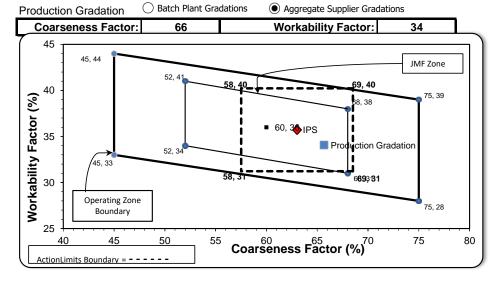
PLANT #	#:	P-102					Contractor:		
Sample Date	:	7/8/24			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/9/2024	through	7/15/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	50.0			
26A	58-003	Stoneco	350	2.09	2.69	11.3			
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	AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1(0.00	100	0.0	100.0	100.0	0.0	0.0	1
1.5"	1(0.00	100	0.0	100.0	100.0	0.0	0.0	
1"	1(0.00	100	0.0	100.0	100.0	0.0	0.0	
3/4"	8	6.0	100	0.0	100.0	93.0	7.0	7.0	1
1/2"	3	9.6	98	5.8	100.0	69.7	23.3	30.3	
3/8"	1	5.9	88	5.9	100.0	56.7	13.0	43.3	
#4		2.3	10	.2	98.6	40.5	16.2	59.5	
#8		1.5	3.	.3	85.1	34.1	6.4	65.9	n
#16		1.3	2.	.4	68.4	27.4	6.7	72.6	
#30		1.1	2.	.3	48.6	19.6	7.8	80.4	n
#50		1.0	2.	.1	18.5	7.9	11.7	92.1	
#100	(0.9	1.	.9	3.3	1.9	6.0	98.1	а
LBW	(0.7	1.	7	0.5	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.,
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						
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"	59.5	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						

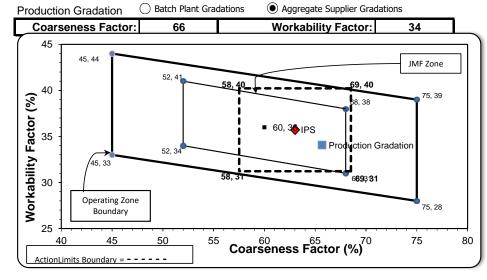
Approved By: Nat 1. Ball

PLANT :	#:	P-103					Contractor:		
Sample Date	-	7/8/24			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/9/2024	through	7/15/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	50.0			
26A	58-003	Stoneco	350	2.09	2.69	11.3			
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	100.0	100.0	0.0	0.0	
1"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	1
3/4"	8	36.0	100).0	100.0	93.0	7.0	7.0	1
1/2"	3	39.6	98	.8	100.0	69.7	23.3	30.3	
3/8"	1	15.9	88	.9	100.0	56.7	13.0	43.3	1
#4		2.3	10	.2	98.6	40.5	16.2	59.5	1
#8		1.5	3.	3	85.1	34.1	6.4	65.9	
#16		1.3	2.4		68.4	27.4	6.7	72.6	1
#30		1.1	2.3		48.6	19.6	7.8	80.4	
#50		1.0	2.	2.1		7.9	11.7	92.1]
#100		0.9	1.	9	3.3	1.9	6.0	98.1	1
LBW		0.7	1.	7	0.5	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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



Coarseness Factor Workability Factor Sieve Cumulative % Passing	: 36 % Retained	Cumulative % Retained
Sieve	% Retained	
Sieve	Retained	
% Passing		% Retained
/01 d0011g	0.0	
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



