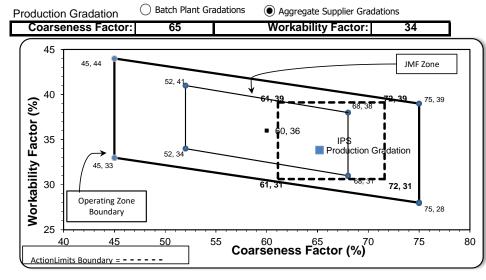
PLANT :	#:	P-101					Contractor:			
Sample Date):	9/4/23			Concrete Grade:	P1M, 3500HP				
Dates Test Represents:		9/5/2023	through	9/11/2023			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution				
CA	71-47	Presque Isle	1070	6.54	2.62	34.9				
IA	71-47	Presque Isle	800	4.89	2.62	26.1				
2NS	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	1/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0		
1.5"		94.8	100	0.0	100.0	98.2	1.8	1.8		
1"	:	34.4	100	0.0	100.0	77.1	21.1	22.9		
3/4"		10.8	98	.5	100.0	68.5	8.6	31.5		
1/2"		3.9	83	83	.2	100.0	62.1	6.4	37.9	
3/8"		3.4	63	.7	100.0	56.9	5.3	43.1	*N	
#4		3.0	17	.3	95.9	43.0	13.8	57.0	*A	
#8		2.8	4.	5	81.1	33.8	9.2	66.2	nor	
#16		2.7	2.	7	67.1	27.9	6.0	72.1	*9	
#30		2.6	2.	3	53.1	22.3	5.6	77.7	nor	
#50		2.5	2.	1	26.7	11.9	10.4	88.1	*9	
#100		2.2	1.	9	6.2	3.7	8.2	96.3	a 2	
LBW		1.8	1.	7	1.0	1.5	2.2	98.5	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.



Coarseness Factor: 66 Workability Factor: 35 Sieve Cumulative % Passing % Cumulative % 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 #100 3.4 7.0 96.8	Initial Product	Initial Production Sample (IPS)								
Sieve Cumulative % Passing % Retained Cumulative % 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	Coars	eness Factor:	66							
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	Work	ability Factor:	35							
% 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	Sieve	Cumulative	%	Cumulative						
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	Sleve	% Passing	Retained	% Retained						
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	2"	100.0	0.0	0.0						
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	1.5"	99.6	0.4	0.4						
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	1"	84.3	15.3	15.7						
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	3/4"	74.8	9.6	25.2						
#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	1/2"	64.3	10.4	35.7						
#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	3/8"	56.8	7.5	43.2						
#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	#4	43.0	13.8	57.0						
#30 19.9 6.5 80.1 #50 10.4 9.5 89.6 #100 3.4 7.0 96.6	#8	34.9	8.1	65.1						
#50 10.4 9.5 89.6 #100 3.4 7.0 96.6	#16	26.4	8.5	73.6						
#100 3.4 7.0 96.6	#30	19.9	6.5	80.1						
	#50	10.4	9.5	89.6						
IBW 12 22 98.8	#100	3.4	7.0	96.6						
	LBW	1.2	2.2	98.8						

