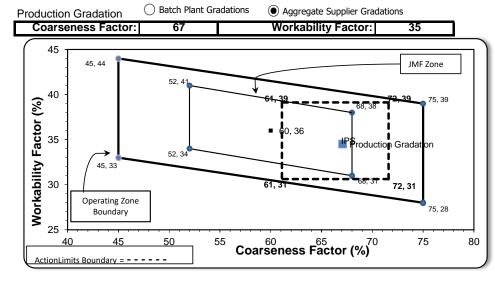
PLANT :	#:	P-101	P-101				Contractor:		
Sample Date	ample Date: 6/12/23				Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	6/13/2023	23 through 6/19				MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque Isle	800	4.89	2.62	26.1			
2NS	75-051	Mid Michigan	1200	7.23	2.66	39.1			
		Total Wt	3070	18.67		100.0	< Verify this n	umber is 100%	
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100).0	100.0	100.0	0.0	0.0	
1.5"		95.1	100).0	100.0	98.3	1.7	1.7	
1"	:	37.4	100).0	100.0	78.2	20.1	21.8	1
3/4"		7.9	98	.5	100.0	67.5	10.7	32.5	
1/2"		1.4	83	.2	100.0	61.3	6.3	38.7	
3/8"		1.1	63	.7	100.0	56.1	5.2	43.9	*1
#4		1.0	17	.3	97.0	42.8	13.3	57.2	*/
#8		1.0	4.	5	84.4	34.5	8.3	65.5	noi
#16		1.0	2.7		70.8	28.7	5.8	71.3	*0
#30		1.0	2.3		54.1	22.1	6.6	77.9	no
#50		1.0	2.1		25.0	10.7	11.4	89.3	*0
#100		0.9	1.	9	5.7	3.0	7.6	97.0	a 2
LBW		0.8	1.	7	0.7	1.0	2.0	99.0	



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Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Initial Product	ion Sample (IPS	S)	_
Coars	seness Factor:	66	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	84.3	15.3	15.7
3/4"	74.8	9.6	25.2
1/2"	64.3	10.4	35.7
3/8"	56.8	7.5	43.2
#4	43.0	13.8	57.0
#8	34.9	8.1	65.1
#16	26.4	8.5	73.6
#30	19.9	6.5	80.1
#50	10.4	9.5	89.6
#100	3.4	7.0	96.6
LBW	1.2	2.2	98.8

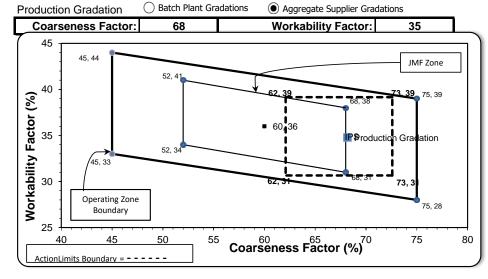
Approved By: Mart 1. Ball

PLANT :	#:	P-102					Contractor:		
Sample Date: 6/12/23				Concrete Grade:	P1M, 3500HP				
Dates Test R	es Test Represents: 6/13/202		through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5			
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	1/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	,	100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		66.0	100	0.0	100.0	85.1	14.9	14.9	
3/4"		39.3	100	0.0	100.0	73.3	11.7	26.7	
1/2"		15.2	93	.4	100.0	61.6	11.7	38.4	
3/8"		7.3	78	.7	100.0	55.5	6.1	44.5	*
#4		1.8	18	.2	99.6	42.3	13.2	57.7	*
#8		0.9	5.	7	86.8	34.8	7.5	65.2	no
#16		0.8	2.	6	69.4	27.5	7.3	72.5	*
#30	0.7		1.	9	50.0	19.9	7.6	80.1	no
#50		0.7	1.	7	24.9	10.2	9.7	89.8	*
#100		0.6	1.	6	7.0	3.2	6.9	96.8	a 2
LBW		0.6	1.	3	1.5	1.1	2.2	98.9	1



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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