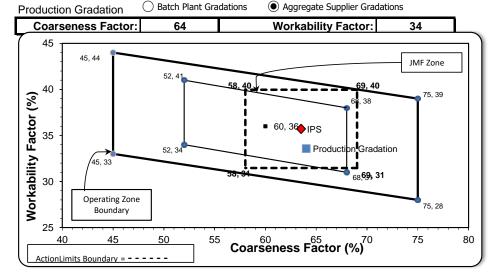
PLANT #	#:	12					Contractor:		
Sample Date	:	7/8/24			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/9/2024	through	7/15/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1520	9.30	2.62	49.8			
26A	71-47	Presque Isle	300	1.83	2.62	9.8			
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this nu	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"	9	97.1	100).0	100.0	98.6	1.4	1.4	
3/4"	1	84.4	100).0	100.0	92.2	6.3	7.8	1
1/2"		40.2	96	.7	100.0	69.9	22.4	30.1	1
3/8"		17.6	85	.2	100.0	57.5	12.4	42.5	*
#4		3.0	18	.4	97.6	42.7	14.8	57.3	*,
#8		2.1	4.	0	79.7	33.6	9.1	66.4	no
#16		1.8	2.	2.2		27.1	6.5	72.9	*(
#30		1.7	1.	8	49.6	21.0	6.1	79.0	no
#50		1.6	1.	7	27.4	12.0	9.0	88.0	*0
#100		1.5	1.	6	6.2	3.4	8.6	96.6	a 1
LBW		1.2	1.	4	0.7	1.0	2.4	99.0	1



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Farmington Hills, MI 48336

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 Produc	1		
Coar	seness Factor:	64	
Wor	kability 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"	59.2	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

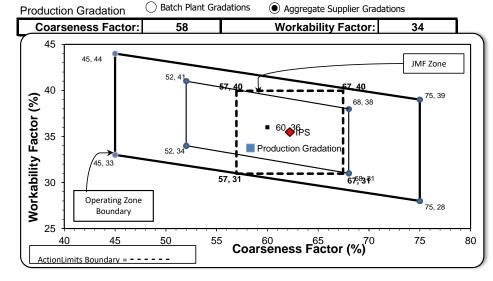
Approved By: Mart 1. Ball

PLANT #: p'		p11					Contractor:		
Sample Date	:	7/8/24			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/9/2024	through	7/15/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1570	9.60	2.62	51.5			
26A	71-47	Presque Isle	250	1.53	2.62	8.2			
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	00.0	100	0.0	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	96.4	100).0	100.0	98.1	1.9	1.9	
3/4"		82.9	100	0.0	100.0	91.2	6.9	8.8	
1/2"		44.2	96	.7	100.0	71.0	20.2	29.0	
3/8"	:	27.3	85	.2	100.0	61.4	9.6	38.6	*Ma
#4		4.9	18	.4	97.6	43.4	18.0	56.6	*An
#8		2.5	4.	0	79.7	33.8	9.6	66.2	nom.
#16		2.1	2.	2	64.5	27.3	6.5	72.7	*%
#30		2.0	1.	8	49.6	21.2	6.1	78.8	nom.
#50		1.9	1.	7	27.4	12.2	9.0	87.8	*% I
#100		1.8	1.		6.2	3.6	8.6	96.4	a 1.5
LBW		1.5	1.	4	0.7	1.2	2.4	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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



Intial Product	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	#50 8.9		91.1						
#100	3.1	5.9	96.9						
LBW	1.4	1.7	98.6						
	.								

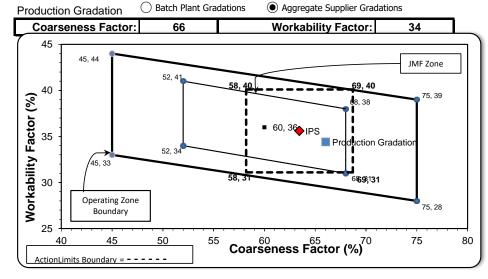
Approved By: Mart 1. Ball

PLANT :	#:	P-35					Contractor:		
Sample Date	:	7/8/24			Concrete Grade:	S2M, 3500HP			
Dates Test R		7/9/2024	through	7/15/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
Agg. Olass		oource	Weight (SSD)		Gravity	Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	50.0			
26A	58-003	Stoneco	350	2.09	2.69	11.3			
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"	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"		86.0	100	0.0	100.0	93.0	7.0	7.0	
1/2"		39.6	98	5.8	100.0	69.7	23.3	30.3	1
3/8"		15.9	88	9.9	100.0	56.7	13.0	43.3	*N
#4		2.3	10).2	98.4	40.4	16.3	59.6	*A
#8		1.5	3.	.3	86.0	34.4	6.0	65.6	nor
#16		1.3	2.	.4	64.7	26.0	8.4	74.0	*9
#30		1.1	2.3		43.3	17.6	8.4	82.4	nor
#50		1.0	2.	.1	19.7	8.4	9.2	91.6	*9
#100		0.9	1.	.9	3.1	1.9	6.5	98.1	a 1
LBW		0.7	1.	.7	0.4	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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



