIIVI	Jillikely	20 LUW	rvegilgible	Offlinery		Chilical	10	70 10	nounurii F	additional rilyt stratet	gres to be considered
3.3.1 Rupture of one or more storage containers	3 1	Moderate	Unlikely		Medium	Minor	Rare	25	Low	Minor	Unlikely	23	Low	Moderate		18 Me				14 Mediu	- 0		9	Major				, ,	egies to be considered
3.3.2 Fire within the major storage area 3.3.3 Spillage from diesel tank storage	3 1 3 1	Major Moderate	Rare Rare	15 20	Medium Medium	Moderate Moderate	Rare Possible		Medium Medium	Minor Minor	Unlikely Likely	23 19	Low Medium	Minor Moderate	Possible Possible		edium edium	Major Moderate	Possible Likely	9 Majo 14 Mediu		Possible Possible	14 19	Medium Medium				J	egies to be considered egies to be considered
3.3.3 Spillage from dieser lank storage  3.4 Sewage Treatment Plant	J	INDUE 1916	Raie	ZU	ivieuiuIII	wouerate	L O22IDIG	14	wediuill	IVIIIIVI	LIKEIY	17	weuldiii	iviouerate	LOSSIDIG	14 1/16	cuidIII	WIDUEIALE	LINUIY	14 IVIEUIU	II IVIII IUI	LOSSIDIG	17	wedialli	17	100 //	ncululii F	wantonal myt Strate(	Pico to ne considered
3.4.1 Discharge from poorly operating wastewater treatment system	n 3 1	Minor	Unlikely	23	Low	Minor	Possible	19		Moderate	Possible		Medium	Moderate			edium	Minor	,	19 Mediu		Rare	25	Low				, ,	egies to be considered
3.4.2 Environmental nuisance (air or noise discharge)	3 1	Negligible	Rare	9	Major	Negligible	Rare	9	Major	Minor	Possible	19	Medium	Minor	Unlikely	23	Low	Minor	Unlikely	23 Low	Negligible	Rare	9	Major	15	92 N	Nedium F	Additional mgt_strateg	egies to be considered
3.5 Pollution Treatment Plant  3.5.1 Discharge from poorly operating wastewater treatment system	n 3 1	Minor	Unlikely	23	Low	Minor	Possible	19	Medium	Moderate	Possible	14	Medium	Moderate	Likely	14 Me	edium	Minor	Likely	19 Mediu	n Minor	Rare	25	Low	19	114 N	Nedium I	Additional mot_strate	egies to be considered
3.5.2 Environmental nuisance (air or noise discharge)	3 1	Negligible	Rare	9	Major	Negligible	Rare	9	Major	Minor	Possible	19	Medium	Minor			Low	Minor		23 Low			9	Major	15				egies to be considered
3.5.3 Spillage of process chemicals during maintenance	3 1	Negligible	Unlikely	7	Critical	Minor	Possible		Medium	Minor	Possible	19	Medium	Minor	Possible		edium	Minor	Possible	19 Mediu			9	Major	15				egies to be considered
3.5.4 Fire in chemical storage shed 3.5.5 Rupture of aeration tanks	3 1	Moderate Moderate	Unlikely Rare	18 20	Medium Medium	Minor Minor	Possible Possible		Medium Medium	Minor Minor	Unlikely Unlikely	23	Low	Minor Minor	Possible Possible			Moderate Moderate	Likely Possible	<ul><li>14 Mediu</li><li>14 Mediu</li></ul>		e Rare Unlikely	9 23	Major Low					egies to be considered egies to be considered
3.6 Construction	J I	INDUCTATE	Nate	20	wicuidill	WIIIIOI	i USSIDIE	17	wiculuill	IVIII IUI	OHIINCIY	ZJ	LUW	MIIIM	1 USSIDIE	17 1010	cuidill	WIDUCIAL	เ กรรเทเด	ı ı ıvıeulu	IVIIIIUI	Officely	23	LUW	20	110 //	nounum F	admonarmy: Stratet	gres to be considered
3.6.1 Disturbance of asbestos facade	3 1	Minor	Unlikely	23	Low	Moderate	Unlikely	18	Medium		Unlikely	23	Low	Negligible	Rare		Major	Minor		23 Low	- J		9	Major					egies to be considered
3.6.2 Spills and leak of oils and lubricants relocated to new facility	3 1	Negligible	Unlikely	7	Critical	Negligible	Rare	9	Major	Minor	Possible		Medium	Minor	Possible		edium		Possible		n Negligible		9	Major				, ,	egies to be considered
3.6.3 Environmental nuisance (noise, dust)  3.7 Decommissioning	3 1	Negligible	Rare	9	Major	Minor	Rare	25	Low	Minor	Rare	25	Low	Minor	Possible	19 M	eaium	Minor	Possible	19 Mediu	n Minor	Possible	19	iviedium	19	116 <i>N</i>	neaium F	auditional mgt_stratec	egies to be considered
3.7.1 Contaminated waste	3 1	Negligible	Rare	9	Major	Minor	Unlikely	23	Low	Moderate	Likely	14	Medium	Moderate	Likely	14 Me	edium	Moderate	Likely	14 Mediu	n Negligible	Rare	9	Major	14	83 N	Nedium F	Additional mgt strate	egies to be considered