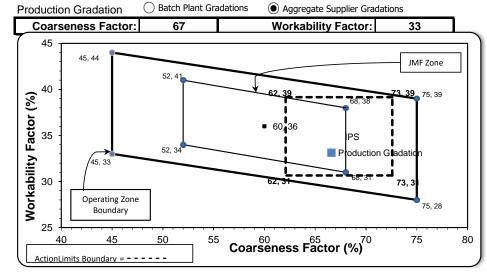
Approved By: Mart 1. Ball

PLANT :	#:	P-102					Contractor:		
Sample Date	e:	9/4/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	Represents:	9/5/2023	through	9/11/2023			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	I/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	10	0.0	100.0	100.0	0.0	0.0	1
1.5"		100.0	10	0.0	100.0	100.0	0.0	0.0	
1"		68.0	10	0.0	100.0	85.9	14.1	14.1	
3/4"		37.8	100	0.0	100.0	72.7	13.3	27.3	1
1/2"		16.1	86	5.5	100.0	60.8	11.9	39.2	1
3/8"		7.8	77	.0	100.0	55.5	5.3	44.5	*1
#4		2.3	21	.1	97.9	42.4	13.1	57.6	*/
#8		2.0	1.	.8	83.0	33.1	9.3	66.9	no
#16		1.9	1.	.0	66.4	26.5	6.6	73.5	*0
#30		1.8	0.	.7	47.2	19.1	7.5	80.9	no
#50		1.7	0.	.6	23.2	9.8	9.3	90.2	*(
#100		1.6	0.	.6	4.4	2.5	7.3	97.5	a 2
LBW		1.3	0.	.4	0.4	0.8	1.7	99.2	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 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"	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

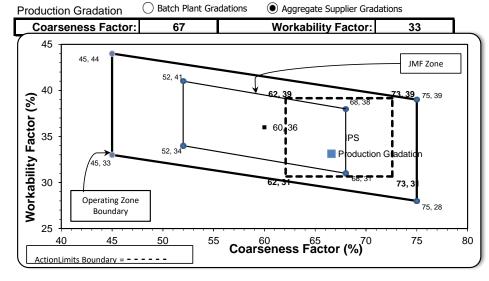
Approved By: Mart P. Ball

PLANT :	#:	P-103					Contractor:		
Sample Date	e:	9/4/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	Represents:	9/5/2023	through	9/11/2023			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	I/	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
1"		68.0	10	0.0	100.0	85.9	14.1	14.1	1
3/4"		37.8	10	0.0	100.0	72.7	13.3	27.3	
1/2"		16.1	86	6.5	100.0	60.8	11.9	39.2	
3/8"		7.8	77	.0	100.0	55.5	5.3	44.5	*
#4		2.3	21	.1	97.9	42.4	13.1	57.6	*,
#8		2.0	1.	.8	83.0	33.1	9.3	66.9	no
#16		1.9	1.	.0	66.4	26.5	6.6	73.5	*(
#30		1.8	0.	.7	47.2	19.1	7.5	80.9	no
#50		1.7	0.	6	23.2	9.8	9.3	90.2	*(
#100		1.6	0.	.6	4.4	2.5	7.3	97.5	a 2
LBW		1.3	0.	4	0.4	0.8	1.7	99.2	1



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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when 12" 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"	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

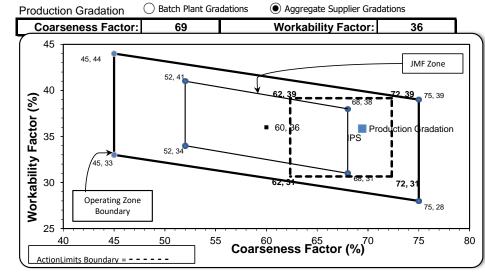
PLANT :	#:	14					Contractor:		
Sample Date		9/4/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	-	9/5/2023	through	9/11/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			\Box
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	19-04	Schlegel	1200	7.20	2.67	38.5			
		Total Wt	3120	18.64		100.0	< Verify this n	umber is 100%	REDI Finish First
Sieve		CA	1/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	Builders Re 30701 W. 10
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 H
1"	6	68.0	100	0.0	100.0	85.9	14.1	14.1	
3/4"	3	37.8	100	0.0	100.0	72.7	13.3	27.3	
1/2"		16.1	86	.5	100.0	60.8	11.9	39.2	
3/8"		7.8	77	.0	100.0	55.5	5.3	44.5	*Maximum % Retained must be abo
#4		2.3	21	.1	99.9	43.2	12.3	56.8	*Any two adjacent sieves must equa
#8		2.0	1.	8	90.1	35.8	7.3	64.2	nom. max., #100 and #200 sieves.
#16		1.9	1.	0	69.4	27.7	8.1	72.3	*% Retained must be at least 4% for
#30		1.8	0.	7	44.5	18.0	9.7	82.0	nom. max., #100 and #200 sieves.
#50		1.7	0.	6	14.3	6.4	11.7	93.6	*% Retained must be at least 8% for
#100		1.6	0.		2.7	1.8	4.5	98.2	a 2" max. size (nom. Max. 1.5") aggr
LBW		1.3	0.	4	0.2	0.7	1.1	99.3	



