

**CreteMix Mixed Concrete and Aggregates
Process Risk Assessment
July 2010**

Task	Hazard	Risk	Consequence	Risk Reduction	Responsible Person	C	E	P	Risk Rating	Consequence
Enter and Exit Plants	Moving Machinery	Caught in / between / under	First Aid to Fatality	Awareness WSN/PS / Signage / Management Supervision	All Employees Plant Manager		75	6	8	Multiple Fatalities 100
	Moving Vehicles	Caught in / between / under	Minor to Fatality	Awareness Signs / Signage Good housekeeping	All Heavy Equipment All Employees		75	4	7	Major Disability 75
	Uneven Floor Surfaces	Slip, Trip or Fall	Minor to Reportable	Training	All Heavy Equipment All Employees		25	6	7	Reportable Incident 25
	Unsafe Access to Plant/Equipment	Fall and sharp objects	Minor to Reportable	Demarcation / Signage / Guarding	Plant Manager All Employees		25	6	7	More than First Aid 15
Aggregate Loading	Falling Objects	Struck by falling objects	Minor to Reportable	Demarcation / Signage / Guarding	Plant Manager All Employees		25	6	7	Minor 1
	Dust Exposure	Stone and cement dust inhalation	Minor to Reportable	Demarcation / Signage / Guarding	Plant Manager All Employees		25	3	5	Non-significant 0.1
	Failure to Wear PPE	Caught in / under, Struck by	Minor to First Aid	Appropriate PPE / Training Management / Training	All Employees All Employees		5	10	10	Continuous Bruise 10
							75	2	5	Continuous 2-Arms 6
Emptying	Moving Machinery	Caught in / between / under	First Aid to Fatality	Awareness WSN/PS / Signage / Management Supervision	All Employees Plant Manager		75	6	8	Continuous 1-Arms 4
	Moving Vehicles	Caught in / between / under	Minor to Fatality	Awareness Signs / Signage Good housekeeping	All Heavy Equipment All Employees		75	4	7	Continuous <1-Arms 3
	Uneven Floor Surfaces	Slip, Trip or Fall	Minor to Reportable	Training	All Employees Plant Manager		25	6	7	Few per Week 2
	Unsafe Access to Plant/Equipment	Fall and sharp objects	Minor to Reportable	Demarcation / Signage / Guarding	Plant Manager All Employees		25	6	7	Few per month 1
Blasting	Falling Objects	Struck by falling objects	Minor to Reportable	Demarcation / Signage / Guarding	Plant Manager All Employees		25	3	5	Rare 0.5
	Dust Exposure	Aggregate and cement dust inhalation	Minor to First Aid	Appropriate PPE / Training Training / Good housekeeping	All Employees All Employees		5	10	10	Almost certain 10
							75	6	8	Once per day 8
							25	6	7	Once per week 7
Mixing and Dump Churning	Moving Machinery	Caught in / between / under	First Aid to Fatality	Awareness WSN/PS / Signage / Management Supervision	All Employees Plant Manager		75	6	8	Once per month 5
	Moving Vehicles	Caught in / between / under	Minor to Fatality	Awareness Signs / Signage Good housekeeping	All Heavy Equipment All Employees		75	4	7	Once per 5 years 3
	Uneven Floor Surfaces	Slip, Trip or Fall	Minor to Reportable	Training	All Employees Plant Manager		25	6	7	Once per 10 years 2
	Unsafe Access to Plant/Equipment	Fall and sharp objects	Minor to Reportable	Demarcation / Signage / Guarding	Plant Manager All Employees		25	6	7	Utility 0.1
Lumpston	Falling Objects	Struck by falling objects	Minor to Reportable	Demarcation / Signage / Guarding	Plant Manager All Employees		25	3	5	
	Dust Exposure	Aggregate and cement dust inhalation	Minor to First Aid	Appropriate PPE / Training Training / Good housekeeping	All Employees All Employees		5	10	10	
							75	6	8	
							25	6	7	
When Empty	Moving Machinery	Caught in / between / under	First Aid to Fatality	Awareness WSN/PS / Signage / Management Supervision	All Employees Plant Manager		75	6	8	
	Moving Vehicles	Caught in / between / under	Minor to Fatality	Awareness Signs / Signage Good housekeeping	All Heavy Equipment All Employees		75	4	7	
	Uneven Floor Surfaces	Slip, Trip or Fall	Minor to Reportable	Training	All Employees Plant Manager		25	6	7	
	Unsafe Access to Plant/Equipment	Fall and sharp objects	Minor to Reportable	Demarcation / Signage / Guarding	Plant Manager All Employees		25	6	7	

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Process	Product	Form	Environmental Impact	Consequence	Exposure	Probability	Risk Rating	Action
Raw Material Input	Cement	Bags	None	0.1	3	8	2	Good housekeeping
	Cement	Bulk	Dust	25	2	7	2	Good housekeeping / Dust Suppression Systems
	Stone	Bulk	Dust	1	4	10	40	Good housekeeping / Dust Suppression Systems
	Sand	Bulk	Dust	1	4	10	40	Good housekeeping / Dust Suppression Systems
Storage	Cement	Bags	None	0.1	2	8	1	Good housekeeping
	Cement	Bulk	None	0.1	2	8	1	Good housekeeping
	Stone	Bulk	Groundwater	1	10	8	80	Good housekeeping
	Sand	Bulk	Groundwater	1	10	8	80	Good housekeeping
Batching	Fuel & Oils	Bulk	Groundwater	5	2	5	50	Good housekeeping
	Cement	Bags	Dust	5	2	10	60	Good housekeeping / PPE use / Training / Dust Suppression
	Cement	Bulk	Dust	1	6	10	60	Good housekeeping / PPE use / Training
	Stone	Bulk	Dust & Noise	1	6	10	60	Good housekeeping / PPE use / Training
Mixing	Sand	Bulk	Dust & Noise	1	6	10	60	Good housekeeping / PPE use / Training
	R/Mix	Bulk	Dust & Noise	1	6	10	60	Good housekeeping / PPE use / Training
Inspection	R/Mix	Bulk	None	0.1	3	8	2	Training
	R/Mix	Bulk	None	0.1	3	8	2	Training
Washing	Effluent	Bulk	Groundwater	5	3	8	2	Effluent management and disposal / WSWP / Training / PPE
	Solids	Bulk	Groundwater	1	3	8	2	Waste disposal / Training / PPE
Despatch	R/Mix	Bulk	None	0.1	3	1	0.5	Training

Workshops

Consequence	
50	Significant impact
25	Extended impact
5	Local site impact
1	Minor impact
0.1	No impact
Exposure	
10	Continuous - 8hrs/shift
6	Continuous - 4hrs/shift
4	Continuous - 2hrs/shift
3	Continuous - 1hrs/shift
2	Few times per week
1	Few times per month
0.8	Few times per year
0.5	Rare
Probability	
10	Almost certain
8	Once per day
7	Once per week
5	Once per month
3	Once per year
2	Once every 5 years
1	Once every 10 years
0.1	Unlikely