3.7.2 Environmental nuisance (noise, dust)	3 1	Negligible	Rare	9	Major	Minor	Rare	25	Low	Minor	Rare	25	Low	Minor	Possible		edium	Minor	Possible	19 Mediu		Possible		Medium					egies to be considered
3.7.3 Discharge of remaining, untreated wastewater (STP and PTP	r) 3 1	Negligible	Rare	9	Major	Minor	Possible	19	Medium	Moderate	Possible	14	Medium	Moderate	Likely	14 M	edium	Minor	Likely	19 Mediu	n Minor	Rare	25	Low	17	100 //	nedium F	aditional mgt_strate	egies to be considered



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Company   Comp	Hom. Front	formation onfidence Lev	verall likeliho verall likeliho onsequences	kelihood	core	isk Band	onsequences	ikelihood	core	isk Band	onsequences	ikelihood	core	isk Band	onsequences	ikelihood	core	isk Band	onsednences	kelihood	core	isk Band	onsednences	ikelihood	core	isk Band	verage leighted Risk and	isk Priority	verall Risk	re anagement trategies equired?
4.1 Partie 10 Minus   Longer of perposes   1		<u> </u>	50 O		Ŋ	~	Ö		Ň	~	0		Š	~	٥		Š	~	0		Š	~	٥		Ŋ	<u>~</u>	<b>A</b> > <b>B</b>	~	0	<u> </u>
11   Fallers vicinis in contract Agricultus   3   Major   Provider   7   Major   Maj																			_								_			
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## 11 Debutement consumption tempolary configuration and this search of the consistent of ## 11 Debutement consumption plant of the consistent of ## 12 Debutement consistent consistent of ## 12 Debutement consistent con		3							10	major							14	major	major		14	····eje·								
4.1 Groundward productive for consolvation scholars of control and section of control and s		IS 3			18				19								14				- ' '				23		- ''			3 3
Authors	3)	2			9				10	···aje:		. ,					10								23					
4.17. Columners on an Portugo 3 1 Moderna 1 Mo		3			9				19								14				- ' '				- '		17			J
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1.19   Working act brights		2			, 10																						- ''			
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4.1.11 Working merimendages   3   1 Minor   Possible   9 Modum   Moderal   Possible   14 Mod	y a grant grant	2					- , -	- ,									9										- ' '			J
4.112 Working has perfected by 3 1 Minor Pessible 19 Medium Molerar Pessible 19 Medium Molerar Pessible 19 Medium Molerar Pessible 19 Medium Molerar Pessible 14 Medium Negligable Rive 9 Migor Molerar Pessible 14 Medium Molerar Pessible 1	v	າ					- ','		13						J J		9				- ' '						10			<u> </u>
A 1.13 Working with exhibition of the exhibiti	9 7 7 1 1	2							12				- ' '				9	major			14				14		1.4			J
4.1.14 Working with thremeds and danagerous goods  3 1 Morrie Pessable 4.1.16 Working with thremeds and danagerous goods  3 1 Morrie Pessable 4.1.16 Morrie Pess	5	າ															9				14				14		14			J
4.11.5 Working with mock 3 1 Negligible Possible 3 Critical Moderate Possible 14 Medium Moderate Possible 14 Medium Negligible Rare 9 Major Moderate Possible Negligible Rare 9 Major Negligible Rare 9 Major Moderate Possible Negligible Rare 9 Major Moderate Possible Negligible Rare 9 Major Negligible Rare 9 Major Moderate Possible Negligible Rare 9 Major	, ,	2					- ','										9								14					<u> </u>
4.1.16 Heavy Biffing 4.1.16 New Judged 4.1.17 Snokes and dangerous fauna from canefield and rural areas. 3 1 Negligible Possible 3 Critical Moderate Possible 14 Medium Negligible Rare 9 Major Additional mgl strategies recommended 4.2.0 Cyclone 3 1 Moderate Possible 14 Medium Moderate Possible 14 Medium Negligible Rare 9 Major Ne	ÿ ÿ	2					· · · · · · · · · · · · · · · · · · ·	,							5 5		9								14					3 9