Intial Production	on Sample (IPS	5)	_	
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"	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	2.5	7.6	97.5	
LBW	0.9	1.6	99.1	

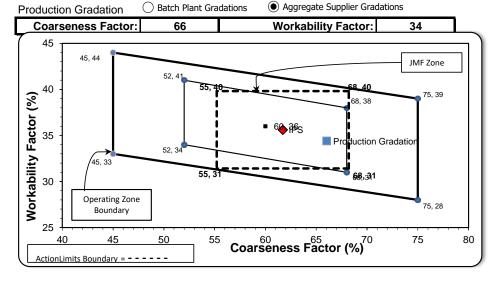
Approved By: Mart 1. Ball

PLANT #	#:	P-38					Contractor:		
Sample Date	:	7/8/24			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/9/2024	through	7/15/2024			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	50.0			
26A	58-003	Stoneco	350	2.09	2.69	11.3			
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
1"		100.0	100	100.0 100.0	100.0	0.0	0.0		
3/4"		86.0	100	0.0	100.0	93.0	7.0	7.0	
1/2"		39.6	98	.8	100.0	69.7	23.3	30.3	
3/8"		15.9	88	.9	100.0	56.7	13.0	43.3	*
#4		2.3	10	.2	98.4	40.4	16.3	59.6	*/
#8		1.5	3.	3	86.0	34.4	6.0	65.6	no
#16		1.3	2.	4	64.7	26.0	8.4	74.0	*0
#30		1.1	2.	3	43.3	17.6	8.4	82.4	no
#50		1.0	2.	2.1		8.4	9.2	91.6	*0
#100		0.9	1.		3.1	1.9	6.5	98.1	a 1
LBW		0.7	1.	7	0.4	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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



Intial Production	on Sample (IPS	5)	-
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	#50 9.1		90.9
#100	1.7	7.4	98.3
LBW	1.1	0.6	98.9

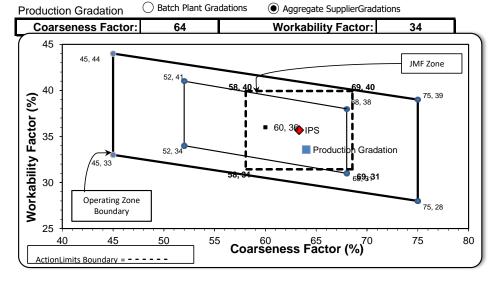
Approved By: Mart 1. Ball

PLANT #: Sample Date: Dates Test Represents:		P-O2 7/8/24 7/9/2024		7/15/2024	Concrete Grade:		Contractor:		
						S2M, 3500HP			
			through				MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1520	9.30	2.62	49.8			
26A	71-47	Presque Isle	300	1.83	2.62	9.8			
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this n	mber is 100%	
Sieve	6AA		26A		2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	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"	97.1		100.0		100.0	98.6	1.4	1.4	
3/4"	84.4		100.0		100.0	92.2	6.3	7.8	
1/2"	40.2		96.7		100.0	69.9	22.4	30.1	
3/8"	17.6		85.2		100.0	57.5	12.4	42.5	*
#4	3.0		18.4		97.6	42.7	14.8	57.3	*
#8	2.1		4.0		79.7	33.6	9.1	66.4	no
#16	1.8		2.2		64.5	27.1	6.5	72.9	*(
#30	1.7		1.	1.8		21.0	6.1	79.0	no
#50	1.6		1.	7	27.4	12.0	9.0	88.0	*(
#100			1.6		6.2	3.4	8.6	96.6	a 1
LBW	V 1.2		1.4		0.7	1.0	2.4	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.,
pm. max., #100 and #200 sieves.
% Retained must be at least 4% for each sieve except max.,
pm. 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	on 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	

Approved By: Mart 1. Ball