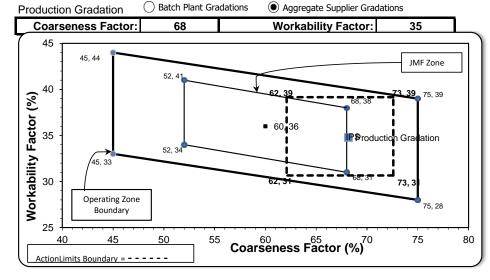
Sieve	Intial Production	on Sample (IPS	5)	_
Sieve Cumulative % Passing % Retained Cumulative % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	Coars	eness Factor:	67	
Sieve % Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	Work	ability Factor:	35	
% Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	Siovo	Cumulative	%	Cumulative
1.5" 100.0 0.0 0.0 1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	Sieve	% Passing	Retained	% Retained
1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	2"	100.0	0.0	0.0
3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	1.5"	100.0	0.0	0.0
1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	1"	85.5	14.5	14.5
3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	3/4"	73.4	12.1	26.6
#4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	1/2"	61.0	12.4	39.0
#8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	3/8"	56.2	4.8	43.8
#16 29.4 5.5 70.6 #30 21.6 7.8 78.4	#4	43.1	13.1	56.9
#30 21.6 7.8 78.4	#8	34.9	8.2	65.1
	#16	29.4	5.5	70.6
#50 8.1 13.4 91.9	#30	21.6	7.8	78.4
	#50	8.1	13.4	91.9
#100 2.2 5.9 97.8	#100	2.2	5.9	97.8
LBW 1.4 0.8 98.6	LBW	1.4	0.8	98.6

Approved By: Mart P. Ball

PLANT :	#:	P-103	03				Contractor:		
Sample Date	ample Date: 6/12/23				Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	6/13/2023	- through 6/19/202				MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	Ŭ .		% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5			
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		66.0	100	0.0	100.0	85.1	14.9	14.9	
3/4"		39.3	100	0.0	100.0	73.3	11.7	26.7	
1/2"		15.2	93	.4	100.0	61.6	11.7	38.4	
3/8"		7.3	78	.7	100.0	55.5	6.1	44.5	*
#4		1.8	18	.2	99.6	42.3	13.2	57.7	*
#8		0.9	5.	7	86.8	34.8	7.5	65.2	no
#16	0.8		2.6		69.4	27.5	7.3	72.5	*
#30		0.7	1.9		50.0	19.9	7.6	80.1	no
#50		0.7	1.7		24.9	10.2	9.7	89.8	*
#100		0.6	1.	6	7.0	3.2	6.9	96.8	a 2
LBW		0.6	1.	3	1.5	1.1	2.2	98.9	1



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Intial Product	Intial Production Sample (IPS)									
Coars	seness Factor:	67								
Worl	ability Factor:	35								
Sieve	Cumulative	%	Cumulative							
Sieve	% Passing	Retained	% Retained							
2"	100.0	0.0	0.0							
1.5"	100.0	0.0	0.0							
1"	85.5	14.5	14.5							
3/4"	73.4	12.1	26.6							
1/2"	61.0	12.4	39.0							
3/8"	56.2	4.8	43.8							
#4	43.1	13.1	56.9							
#8	34.9	8.2	65.1							
#16	29.4	5.5	70.6							
#30	21.6	7.8	78.4							
#50	8.1	13.4	91.9							
#100	2.2	5.9	97.8							
LBW	1.4	0.8	98.6							

Approved BY: May 1. Ball

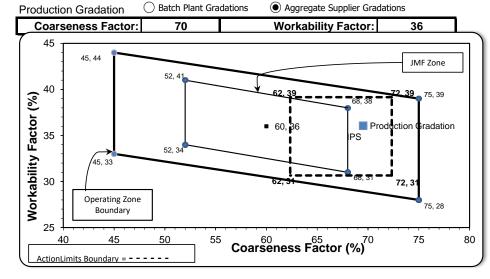
PLANT	#:	14					Contractor:		
Sample Date		6/12/23			Concrete Grade	: P1M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			\neg
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	19-04	Schlegel	1200	7.20	2.67	38.5			
		Total Wt	3120	18.64		100.0	< Verify this n	umber is 100%	Build
Sieve		CA	I/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	Finish First Wit Builders Red 30701 W. 10 N
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	Suite 500
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	Farmington Hi
1"	(6.0	10	0.0	100.0	85.1	14.9	14.9	1
3/4"		39.3	100	0.0	100.0	73.3	11.7	26.7	1
1/2"		15.2	93	3.4	100.0	61.6	11.7	38.4	
3/8"		7.3	78	5.7	100.0	55.5	6.1	44.5	*Maximum % Retained must be above
#4		1.8	18	3.2	99.9	42.4	13.1	57.6	*Any two adjacent sieves must equal
#8		0.9	5.	.7	90.1	36.1	6.4	63.9	nom. max., #100 and #200 sieves.
#16		0.8	2.	.6	69.4	27.5	8.6	72.5	*% Retained must be at least 4% for
#30		0.7	1.	.9	44.5	17.8	9.7	82.2	nom. max., #100 and #200 sieves.
#50		0.7	1.	7	14.3	6.1	11.7	93.9	*% Retained must be at least 8% for
#100		0.6	1.	6	2.7	1.6	4.5	98.4	a 2" max. size (nom. Max. 1.5") aggreg
LBW		0.6	1.	.3	0.2	0.6	1.0	99.4]



