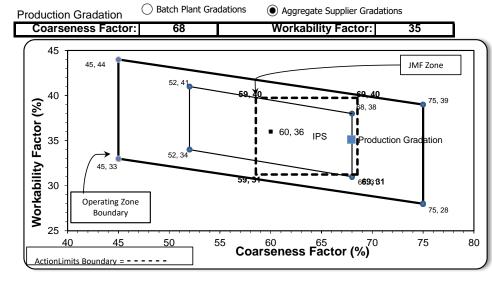
PLANT #:		P-101					Contractor:		
Sample Date	:	7/4/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/5/2022	through	7/11/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1625	9.94	2.62	53.2			
26A	71-47	Presque Isle	200	1.22	2.62	6.5			
2NS	75-051	Mid Michigan	1230	7.41	2.66	40.3			
		Total Wt	3055	18.57		100.0	< Verify this no	umber is 100%	
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	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"		98.6	100	0.0	100.0	99.3	0.7	0.7	
3/4"		81.6	100	0.0	100.0	90.2	9.0	9.8	
1/2"		37.2	98	3.4	100.0	66.5	23.7	33.5	
3/8"		18.5	89	9.0	100.0	55.9	10.6	44.1	*
#4		3.8	21	.4	99.0	43.3	12.6	56.7	*.
#8		2.1	5.	.3	83.6	35.1	8.2	64.9	no
#16		1.9	3.	.1	68.3	28.7	6.4	71.3	*
#30		1.7	2.	.7	52.6	22.3	6.5	77.7	no
#50		1.6	2.	.4	27.5	12.1	10.2	87.9	*(
#100		1.5	2.	.2	7.5	4.0	8.1	96.0	a 2
LBW		1.4	1.	.9	0.9	1.2	2.7	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.



Coarseness Fa Workability Fa Sieve Cumul % Pas 2" 100 1.5" 100 1" 100 3/4" 93.	actor: 35 ative % sing Retai	5	Cumulative
Sieve Cumul % Pas 2" 100 1.5" 100 1" 100	ative % sing Retai	,	Cumulative
Sieve % Pas 2" 100 1.5" 100 1" 100	sing Retai		Cumulative
2" 100 1.5" 100 1" 100		n n d	
1.5" 100 1" 100	0	nea	% Retained
1" 100	.0 0.0)	0.0
1 100	.0 0.0)	0.0
3/4" 93.	.0 0.0)	0.0
	9 6.1	1	6.1
1/2" 71.	4 22.	5	28.6
3/8" 59.	0 12.	4	41.0
#4 45.	1 13.	9	54.9
#8 35.	5 9.6	6	64.5
#16 28.	3 7.2	2	71.7
#30 21.	3 6.9	Э	78.7
#50 11.	0 10.	3	89.0
#100 3.4	4 7.6	6	96.6
LBW 1.1			

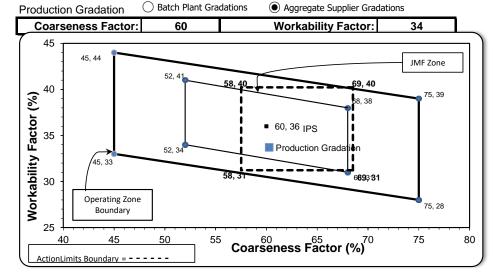
Approved By: Mart P. Ball

PLANT #:		P-102					Contractor:		
Sample Date):	7/4/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/5/2022	through	7/11/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1700	10.13	2.69	54.8			
26A	58-003	Stoneco	200	1.19	2.69	6.5			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7			
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	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	100.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"		87.7	100	0.0	100.0	93.3	6.7	6.7	1
1/2"		53.6	99).7	100.0	74.5	18.7	25.5	
3/8"		28.6	87	.6	100.0	60.0	14.5	40.0	*
#4		5.1	20	.8	98.8	42.4	17.7	57.6	*
#8		1.6	6.	.0	83.8	33.7	8.7	66.3	no
#16		1.0	3.	.2	66.2	26.4	7.3	73.6	*
#30		0.9	2.	.5	48.5	19.4	7.0	80.6	no
#50		0.8	2.	5	24.4	10.0	9.4	90.0	*
#100		0.8	2.	.2	7.4	3.4	6.6	96.6	a 2
LBW		0.8	1.	9	1.3	1.1	2.4	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.