4.1.7 Snakes and dangerous fauma from canefield and rural areas. 3 1 Negligible 9 Possible 3 Critical Moderate 9 Major Negligible Rare 9 Major Negligible Wilkely 7 Critical Negligible Rare 9 Major N	J	-															9								14		11			
4.2 Operation  4.2.1 Cyclone  3 1 Moderate Likely 14 Medium Minor Possible 19 Medium Minor Moderate Minor Possible 19 Medium Minor Moderate Minor Moderate Minor Moderate Minor Moderate Minor Moderate Minor Moderate Mode		2	- 5										14				7				14				14		- 11			J
4.2.1 Cyclone 3 1 Moderate Likely 14 Medium Moderate Possible 14 Medium Moderate Possible 14 Medium Millor Possible 19 Medium Millor Possible 19 Medium Moderate Possible 14 Medium Moderate Possible	<u> </u>	J	ı ivegiiç	ible Possible	3	CITIICAI	Moderate	Possible	14	iviedium	ivegligible	Raie	9	iviajoi	ivegligible	Utilikely		CHILCAL	ivegligible	Utilikely		CHILCAI	ivegligible	Raie	9	iviajoi	- 0	49	IVIAJOI	Additional riigi. Strategies recommended
4.2.2 Fire 3 1 Minor Possible 19 Medium Minor Possible 19 Medium Minor Possible 19 Medium Moderate Possible 14 Medium Major Possible 19 Medium Major Possible 14 Medium Major Possible 14 Medium Moderate Possible		2	1 Modo	ato Likolu	1.4	Modium	Modorato	Docciblo	1/	Modium	Mogligible	Daro	0	Major	Modorato	Docciblo	1.4	Modium	Major	Likoly	0	Major	Mogligible	Dara	0	Major	12	40	Major	Additional mat stratagies recommanded
4.2.3 Flood 3 1 Moderate Likely 14 Medium Minor Possible 19 Medium Minor Possible 19 Medium Major Negligible Rare 9 Major Moderate Possible 14 Medium Negligible Rare 9 Major Moderate Possible 14 Medium Negl	,	2							10		- 3 3		9	-,-			10				14				9	- ','	12		-,-	J
4.2.4 Seismic event 3 1 Major Rare 15 Medium Minor Possible 19 Medium Minor Possible 9 Major Moderate Unlikely 18 Medium Minor Rare 25 Low Moderate Possible 14 Medium Mod		3							19		<u> </u>		9	-,-			10				14				9		15			
4.2.5 Explosion (gas or other)  3 1 Moderate Rare 20 Medium Major Possible 9 Major Moderate Unlikely 18 Medium Minor Unlikely 23 Low Negligible Rare 9 Major Moderate Possible 14 Medium Negligible Unlikely 7 Critical 16 96 Medium Additional mgt strategies to be considered 4.2.6 Sabotage of line or equipment  4.2.6 Sabotage of line or equipment  3 1 Moderate Rare 20 Medium Minor Unlikely 23 Low Minor Unlikely 23 Low Negligible Rare 9 Major Moderate Possible 14 Medium Negligible Unlikely 7 Critical 16 96 Medium Additional mgt strategies to be considered Negligible Rare 9 Major Moderate Possible 14 Medium Negligible Possible 3 Critical 10 57 Major Additional mgt strategies to be considered Negligible Rare 9 Major Moderate Possible 14 Medium Moderate Possible 14 Me		2									<u> </u>			-,-			19				9				9					3 3
4.2.6 Sabatage of line or equipment 3 1 Moderate Rare 20 Medium Minor Unlikely 23 Low Minor Unlikely 23 Low Megligible Rare 9 Major Moderate Possible 14 Medium Negligible On Negligible Possible 3 Critical 16 96 Medium Additional mgt strategies to be considered Medium Negligible Rare 9 Major Moderate Possible 14 Medium Negligible Possible 3 Critical 10 57 Major Additional mgt strategies to be considered Negligible Rare 9 Major Moderate Possible 14 Medium Moderate Possible 14	112.1	າ							19				7				75								1/					
4.2.7 Bomb or arson threat  3 1 Major Rare  15 Medium Negligible  7 Critical Negligible  8 Rare  9 Major Noderate  9 Possible  14 Medium Negligible  8 Rare  9 Major Moderate  9 Possible  14 Medium Negligible  8 Rare  9 Major Moderate  9 Possible  14 Medium Negligible  8 Rare  9 Major Moderate  9 Possible  14 Medium Moderate  15 Medium Negligible  8 Rare  9 Major Moderate  15 Medium Negligible  8 Rare  9 Major Moderate  16 Medium Negligible  8 Rare  9 Major Moderate  17 Medium Negligible  8 Rare  9 Major Moderate  18 Medium Moderate  19 Medium Moderate  19 Medium Moderate  19 Medium Moderate  19 Medium Moderate  10 S7 Major Additional mgt