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Mile Rd. Hills, MI 48336

ove the 3/8" sieve. al 10% except max., or each sieve except max., or the 1" sieve when egate is used.



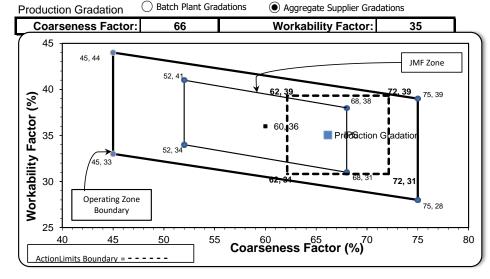
Sieve % Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	Intial Producti	on Sample (IPS	5)	-
Sieve Cumulative % Passing % Retained Cumulative % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	Coars	eness Factor:	67	
Sieve % Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	Work	ability Factor:	35	
% Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	Siovo	Cumulative	%	Cumulative
1.5" 100.0 0.0 0.0 1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	Sieve	% Passing	Retained	% Retained
1" 85.5 14.5 14.5 3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	2"	100.0	0.0	0.0
3/4" 73.4 12.1 26.6 1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	1.5"	100.0	0.0	0.0
1/2" 61.0 12.4 39.0 3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	1"	85.5	14.5	14.5
3/8" 56.2 4.8 43.8 #4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	3/4"	73.4	12.1	26.6
#4 43.1 13.1 56.9 #8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	1/2"	61.0	12.4	39.0
#8 34.9 8.2 65.1 #16 29.4 5.5 70.6 #30 21.6 7.8 78.4	3/8"	56.2	4.8	43.8
#16 29.4 5.5 70.6 #30 21.6 7.8 78.4	#4	43.1	13.1	56.9
#30 21.6 7.8 78.4	#8	34.9	8.2	65.1
	#16	29.4	5.5	70.6
#50 81 134 010	#30	21.6	7.8	78.4
#30 0.1 13.4 91.9	#50	8.1	13.4	91.9
#100 2.2 5.9 97.8	#100	2.2	5.9	97.8
LBW 1.4 0.8 98.6	LBW	1.4	0.8	98.6

Approved By: Marthe Ball

PLANT #	#:	12					Contractor:				
Sample Date	:	6/12/23			Concrete Grade:	P1M, 3500HP					
Dates Test R	es Test Represents: 6/13/2023		s Test Represents: 6/13/2023		23 through 6/19/2023				MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution					
CA	71-47	Presque Isle	1070	6.54	2.62	34.9					
IA	71-47	Presque Isle	750	4.59	2.62	24.4					
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7					
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%			
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained			
2"	100.0		100	0.0	100.0	100.0	0.0	0.0	1		
1.5"		97.1	100).0	100.0	99.0	1.0	1.0			
1"	ļ	56.0	100.0	100	0.0	100.0	84.7	14.3	15.3	1	
3/4"		18.1	98	.6	100.0	71.1	13.6	28.9	1		
1/2"		5.7	82	.1	100.0	62.8	8.4	37.2			
3/8"		3.8	61.4		100.0	57.0	5.7	43.0	1		
#4		3.2	14	.1	96.7	43.9	13.1	56.1	1		
#8		2.9	4.	5	80.9	35.0	8.9	65.0	1		
#16	2.7		3.2		65.6	28.4	6.6	71.6			
#30	2.6		2.9		49.9	21.9	6.5	78.1	1		
#50	2.5		2.	7	26.3	12.2	9.7	87.8			
#100		2.3	2.		5.0	3.4	8.8	96.6			
LBW		1.8	1.	9	0.6	1.3	2.1	98.7	1		



