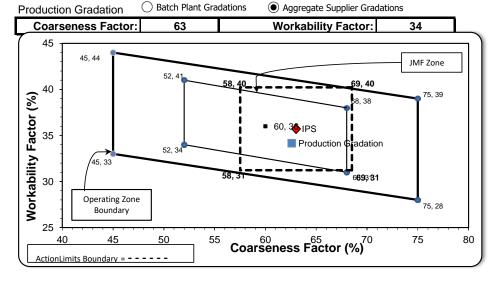
PLANT #: F		P-102					Contractor:		
Sample Date	-	5/20/24			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/21/2024	through	5/27/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1700	10.13	2.69	54.8			
26A	58-003	Stoneco	200	1.19	2.69	6.5			
2NS	63-114	Highland	1200	7.26	2.65	38.7			
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_
Sieve	6	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	00.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"	8	37.6	100	0.0	100.0	93.2	6.8	6.8	
1/2"	4	18.7	99	.5	100.0	71.8	21.4	28.2	
3/8"	2	26.2	88	.5	100.0	58.8	13.0	41.2	*
#4		4.2	7.	6	99.0	41.1	17.7	58.9	*
#8		1.9	2.	0	85.2	34.2	7.0	65.8	no
#16		1.6	1.	6	68.2	27.4	6.8	72.6	*
#30		1.5	1.	5	49.2	20.0	7.4	80.0	no
#50		1.4	1.	4	17.7	7.7	12.3	92.3	*
#100		1.4	1.		2.5	1.8	5.9	98.2	a '
LBW		1.2	1.	2	0.5	0.9	0.9	99.1	1



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Maximum % Retained must be above the 3/8" sieve.
Any two adjacent sieves must equal 10% except max.,
bm. max., #100 and #200 sieves.
% Retained must be at least 4% for each sieve except max.,
bm. max., #100 and #200 sieves.
% Retained must be at least 4% for the 3/4" sieve when
1.5" max. size (nom. Max. 1.0") 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					

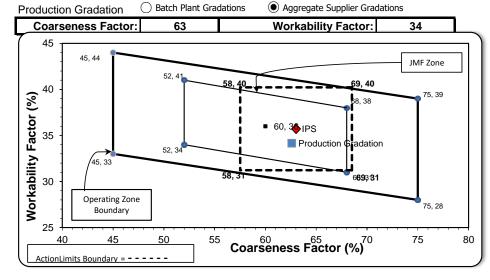
Approved By: Nat 1. Ball

PLANT #: P-1		P-103					Contractor:		
Sample Date):	5/20/24			Concrete Grade	: S2M, 3500HP			
Dates Test F	Represents:	5/21/2024	through	5/27/2024			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	63-114	Highland	1200	7.26	2.65	38.7			
		Total Wt			< 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
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"	8	37.6	100	0.0	100.0	93.2	6.8	6.8	
1/2"	4	48.7	99	.5	100.0	71.8	21.4	28.2	
3/8"		26.2	88	.5	100.0	58.8	13.0	41.2	*Ma
#4		4.2	7.	6	99.0	41.1	17.7	58.9	*An
#8		1.9	2.	0	85.2	34.2	7.0	65.8	nom.
#16		1.6	1.	6	68.2	27.4	6.8	72.6	*%
#30		1.5	1.	5	49.2	20.0	7.4	80.0	nom.
#50		1.4	1.	4	17.7	7.7	12.3	92.3	*%
#100		1.4	1.		2.5	1.8	5.9	98.2	a 1.5
LBW		1.2	1.	2	0.5	0.9	0.9	99.1	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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



Intial Production Sample (IPS)								
Coarse	eness Factor:	63						
Worka	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					

PREPARED BY: SM, LLC Technical Service

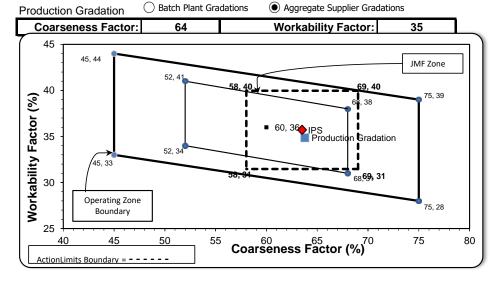
Approved BY: Mary P. Ball

PLANT #:		12					Contractor:		
Sample Date	:	5/20/24			Concrete Grade:	S2M, 3500HP			
Dates Test R		5/21/2024	through	5/27/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
			• • •		Gravity	Contribution			
6AA	71-47	Presque Isle	1550	9.48	2.62	50.8			
26A	71-47	Presque Isle	270	1.65	2.62	8.9			
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"	1	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"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"		85.1	100	0.0	100.0	92.4	7.6	7.6	
1/2"		36.9	96	.2	100.0	67.6	24.8	32.4	
3/8"	:	21.1	83	.6	100.0	58.5	9.1	41.5	*N
#4		5.4	14	.2	96.0	42.7	15.7	57.3	*A
#8		3.3	3.	1	81.6	34.9	7.9	65.1	nor
#16		2.8	1.	7	66.2	28.3	6.6	71.7	*%
#30		2.7	1.	5	50.6	21.9	6.4	78.1	nor
#50		2.5	1.	4	25.7	11.8	10.2	88.2	*9
#100		2.4	1.	4	4.6	3.2	8.6	96.8	a 1.
LBW		2.0	1.	3	0.5	1.3	1.9	98.7	1