ess Factor: lity Factor: umulative	63 36 %	
umulative		
	%	
Deceiver		Cumulative
B Passing	Retained	% Retained
100.0	0.0	0.0
100.0	0.0	0.0
99.2	0.8	0.8
90.9	8.3	9.1
71.3	19.6	28.7
59.5	11.8	40.5
43.8	15.7	56.2
35.7	8.1	64.3
27.0	8.7	73.0
18.6	8.4	81.4
6.8	11.8	93.2
1.4	5.4	98.6
0.6	0.8	99.4
	100.0 100.0 99.2 90.9 71.3 59.5 43.8 35.7 27.0 18.6 6.8 1.4	100.0 0.0 100.0 0.0 99.2 0.8 90.9 8.3 71.3 19.6 59.5 11.8 43.8 15.7 35.7 8.1 27.0 8.7 18.6 8.4 6.8 11.8 1.4 5.4

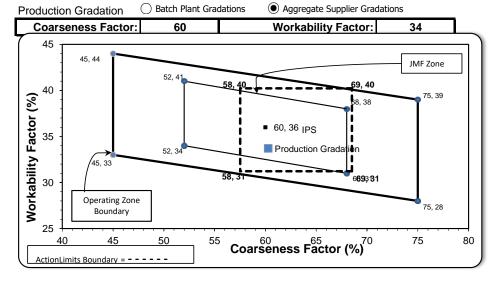
Approved By: Nat 1. Ball

PLANT #:		P-103					Contractor:		
Sample Date	e:	7/4/22			Concrete Grade:	S2M, 3500HP			
Dates Test F	Represents:	7/5/2022	through	7/11/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1700	10.13	2.69	54.8			
26A	58-003	Stoneco	200	1.19	2.69	6.5			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7			
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100).0	100.0	100.0	0.0	0.0	1
1.5"	1	100.0	100).0	100.0	100.0	0.0	0.0	
1"	1	100.0	100).0	100.0	100.0	0.0	0.0	
3/4"		87.7	100).0	100.0	93.3	6.7	6.7	
1/2"		53.6	99	.7	100.0	74.5	18.7	25.5	
3/8"		28.6	87	.6	100.0	60.0	14.5	40.0	*Ma
#4		5.1	20	.8	98.8	42.4	17.7	57.6	*An
#8		1.6	6.	0	83.8	33.7	8.7	66.3	nom.
#16		1.0	3.	2	66.2	26.4	7.3	73.6	*%
#30		0.9	2.	5	48.5	19.4	7.0	80.6	nom.
#50		0.8	2.	5	24.4	10.0	9.4	90.0	*%
#100		0.8	2.		7.4	3.4	6.6	96.6	a 2" r
LBW		0.8	1.	9	1.3	1.1	2.4	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 Production Sample (IPS)									
Coars	eness Factor:	63							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	99.2	0.8	0.8						
3/4"	90.9	8.3	9.1						
1/2"	71.3	19.6	28.7						
3/8"	59.5	11.8	40.5						
#4	43.8	15.7	56.2						
#8	35.7	8.1	64.3						
#16	27.0	8.7	73.0						
#30	18.6	8.4	81.4						
#50	6.8	11.8	93.2						
#100	1.4	5.4	98.6						
LBW	0.6	0.8	99.4						