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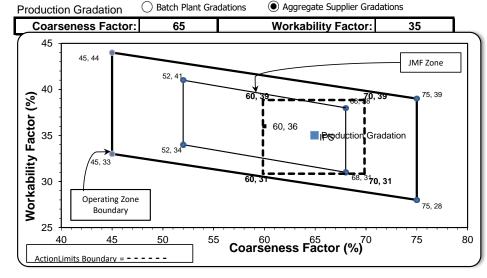
Intial Production			
Coars	eness Factor:	67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.0	9.8	26.0
1/2"	63.7	10.3	36.3
3/8"	56.4	7.3	43.6
#4	43.0	13.4	57.0
#8	35.1	7.9	64.9
#16	29.0	6.1	71.0
#30	20.9	8.0	79.1
#50	8.1	12.8	91.9
#100	1.6	6.5	98.4
LBW	0.9	0.8	99.1

Approved By: Mart 1. Ball

PLANT #	#:	20					Contractor:				
Sample Date:	:	6/12/23			Concrete Grade:	P1M, 3500HP					
Dates Test R									MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%					
vyy. Class	FIL#	Source	Weight (SSD)	п	Gravity	Contribution					
CA	71-47	Presque Isle	970	5.93	2.62	31.6					
IA	71-47	Presque Isle	900	5.50	2.62	29.3					
2NS	63-92	Grange Hall	1200	7.26	2.65	39.1					
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%			
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained			
2"	1	00.0	100).0	100.0	100.0	0.0	0.0	1		
1.5"	1	97.2	100	0.0	100.0	99.1	0.9	0.9			
1"	2	23.8	100.0	100	10	0.0	100.0	75.9	23.2	24.1	1
3/4"		1.2	99	.4	100.0	68.6	7.3	31.4	1		
1/2"		0.9	84	.5	100.0	64.1	4.5	35.9	1		
3/8"		0.9	62	.9	100.0	57.8	6.3	42.2	*N		
#4		0.9	12	.5	98.0	42.3	15.6	57.7	*/		
#8		0.9	3.	7	86.1	35.0	7.2	65.0	nor		
#16		0.9	2.	5	69.9	28.3	6.7	71.7	*9		
#30	0.9		2.	3	45.8	18.9	9.5	81.1	nor		
#50	0.8		2.	2	18.3	8.1	10.8	91.9	*9		
#100		0.8	2.		3.5	2.3	5.8	97.7	a 2		
LBW		0.7	1.	8	0.6	1.0	1.3	99.0	1		



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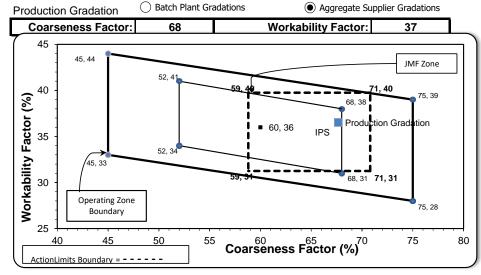
Intial Production	on Sample (IPS	5)	
Coars	eness Factor:	65	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.1	0.9	0.9
1"	80.8	18.2	19.2
3/4"	71.3	9.6	28.7
1/2"	64.0	7.3	36.0
3/8"	57.7	6.2	42.3
#4	42.8	15.0	57.2
#8	34.8	7.9	65.2
#16	28.4	6.4	71.6
#30	20.2	8.2	79.8
#50	7.6	12.6	92.4
#100	1.6	6.0	98.4
LBW	1.0	0.6	99.0