edi-Mix

0 Mile Rd. Hills, MI 48336

bove the 3/8" sieve. ual 10% except max., for each sieve except max., for the 1" sieve when gregate is used.



Intial Production Sample (IPS)								
Coars	seness Factor:	67						
Worl	cability 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					

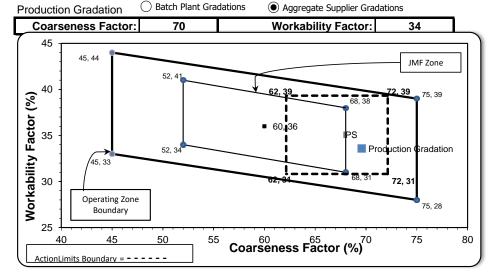
Approved By: Mary 1. Ball

PLANT #	#:	12					Contractor:		
Sample Date	:	9/4/23			Concrete Grade	P1M, 3500HP			
Dates Test Represents:		9/5/2023	through	9/11/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	870	5.32	2.62	28.3			
IA	71-47	Presque Isle	1000	6.12	2.62	32.6			
2NS	63-115	Ray Rd	1200	7.26	2.65	39.1			
		Total Wt	3070	18.70		100.0	< Verify this nu	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"	1	86.5	100).0	100.0	96.2	3.8	3.8	
1"	:	21.8	100).0	100.0	77.8	18.3	22.2	
3/4"		5.3	98	.0	100.0	72.5	5.3	27.5	1
1/2"		1.8	69	.0	100.0	62.1	10.4	37.9	
3/8"		1.8	43	.6	100.0	53.8	8.3	46.2	*N
#4		1.8	5.	6	96.5	40.1	13.7	59.9	*A
#8		1.7	2.	3	82.8	33.6	6.5	66.4	nor
#16		1.6	1.	8	68.0	27.6	6.0	72.4	*%
#30		1.5	1.	6	50.8	20.8	6.8	79.2	nor
#50		1.4	1.	6	25.7	11.0	9.8	89.0	*%
#100		1.3	1.		5.3	2.9	8.1	97.1	a 2'
LBW		0.8	1.	1	0.6	0.8	2.1	99.2	



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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	ntial 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"	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						

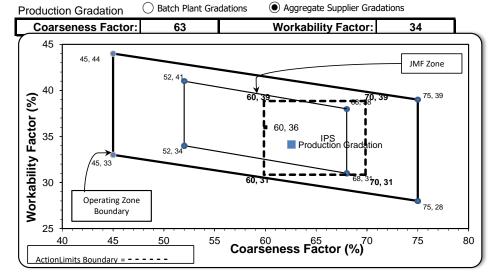
Approved By: Mart 1. Ball

PLANT #	#:	20					Contractor:		
Sample Date	:	9/4/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	9/5/2023	through	9/11/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific 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	100.0	100).0	100.0	100.0	0.0	0.0	
1.5"		98.1	100).0	100.0	99.4	0.6	0.6	1
1"		43.6	100).0	100.0	82.2	17.2	17.8	1
3/4"		12.5	98	.3	100.0	71.9	10.3	28.1	
1/2"		3.2	81	.7	100.0	64.1	7.8	35.9	
3/8"		2.5	64	.5	100.0	58.8	5.3	41.2	*
#4		1.9	14	.2	97.1	42.7	16.1	57.3	*,
#8		1.8	3.	4	83.3	34.1	8.6	65.9	no
#16		1.7	2.2		69.2	28.2	5.9	71.8	*(
#30		1.7	2.	0	50.3	20.8	7.4	79.2	no
#50		1.6	1.	8	20.0	8.9	11.9	91.1	*(
#100		1.5	1.		2.8	2.1	6.8	97.9	a 2
LBW		1.3	1.	5	0.3	1.0	1.1	99.0	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.