strategies to be considered  10 Medium Moderate  11 Medium Moderate  12 Medium Moderate  13 Medium Moderate  14 Medium Moderate  15 Medium Moderate  16 Medium Moderate  17 Medium Moderate  18 Medium Moderate  18 Medium Moderate  19 Medium Moderate  10 Medium Moderate  11 Medium Moderate  12 Medium Moderate  14 Medium Moderate  15 Medium Moderate  16 Medium Moderate  17 Medium Moderate  18 Medium Moderate  18 Medium Moderate  19 Medium Moderate  19 Medium Moderate  10 Medium Moderate  11 Medium Moderate  12 Medium Moderate  14 Medium Moderate  15 Medium Moderate  16 Medium Moderate  17 Medium Moderate  18 Medium Moderate  18 Medium Moderate  19 Medium Moderate  19 Medium Moderate  10 Medium Moderate  10 Medium Moderate  10 Medium Moderate  10 Medium Moderate  11 Medium Moderate  12 Medium Moderate  14 Medium Moderate  15 Medium Moderate  16 Medium Moderate  17 Medium M	, ,	J							22								20								7					
4.2.8 Working with electricity 3 1 Minor Possible 19 Medium Major Unlikely 13 Medium Moderate Possible 14 Medium M	3 11	ა ი						,	7				23				9						3 3		2					J
4.2.9 Working in the vicinity of heavy equipment 3 1 Minor Possible 19 Medium Major Possible 9 Major Moderate Possible 14 Medium Negligible Rare 9 Major Moderate Possible 14 Medium Moderate Possible	1211 221112 21 21211 21 21 21 21 21 21 2	2							12				1/				0								1/		10		-,-	
4.2.10 Working in confined spaces  3 1 Minor Possible 19 Medium Major Unlikely 13 Medium Moderate Possible 14 Medi	, , , , , , , , , , , , , , , , , , ,	2							13								0										19			
4.2.11 Working with chemicals and dangerous goods 3 1 Minor Possible 19 Medium Major Unlikely 13 Medium Moderate Possible 14 Medium Moderate Possible 14 Medium Moderate Possible 14 Medium Moderate Possible 14 Medium Moderate Possible 15 Medium Moderate Possible 16 Medium Moderate Possible 16 Medium Moderate Possible 17 Medium Moderate Possible 18 Medium Moderate Possible 18 Medium Moderate Possible 19 Medium Moderate P	9 7 7 1 1	ა ი					- ,-		12								9				14				14		1.4			
4.2.12 Working with tools  3 1 Negligible Possible 3 Critical Moderate Possible 14 Medium Moderate Possible 14 Med	3 3	2						•									9				14				14		14			
4.2.13 Heavy lifting  3 1 Negligible Possible 3 Critical Moderate Possible 14 Medium 11 68 Major Additional mgt strategies recommended 4.2.14 Disease from mosquitos in ponded water  3 1 Negligible Rare 9 Major Minor Rare 25 Low Minor Possible 19 Medium Minor Possible 19 Medium Minor Unlikely 23 Low Minor Possible 19 Medium 19 114 Medium Additional mgt strategies to be considered		ა ი						•									0													
4.2.14 Disease from mosquitos in ponded water 3 1 Negligible Rare 9 Major Minor Rare 25 Low Minor Possible 19 Medium Minor Unlikely 23 Low Minor Possible 19 Medium 19 114 Medium Additional mgt strategies to be considered	3	3															9	wajo												3 3
The state of the s		J															10													
	4.2.14 Disease from mosquitos in ponded water 4.2.15 Power failure due to damage from severe weather	2			9	Major	Nealiaible	Unlikely	Z0 7	Critical	Nealiaible		19	Maior	Nealiaible	Rare	0	Maior	Maior	Possible	23	Low	Minor	Unlikely	23			66		<u> </u>

- The overall risk rating is based on an assessment of the likelihood of the event actually occurring. This differs from the risk dimension likelihood which assesses the likelihood of the event impacting that risk dimension.

  The maximum risk band is 30. The overall risk band is set at 30 where the weighted calculation of the risk band is greater than 30. This gives an overall risk assessment of Low.

  The confidence level is generally 1 = low level of confidence in the information used to assess risks up to 5 = Data is agreed by experts or based on known processes.