Approved By: Mart 1. Ball

PLANT #	#:	P11					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque Isle	750	4.59	2.62	24.4			
2NS	95-013	Smelter Bay	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	_
Sieve		CA	IA	A .	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100).0	100.0	100.0	0.0	0.0	1
1.5"	1	97.1	100).0	100.0	99.0	1.0	1.0	1
1"		56.0	100).0	100.0	84.7	14.3	15.3	1
3/4"		18.1	98	.6	100.0	71.1	13.6	28.9	1
1/2"		5.7	82	.1	100.0	62.8	8.4	37.2	
3/8"		3.8	61	.4	100.0	57.0	5.7	43.0	*N
#4		3.2	14	.1	96.4	43.8	13.2	56.2	*A
#8		2.9 4		5	84.5	36.5	7.3	63.5	nor
#16		2.7 3.2		2	69.1	29.9	6.7	70.1	*%
#30		2.6	.6 2.9		48.8	21.5	8.4	78.5	nor
#50		2.5	2.	7	23.0	10.9	10.6	89.1	*%
#100		2.3	2.		6.5	4.0	6.9	96.0	a 2"
LBW		1.8	1.	9	1.0	1.5	2.5	98.5	1



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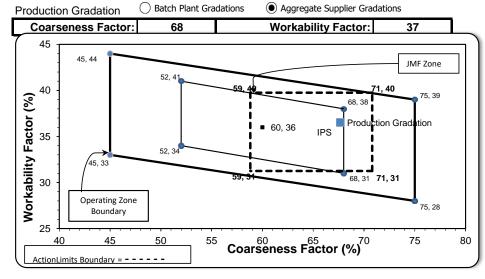
Intial Production Sample (IPS)								
Coars	eness Factor:	65						
Work	ability Factor:	36						
Sieve	Cumulative	%	Cumulative					
Sieve	% Passing	Retained	% Retained					
2"	100.0	0.0	0.0					
1.5"	99.0	0.6	0.6					
1"	84.0	15.3	16.0					
3/4"	73.5	10.5	26.5					
1/2"	65.2	8.2	34.8					
3/8"	58.2	7.1	41.8					
#4	44.1	14.1	55.9					
#8	35.5	8.6	64.5					
#16	29.1	6.4	70.9					
#30	21.9	7.3	78.1					
#50	9.6	12.2	90.4					
#100	2.6	7.1	97.4					
LBW	1.0	1.6	99.0					

Approved By: Mary P. Ball

PLANT #: P-32						Contractor:			
Sample Date	:	6/12/23			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque Isle	750	4.59	2.62	24.4			
2NS	95-013	Smelter Bay	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	_
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"		97.1	100	0.0	100.0	99.0	1.0	1.0	
1"	56. 18.	56.0	100	0.0	100.0	84.7	14.3	15.3	
3/4"		8.1	98	.6	100.0	71.1	13.6	28.9	1
1/2"		5.7	82	.1	100.0	62.8	8.4	37.2	
3/8"		3.8	61	.4	100.0	57.0	5.7	43.0	,
#4		3.2	14	.1	96.4	43.8	13.2	56.2	
#8		2.9	4.	5	84.5	36.5	7.3	63.5	n
#16		2.7	3.	2	69.1	29.9	6.7	70.1	1
#30		2.6	2.	9	48.8	21.5	8.4	78.5	no
#50		2.5	2.	7	23.0	10.9	10.6	89.1	*
#100		2.3	2.		6.5	4.0	6.9	96.0	а
LBW		1.8	1.	9	1.0	1.5	2.5	98.5	



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Intial Producti	Intial Production Sample (IPS)								
Coars	eness Factor:	65							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	99.0	0.6	0.6						
1"	84.0	15.3	16.0						
3/4"	73.5	10.5	26.5						
1/2"	65.2	8.2	34.8						
3/8"	58.2	7.1	41.8						
#4	44.1	14.1	55.9						
#8	35.5	8.6	64.5						
#16	29.1	6.4	70.9						
#30	21.9	7.3	78.1						
#50	9.6	12.2	90.4						
#100	2.6	7.1	97.4						
LBW	LBW 1.0		99.0						