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Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., im. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., im. max., #100 and #200 sieves. % Retained must be at least 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



ntial Produc	tion Sample (IPS	5)	
Coar	seness Factor:	64	
Wor	kability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sleve	% 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"	59.2	12.1	40.8
#4	41.5	17.7	58.5
#8	35.7	5.8	64.3
#16	27.9	7.9	72.1
#30	18.3	9.5	81.7
#50	7.3	11.0	92.7
#100	2.0	5.3	98.0
LBW	0.9	1.1	99.1

PREPARED BY: SM, LLC Technical Service

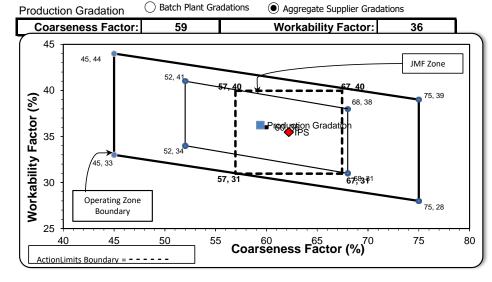
Approved By: Mart 1. Ball

PLANT #: p11		p11					Contractor:		
Sample Date	:	5/20/24			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/21/2024	through	5/27/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1450	8.87	2.62	47.5			
26A	71-47	Presque Isle	370	2.26	2.62	12.1			
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3			
		Total Wt	tal Ŵt 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	100.0	100.0	0.0	0.0	
1.5"	1	00.0	100).0	100.0	100.0	0.0	0.0	1
1"	1	97.3	100).0	100.0	98.7	1.3	1.3	
3/4"		83.1	100).0	100.0	92.0	6.8	8.0	1
1/2"		43.2	96	.2	100.0	72.5	19.4	27.5	
3/8"	:	24.5	83	.6	100.0	62.1	10.4	37.9	*M
#4		5.4	14	.2	96.3	43.1	19.0	56.9	*Ar
#8		3.3	3.	1	85.0	36.2	6.9	63.8	nom
#16		2.9	1.	7	70.4	30.0	6.2	70.0	*%
#30		2.7	1.	5	50.5	21.8	8.1	78.2	nom
#50		2.6	1.	4	23.6	10.9	10.9	89.1	*%
#100		2.4	1.		6.9	4.1	6.8	95.9	a 1.5
LBW		2.0	1.	3	1.3	1.6	2.5	98.4	1



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Maximum % Retained must be above the 3/8" sieve.
Any two adjacent sieves must equal 10% except max.,
bm. max., #100 and #200 sieves.
% Retained must be at least 4% for each sieve except max.,
bm. max., #100 and #200 sieves.
% Retained must be at least 4% for the 3/4" sieve when
1.5" max. size (nom. Max. 1.0") aggregate is used.



Intial Producti	Intial Production Sample (IPS)								
Coars	eness Factor:	62							
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"	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						

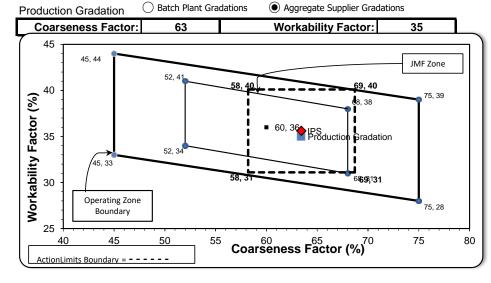
Approved By: Mart 1. Ball

PLANT :	#:	P-35					Contractor:		
Sample Date	:	5/20/24			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/21/2024	through	5/27/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	% Contribution			
6AA	58-003	Stoneco	1700	10.13	Gravity 2.69	Contribution 54.8			
26A	58-003	Stoneco	200	1.19	2.69	6.5			
20/1 2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7			
		Total Wt		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	100.0	100.0	0.0	0.0	1
1"	1	100.0	100).0	100.0	100.0	0.0	0.0	
3/4"		87.6	100	0.0	100.0	93.2	6.8	6.8	1
1/2"		48.7	99	.5	100.0	71.8	21.4	28.2	
3/8"		26.2	88	.5	100.0	58.8	13.0	41.2	*
#4		4.2	7.	6	99.3	41.2	17.6	58.8	*/
#8		1.9	2.	0	87.4	35.0	6.2	65.0	noi
#16		1.6	1.	6	64.3	25.9	9.1	74.1	*(
#30		1.5	1.	5	38.7	15.9	10.0	84.1	no
#50		1.4	1.	4	14.5	6.5	9.4	93.5	*9
#100		1.4	1.		2.5	1.8	4.6	98.2	a 1
LBW		1.2	1.	2	0.4	0.9	0.9	99.1	1



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Maximum % Retained must be above the 3/8" sieve.
Any two adjacent sieves must equal 10% except max.,
bm. max., #100 and #200 sieves.
% Retained must be at least 4% for each sieve except max.,
bm. max., #100 and #200 sieves.
% Retained must be at least 4% for the 3/4" sieve when
1.5" max. size (nom. Max. 1.0") aggregate is used.