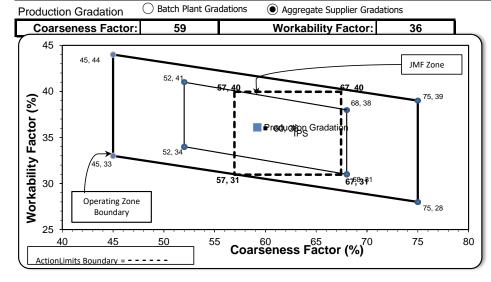
Approved BY: Marthe Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	7/4/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/5/2022	through	7/11/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1670	10.21	2.62	54.8			
26A	71-47	Presque Isle	150	0.92	2.62	4.9			
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"	1	98.5	10	0.0	100.0	99.2	0.8	0.8	1
3/4"	1	91.0	10	0.0	100.0	95.1	4.1	4.9	
1/2"	-	56.1	95	5.8	100.0	75.8	19.3	24.2	
3/8"	:	32.5	82	.3	100.0	62.2	13.6	37.8	*Ma
#4		6.4	29).1	96.2	43.7	18.4	56.3	*Ar
#8		3.0	11	.0	84.1	36.1	7.6	63.9	nom
#16		2.6	4.	.9	69.6	29.7	6.4	70.3	*%
#30		2.4	3.	5	51.2	22.1	7.6	77.9	nom
#50		2.3	3.	.1	26.6	12.1	10.0	87.9	*%
#100		2.2	2.	.9	8.7	4.9	7.3	95.1	a 2"
LBW		1.9	2.	.5	1.6	1.8	3.0	98.2	



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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 Sample (IPS)									
Coar	seness Factor:	62							
Wor	kability 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"	100.0	0.0	0.0						
3/4"	94.0	6.0	6.0						
1/2"	70.2	23.7	29.8						
3/8"	59.9	10.4	40.1						
#4	42.7	17.2	57.3						
#8	35.5	7.2	64.5						
#16	28.4	7.0	71.6						
#30	19.2	9.2	80.8						
#50	8.9	10.3	91.1						
#100	3.1	5.9	96.9						
LBW	1.4	1.7	98.6						
2.511			00.0						

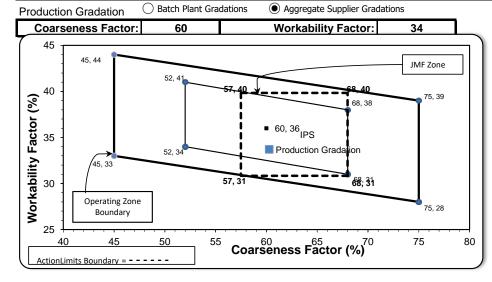
Approved By: Mart 1. Ball

PLANT #:		P-35					Contractor:		
Sample Date	e:	7/4/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	Represents:	7/5/2022	through	7/11/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1700	10.13	2.69	54.8			
26A	58-003	Stoneco	200	1.19	2.69	6.5			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7			
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100).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"		100.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"		87.7	100).0	100.0	93.3	6.7	6.7	
1/2"		53.6	99	.7	100.0	74.5	18.7	25.5	
3/8"		28.6	87	.6	100.0	60.0	14.5	40.0	*Ma
#4		5.1	20	.8	98.8	42.4	17.7	57.6	*Ar
#8		1.6	6.	0	83.8	33.7	8.7	66.3	nom
#16		1.0	3.	2	66.2	26.4	7.3	73.6	*%
#30		0.9	2.	5	48.5	19.4	7.0	80.6	nom
#50		0.8	2.	5	24.4	10.0	9.4	90.0	*%
#100		0.8	2.	2	7.4	3.4	6.6	96.6	a 2"
LBW		0.8	1.	9	1.3	1.1	2.4	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.



Intial Production Sample (IPS)									
Coar	seness Factor:	63							
Wor	kability 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"	99.2	0.8	0.8						
3/4"	90.9	8.3	9.1						
1/2"	71.3	19.6	28.7						
3/8"	59.4	11.9	40.6						
#4	43.0	16.5	57.0						
#8	35.3	7.6	64.7						
#16	28.2	7.1	71.8						
#30	21.6	6.6	78.4						
#50	9.1	12.5	90.9						
#100	1.7	7.4	98.3						
LBW	1.1	0.6	98.9						
	8								