Coarseness Factor: 65 Workability Factor: 35 Sieve Cumulative % Passing % Cumula % 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	
Sieve Cumulative % Passing % Retained Cumulative % 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	
Sieve % Passing Retained % Retai 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	
% 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	tive
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	ned
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	
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	
1/2" 64.0 7.3 36.0 3/8" 57.7 6.2 42.3 #4 42.8 15.0 57.2	
3/8" 57.7 6.2 42.3 #4 42.8 15.0 57.2	
#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	

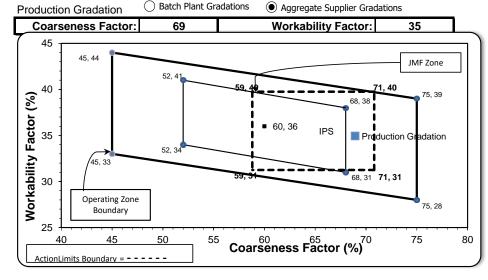
Approved By: Mart P. Ball

PLANT :	#:	P11					Contractor:		
Sample Date):	9/4/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	9/5/2023	through	9/11/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	770	4.71	2.62	25.1			
IA	71-47	Presque Isle	1100	6.73	2.62	35.8			
2NS	95-013	Smelter Bay	1200	7.26	2.65	39.1			
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	LI I	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	1
1.5"		86.5	10	0.0	100.0	96.6	3.4	3.4	1
1"	:	21.8	10	0.0	100.0	80.4	16.2	19.6	
3/4"		5.3	98	3.0	100.0	75.5	4.9	24.5	1
1/2"		1.8	69	9.0	100.0	64.3	11.3	35.7	
3/8"		1.8	43	3.6	100.0	55.2	9.1	44.8	*
#4		1.8	5	.6	96.9	40.3	14.8	59.7	*/
#8		1.7	2	.3	86.2	34.9	5.4	65.1	no
#16		1.6	1.	.8	71.4	29.0	6.0	71.0	*(
#30		1.5	1.	.6	51.2	21.0	8.0	79.0	no
#50		1.4	1.	.6	24.3	10.4	10.5	89.6	*0
#100		1.3		.4	7.5	3.8	6.7	96.2	a 2
LBW		0.8	1.	.1	1.5	1.2	2.6	98.8	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 Producti	on Sample (IPS	5)	•
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

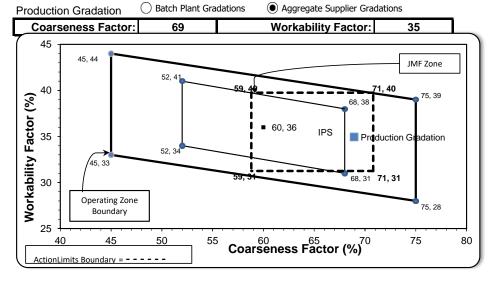
Approved By: Mart P. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	9/4/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	9/5/2023	through	9/11/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	770	4.71	2.62	25.1			
IA	71-47	Presque Isle	1100	6.73	2.62	35.8			
2NS	95-013	Smelter Bay	1200	7.26	2.65	39.1			
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	IJ	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		86.5	100	0.0	100.0	96.6	3.4	3.4	
1"	:	21.8	10	0.0	100.0	80.4	16.2	19.6	
3/4"		5.3	98	3.0	100.0	75.5	4.9	24.5	1
1/2"		1.8	69	9.0	100.0	64.3	11.3	35.7	
3/8"		1.8	43	8.6	100.0	55.2	9.1	44.8	,
#4		1.8	5.	.6	96.9	40.3	14.8	59.7	*
#8		1.7	2.	.3	86.2	34.9	5.4	65.1	no
#16		1.6	1.	.8	71.4	29.0	6.0	71.0	4
#30		1.5	1.	.6	51.2	21.0	8.0	79.0	no
#50		1.4	1.	.6	24.3	10.4	10.5	89.6	4
#100		1.3	1.	.4	7.5	3.8	6.7	96.2	а
LBW		0.8	1.	.1	1.5	1.2	2.6	98.8	1