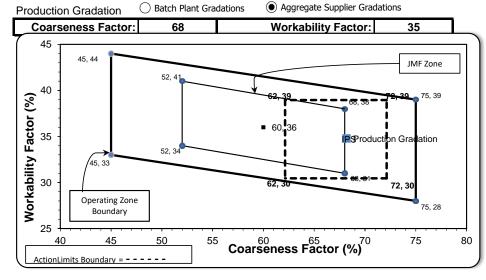
Approved By: Mart 1. Ball

PLANT :	#:	P-35					Contractor:						
Sample Date	:	6/12/23			Concrete Grade:	P1M, 3500HP							
Dates Test Represents:		6/13/2023	through	6/19/2023			MDOT No.:						
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution							
CA	58-003	Stoneco	1370	8.16	2.69	43.9							
IA	58-003	Stoneco	550	3.28	2.69	17.6							
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5							
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%					
Sieve		CA	1/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained					
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	1				
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0					
1"		66.0	100	0.0	100.0	85.1	14.9	14.9					
3/4"		39.3	100	100	100	100	100	0.0	100.0	73.3	11.7	26.7	1
1/2"		15.2	93	.4	100.0	61.6	11.7	38.4					
3/8"		7.3	78	.7	100.0	55.5	6.1	44.5	*				
#4		1.8	18	.2	99.6	42.3	13.2	57.7	*,				
#8		0.9	5.	7	86.8	34.8	7.5	65.2	no				
#16		0.8	2.	6	69.4	27.5	7.3	72.5	*(
#30		0.7	1.	9	50.0	19.9	7.6	80.1	no				
#50		0.7	1.	7	24.9	10.2	9.7	89.8	*0				
#100		0.6	1.		7.0	3.2	6.9	96.8	a 2				
LBW		0.6	1.	3	1.5	1.1	2.2	98.9					



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Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Producti	on Sample (IPS	5)	_
Coars	eness Factor:	67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	86.9	13.1	13.1
3/4"	76.1	10.8	23.9
1/2"	63.7	12.4	36.3
3/8"	56.2	7.5	43.8
#4	43.2	13.0	56.8
#8	34.7	8.5	65.3
#16	27.5	7.2	72.5
#30	20.6	7.0	79.4
#50	9.0	11.6	91.0
#100	2.1	6.9	97.9
LBW	1.0	1.1	99.0

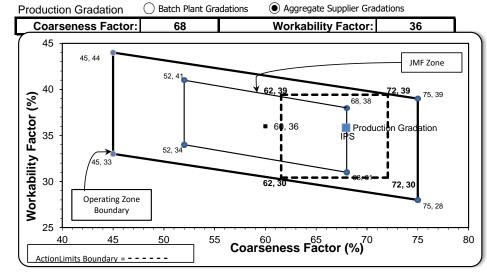
Approved By: Mart 1. Ball

PLANT #	#:	P-36					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque Isle	800	4.89	2.62	26.1			
2NS	63-92	Grange Hall	1200	7.26	2.65	39.1			
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	I/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		97.1	100	0.0	100.0	99.0	1.0	1.0	
1"		56.0	100	0.0	100.0	84.7	14.3	15.3	
3/4"		18.1	98	8.6 100.0	100.0	71.1	13.6	28.9	
1/2"		5.7	82	.1	100.0	62.5	8.6	37.5	
3/8"		3.8	61	.4	100.0	56.4	6.1	43.6	*M
#4		3.2	14	.1	98.0	43.1	13.3	56.9	*A
#8		2.9	4.5		86.1	35.8	7.3	64.2	nom
#16		2.7	3.	2	69.9	29.1	6.7	70.9	*%
#30		2.6	2.	2.9	45.8	19.6	9.5	80.4	nom
#50		2.5	2.	7	18.3	8.7	10.8	91.3	*%
#100		2.3	2.	4	3.5	2.8	5.9	97.2	a 2"
LBW		1.8	1.	9	0.6	1.4	1.4	98.6	1



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Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)									
Coars	eness Factor:	67							
Work	ability Factor:	35							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	85.0	15.0	15.0						
3/4"	72.1	12.9	27.9						
1/2"	64.5	7.6	35.5						
3/8"	56.5	8.0	43.5						
#4	42.7	13.8	57.3						
#8	34.9	7.8	65.1						
#16	29.0	5.9	71.0						
#30	21.0	8.0	79.0						
#50	8.2	12.8	91.8						
#100	1.6	6.5	98.4						
LBW	0.7	0.9	99.3						