Casta			
Coarse	eness Factor:	63	
Worka	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"	93.1	6.9	6.9
1/2"	70.0	23.1	30.0
3/8"	59.1	10.9	40.9
#4	46.0	13.1	54.0
#8	35.6	10.4	64.4
#16	27.2	8.4	72.8
#30	19.8	7.4	80.2
#50	10.1	9.7	89.9
#100	#100 2.5		97.5
LBW	0.9	1.6	99.1

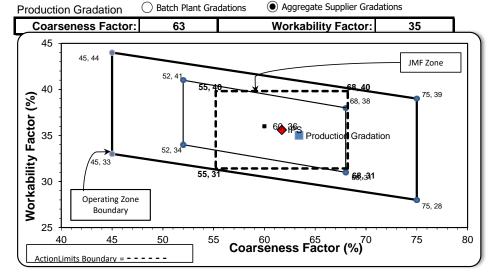
Approved By: Mart 1. Ball

PLANT #: P-3		P-38					Contractor:		
Sample Date	:	5/20/24			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/21/2024	through	5/27/2024			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	0.0	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	10	0.0	100.0	100.0	0.0	0.0	
3/4"		87.6	100	0.0	100.0	93.2	6.8	6.8	
1/2"		48.7	99	0.5	100.0	71.8	21.4	28.2	
3/8"		26.2	88	5.5	100.0	58.8	13.0	41.2	*N
#4		4.2	7.	.6	99.3	41.2	17.6	58.8	*A
#8		1.9	2.	.0	87.4	35.0	6.2	65.0	nor
#16		1.6	1.	.6	64.3	25.9	9.1	74.1	*%
#30		1.5	1.	.5	38.7	15.9	10.0	84.1	nor
#50		1.4	1.	.4	14.5	6.5	9.4	93.5	*9
#100		1.4		.4	2.5	1.8	4.6	98.2	a 1
LBW		1.2	1.	.2	0.4	0.9	0.9	99.1	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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



Intial Production	Intial Production Sample (IPS)								
Coars	eness Factor:	62							
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"	91.1	8.1	8.9						
1/2"	72.0	19.1	28.0						
3/8"	60.3	11.7	39.7						
#4	43.4	16.9	56.6						
#8	35.6	7.8	64.4						
#16	28.4	7.2	71.6						
#30	21.8	6.7	78.2						
#50	9.1	12.6	90.9						
#100	1.7	7.4	98.3						
LBW	1.1	0.6	98.9						

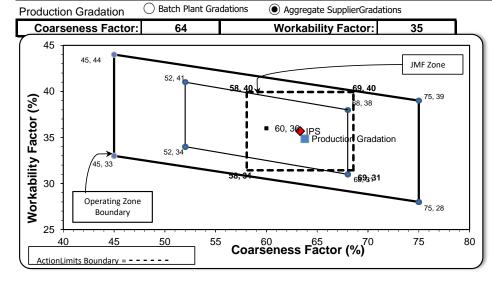
Approved By: Mart 1. Ball

PLANT #: Sample Date: Dates Test Represents:		P-O2		5/27/2024	Concrete Grade:		Contractor:		
		5/20/24 5/21/2024				S2M, 3500HP			
			through				MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
	-		• • •		Gravity	Contribution			
6AA	71-47	Presque Isle	1550	9.48	2.62	50.8			
26A	71-47	Presque Isle	270	1.65	2.62	8.9			
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this number is 100%		
Sieve	6AA		26A		2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	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"	100.0		100.0		100.0	100.0	0.0	0.0	
3/4"	85.1		100.0		100.0	92.4	7.6	7.6	1
1/2"	36.9		96.2		100.0	67.6	24.8	32.4	
3/8"	21.1		83.6		100.0	58.5	9.1	41.5	*
#4	5.4		14.2		96.0	42.7	15.7	57.3	*
#8	3.3		3.1		81.6	34.9	7.9	65.1	nc
#16	2.8		1.7		66.2	28.3	6.6	71.7	*
#30	2.7		1.5		50.6	21.9	6.4	78.1	nc
#50	#50 2.5		1.4		25.7	11.8	10.2	88.2	*
#100 2.4		1.4		4.6	3.2	8.6	96.8	a ·	
LBW	LBW 2.0		1.3		0.5	1.3	1.9	98.7	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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") 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"	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					

PREPARED BY: SM, LLC Technical Service

Approved By: Mart 1. Ball