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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when 12" max. size (nom. Max. 1.5") aggregate is used.



Intial Product	ion Sample (IPS	5)	-
Coars	seness Factor:	65	
Worl	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sleve	% 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

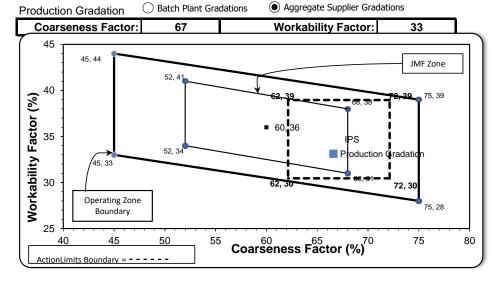
Approved By: Mart P. Ball

PLANT #	#:	P-35					Contractor:																			
Sample Date	:	9/4/23			Concrete Grade:	P1M, 3500HP																				
Dates Test R	epresents:	9/5/2023	through	9/11/2023			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	14	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained																		
2"		100.0	100	0.0	100.0	100.0	0.0	0.0																		
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0																		
1"		68.0	100	0.0	100.0	85.9	14.1	14.1																		
3/4"		37.8	100	0.0	100.0	72.7	13.3	27.3	1																	
1/2"		16.1	86	86	86	86	86	86	86	86	86	86	86	86	86	86			86	86	.5	100.0	60.8	11.9	39.2	
3/8"		7.8	77	.0	100.0	55.5	5.3	44.5																		
#4		2.3	21	.1	97.9	42.4	13.1	57.6																		
#8		2.0	1.	8	83.0	33.1	9.3	66.9	n																	
#16		1.9 1.0 66	1.9 1.0 66.4	26.5	6.6	73.5																				
#30		1.8	0.	7	47.2	19.1	7.5	80.9	n																	
#50		1.7	0.	6	23.2	9.8	9.3	90.2																		
#100		1.6	0.	6	4.4	2.5	7.3	97.5	а																	
LBW		1.3	0.	4	0.4	0.8	1.7	99.2	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 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

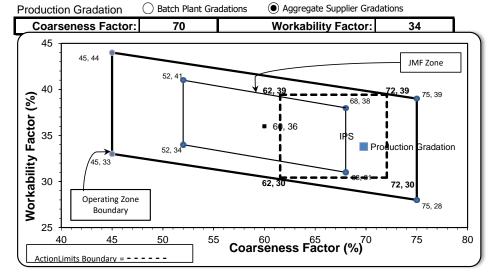
Approved By: Mart 1. Ball

PLANT #	#:	P-36					Contractor:		
Sample Date:	:	9/4/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	9/5/2023	through	9/11/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	870	5.32	2.62	28.3			
IA	71-47	Presque Isle	1000	6.12	2.62	32.6			
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	0.0	100.0	100.0	0.0	0.0	
1.5"	i	86.5	100	0.0	100.0	96.2	3.8	3.8	
1"	:	21.8	100	0.0	100.0	77.8	18.3	22.2	
3/4"		5.3	98	.0	100.0	72.5	5.3	27.5	1
1/2"		1.8	69	.0	100.0	62.1	10.4	37.9	
3/8"		1.8	43	.6	100.0	53.8	8.3	46.2	
#4		1.8	5.	6	97.1	40.3	13.5	59.7	
#8		1.7	2.	3	83.3	33.8	6.5	66.2	no
#16		1.6	1.	8	69.2	28.1	5.7	71.9	
#30		1.5	1.	6	50.3	20.6	7.5	79.4	n
#50		1.4	1.	6	20.0	8.7	11.9	91.3	4
#100		1.3	1.		2.8	1.9	6.8	98.1	a
LBW		0.8	1.	1	0.3	0.7	1.2	99.3	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.