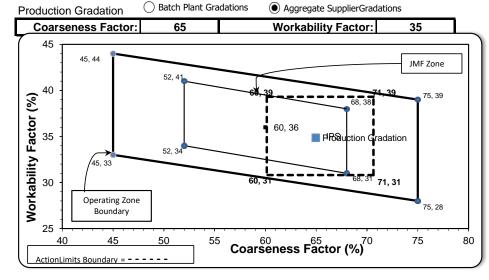
Approved By: Nat 1. Ball

PLANT #	#:	P-39					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1020	6.24	2.62	33.2			
IA	71-47	Presque Isle	800	4.89	2.62	26.1			
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	
Sieve		CA	14	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"		95.1	100	0.0	100.0	98.4	1.6	1.6	
1"		37.4	100	0.0	100.0	79.2	19.2	20.8	
3/4"		7.9	98	98.5	100.0	69.0	10.2	31.0	
1/2"		1.4	83	3.2	100.0	62.9	6.1	37.1]
3/8"		1.1	63	5.7	100.0	57.7	5.2	42.3	*N
#4		1.0	17	.3	95.7	43.8	13.9	56.2	*A
#8		1.0	4.	.5	81.9	34.9	9.0	65.1	nor
#16		1.0	2.	.7	66.9	28.3	6.6	71.7	*9
#30		1.0	2.	.3	50.2	21.4	6.9	78.6	nor
#50		1.0	2.	.1	25.0	11.1	10.3	88.9	*9
#100		0.9	1.	.9	7.5	3.8	7.2	96.2	a 2
LBW		0.8	1.	7	1.3	1.2	2.6	98.8	



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Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



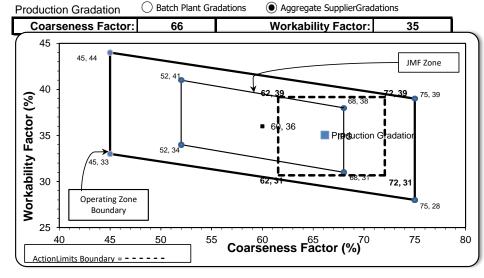
Coarse	eness Factor:		
	mess racior.	65	
Worka	bility Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.1	9.8	25.9
1/2"	64.3	9.7	35.7
3/8"	57.5	6.8	42.5
#4	44.5	13.1	55.5
#8	35.1	9.4	64.9
#16	27.9	7.2	72.1
#30	21.7	6.2	78.3
#50	12.6	9.1	87.4
#100	3.5	9.1	96.5
LBW	1.2	2.4	98.8



PLANT :	#:	P-O2					Contractor:		
Sample Date):	6/12/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque Isle	750	4.59	2.62	24.4			
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	
Sieve		CA	I/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	97.1	10	0.0	100.0	99.0	1.0	1.0	
1"		56.0	10	0.0	100.0	84.7	14.3	15.3	
3/4"		18.1	98	8.6	100.0	71.1	13.6	28.9	
1/2"		5.7	82	2.1	100.0	62.8	8.4	37.2	
3/8"		3.8	61	.4	100.0	57.0	5.7	43.0	*
#4		3.2	14	l.1	96.7	43.9	13.1	56.1	*
#8		2.9	4.	.5	80.9	35.0	8.9	65.0	no
#16		2.7		.2	65.6	28.4	6.6	71.6	*
#30		2.6	2.	.9	49.9	21.9	6.5	78.1	no
#50		2.5	2.	.7	26.3	12.2	9.7	87.8	*
#100		2.3	2.		5.0	3.4	8.8	96.6	a 2
LBW		1.8	1.	.9	0.6	1.3	2.1	98.7	1



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Intial Production Sample (IPS)								
Coars	eness Factor:	67						
Work	ability Factor:	35						
Sieve	Cumulative	%	Cumulative					
Sieve	% Passing	Retained	% Retained					
2"	100.0	0.0	0.0					
1.5"	100.0	0.0	0.0					
1"	85.0	15.0	15.0					
3/4"	72.3	12.7	27.7					
1/2"	64.5	7.8	35.5					
3/8"	56.5	8.0	43.5					
#4	42.7	13.8	57.3					
#8	34.9	7.8	65.1					
#16	29.0	5.9	71.0					
#30	21.0	8.0	79.0					
#50	8.2	12.8	91.8					
#100	1.6	6.5	98.4					
LBW	0.7	0.9	99.3					

Approved By: Mart 1. Ball