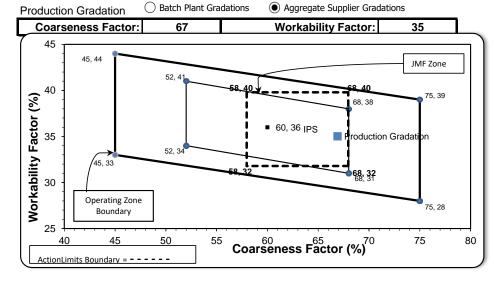
Approved By: Mart P. Ball

PLANT :	#:	P-39					Contractor:		
Sample Date):	7/4/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/5/2022	through	7/11/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1600	9.79	2.62	52.5			
26A	71-47	Presque Isle	200	1.22	2.62	6.6			
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	41.0			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	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	100.0	100.0	0.0	0.0	
1"		98.6	100).0	100.0	99.3	0.7	0.7	
3/4"		81.6	100).0	100.0	90.3	8.9	9.7	1
1/2"		37.2	98	.4	100.0	67.0	23.4	33.0	1
3/8"		18.5	89	.0	100.0	56.5	10.4	43.5	*N
#4		3.8	21	.4	96.6	43.0	13.5	57.0	*A
#8		2.1	5.	3	81.9	35.0	8.0	65.0	nor
#16		1.9	3.	3.1		29.3	5.7	70.7	*%
#30		1.7	2.	7	53.4	23.0	6.3	77.0	nor
#50		1.6	2.	4	28.6	12.7	10.2	87.3	*%
#100		1.5	2.		9.1	4.7	8.1	95.3	a 2'
LBW		1.4	1.	9	1.6	1.5	3.1	98.5	I



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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 Product	ion Sample (IPS	5)	_
Coars	seness Factor:	63	
Worl	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	89.8	10.2	10.2
1/2"	70.7	19.1	29.3
3/8"	59.6	11.1	40.4
#4	43.2	16.4	56.8
#8	35.8	7.4	64.2
#16	29.2	6.6	70.8
#30	21.4	7.8	78.6
#50	9.8	11.6	90.2
#100	3.7	6.1	96.3
LBW	1.2	2.5	98.8
LBW	1.2	2.5	98.8

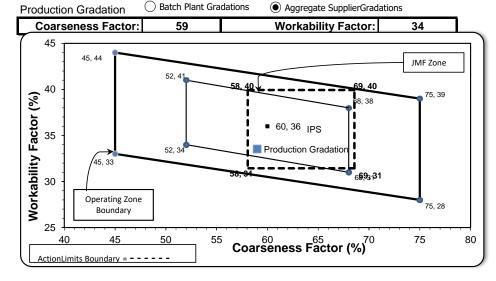
Approved By: Mart 1. Ball

PLANT #: Sample Date: Dates Test Represents:		P-O2		7/11/2022	Concrete Grade:		Contractor:		
		7/4/22				S2M, 3500HP			
		7/5/2022	through				MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1700	10.40	2.62	55.7			
26A	71-47	Presque Isle	120	0.73	2.62	3.9			
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	100.0		100.0		100.0	100.0	0.0	0.0	1
1.5"	100.0		100.0		100.0	100.0	0.0	0.0	
1"	98.6		100.0 100.0		100.0	99.2	0.8	0.8	
3/4"	3/4" 85.5				100.0	91.9	7.3	8.1	
1/2"	." 51.9		95.8		100.0	73.0	18.9	27.0	
3/8"	30.9		82.3		100.0	60.8	12.2	39.2	*
#4	4.9		29.1		96.8	42.9	17.9	57.1	*,
#8	2.3		11.0		78.9	33.5	9.4	66.5	no
#16	2.0		4.9		61.3	26.0	7.5	74.0	*
#30	1.9		3.5		44.8	19.3	6.8	80.7	no
#50 1.9		3.1		24.5	11.1	8.2	88.9	*0	
#100 1.8		2.9		4.8	3.1	8.0	96.9	a 2	
LBW 1.5		2.5		0.6	1.2	1.9	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.



Intial Product	ion Sample (IPS	5)	-	
Coars	seness Factor:	63		
Worl	ability Factor:	36		
Sieve	Cumulative	%	Cumulative	
Sieve	% Passing	Retained	% Retained	
2"	100.0	0.0	0.0	
1.5"	100.0	0.0	0.0	
1"	100.0	0.0	0.0	
3/4"	95.6	4.4	4.4	
1/2"	73.1	22.6	26.9	
3/8"	59.3	13.8	40.7	
#4	42.8	16.5	57.2	
#8	35.7	7.1	64.3	
#16	28.9	6.8	71.1	
#30	20.7	8.2	79.3	
#50	9.9	10.8	90.1	
#100	2.1	7.8	97.9	
LBW	0.9	1.2	99.1	

Approved By: Mart P. Ball