	ness Factor:	67	
Works		07	
VV01Kd	bility 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

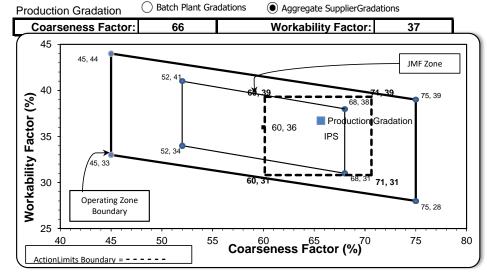
Approved By: Nat 1. Ball

PLANT #	#:	P-39					Contractor:		
Sample Date):	9/4/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	9/5/2023	through	9/11/2023			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	I/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"		94.8	100	0.0	100.0	98.3	1.7	1.7	
1"		34.4	100	0.0	100.0	78.2	20.1	21.8	
3/4"		10.8	98	5.5	100.0	70.0	8.2	30.0	1
1/2"		3.9	83	5.2	100.0	63.7	6.3	36.3	
3/8"		3.4	63	5.7	100.0	58.4	5.2	41.6	1
#4		3.0	17	.3	99.0	45.8	12.6	54.2	1
#8		2.8	4.	.5	85.0	36.7	9.1	63.3	no
#16		2.7	2.	.7	67.9	29.2	7.5	70.8	
#30		2.6	2.	.3	50.6	22.1	7.2	77.9	n
#50		2.5	2.	1	23.1	10.8	11.3	89.2	1
#100		2.2	1.	.9	5.8	3.6	7.2	96.4	а
LBW		1.8	1.	7	1.0	1.4	2.1	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	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"	99.6	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

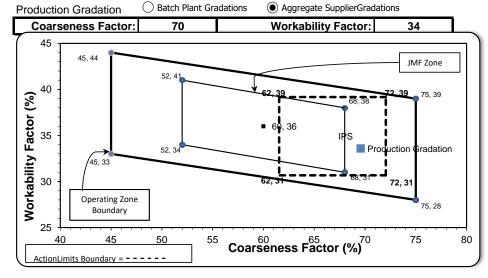
Approved By: Mart 1. Ball

PLANT #	#:	P-O2					Contractor:		
Sample Date	:	9/4/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	9/5/2023	through	9/11/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	870	5.32	2.62	28.3			
IA	71-47	Presque Isle	1000	6.12	2.62	32.6			
2NS	63-115	Ray Rd	1200	7.26	2.65	39.1			
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	I/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1.5"	i	86.5	100	0.0	100.0	96.2	3.8	3.8	
1"	:	21.8	10	0.0	100.0	77.8	18.3	22.2	
3/4"		5.3	98	5.0	100.0	72.5	5.3	27.5	1
1/2"		1.8	69	.0 100.0	100.0	62.1	10.4	37.9	
3/8"		1.8	43	5.6	100.0	53.8	8.3	46.2	1
#4		1.8	5.	.6	96.5	40.1	13.7	59.9	1
#8		1.7	2.	.3	82.8	33.6	6.5	66.4	r
#16		1.6	1.	.8	68.0	27.6	6.0	72.4	
#30		1.5	1.	.6	50.8	20.8	6.8	79.2	r
#50		1.4	1.	6	25.7	11.0	9.8	89.0	
#100		1.3	1.	4	5.3	2.9	8.1	97.1	
LBW		0.8	1.	1	0.6	0.8	2.1	99.2	



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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when a 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"	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 P. Ball