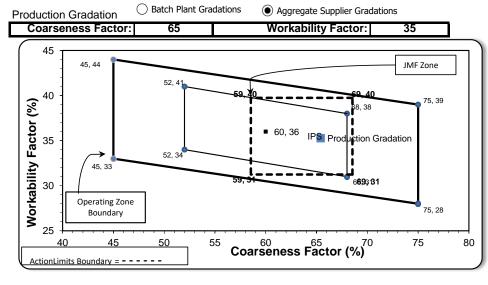
PLANT #	#:	P-101					Contractor:		
Sample Date	:	10/24/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/25/2022	through	10/31/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
					Gravity	Contribution			
6AA	71-47	Presque Isle	1570	9.60	2.62	51.4			
26A	71-47	Presque Isle	255	1.56	2.62	8.3			
2NS	75-051	Mid Michigan	1230	7.41	2.66	40.3			
		Total Wt	3055	18.57		100.0	< Verify this n	umber is 100%	
Sieve		6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	10	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	
3/4"		81.6	10	0.0	100.0	90.5	8.7	9.5	
1/2"		40.2	93	3.5	100.0	68.7	21.8	31.3	1
3/8"	1	21.4	76	6.8	100.0	57.7	11.1	42.3	*N
#4		2.9	20).3	98.7	42.9	14.7	57.1	*/
#8		1.7	7.	.5	83.9	35.3	7.6	64.7	nor
#16		1.5	4.3		68.1	28.5	6.7	71.5	*9
#30		1.5	3.3		49.6	21.0	7.5	79.0	nor
#50		1.4	3	.0	22.0	9.8	11.2	90.2	*9
#100		1.4	2	2.8		3.0	6.8	97.0	a 2
LBW		1.2	2	.4	0.7	1.1	1.9	98.9	1



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Initial Producti	on Sample (IPS	5)	_
Coars	eness Factor:	64	
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"	93.9	6.1	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	64.5
#16	28.3	7.2	71.7
#30	21.3	6.9	78.7
#50	11.0	10.3	89.0
#100	3.4	7.6	96.6
LBW	1.1	2.3	98.9

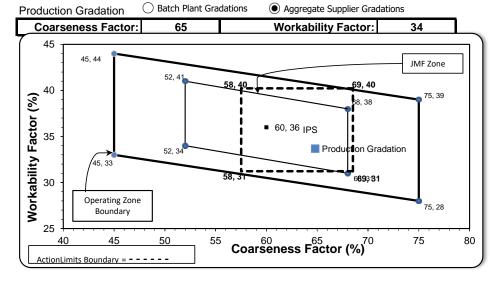
Approved By: Mart 1. Ball

PLANT #:		P-102					Contractor:		
Sample Date	:	10/24/22			Concrete Grade:	S2M, 3500HP			
Dates Test R		10/25/2022	through	10/31/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1650	9.83	2.69	53.2			
26A	58-003	Stoneco	250	1.49	2.69	8.1			
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
1.5"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		99.8	100	0.0	100.0	99.9	0.1	0.1	1
3/4"		82.9	100	0.0	100.0	90.9	9.0	9.1	1
1/2"		44.3	99	.6	100.0	70.3	20.6	29.7	
3/8"		21.6	84	.5	100.0	57.0	13.3	43.0	
#4		3.8	14	.9	98.3	41.3	15.7	58.7	
#8		1.6	5.	2	83.7	33.7	7.6	66.3	n
#16		1.3	3.3		66.4	26.7	7.0	73.3	
#30		1.2	2.6		46.4	18.8	7.9	81.2	n
#50		1.0	2.	2.4		9.1	9.7	90.9	
#100		1.0	2.	2.3		3.2	5.9	96.8	а
LBW		0.8	2.	0	1.7	1.2	2.0	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., 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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



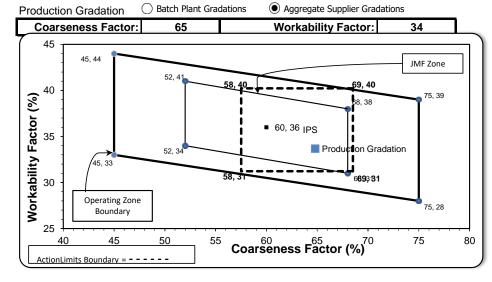
	on Sample (IPS	·)	
Coars	eness Factor:	63	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sleve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	3/4" 90.9		9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	#50 6.8		93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

Approved By: Mart P. Ball

PLANT #: P		P-103					Contractor:		
Sample Date):	10/24/22			Concrete Grade	: S2M, 3500HP			
Dates Test F	epresents:	10/25/2022	through	10/31/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1650	9.83	2.69	53.2			
26A	58-003	Stoneco	250	1.49	2.69	8.1			
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"		99.8	100).0	100.0	99.9	0.1	0.1	
3/4"		82.9	100	0.0	100.0	90.9	9.0	9.1	
1/2"		44.3	99	.6	100.0	70.3	20.6	29.7	
3/8"		21.6	84	.5	100.0	57.0	13.3	43.0	*Ma
#4		3.8	14	.9	98.3	41.3	15.7	58.7	*Any
#8		1.6	5.	2	83.7	33.7	7.6	66.3	nom.
#16		1.3	3.3		66.4	26.7	7.0	73.3	*% F
#30		1.2	2.6		46.4	18.8	7.9	81.2	nom.
#50		1.0	2.	2.4		9.1	9.7	90.9	*% F
#100		1.0	2.	2.3		3.2	5.9	96.8	a 2" m
LBW		0.8	2.	0	1.7	1.2	2.0	98.8	1



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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" 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	Intial Production Sample (IPS)									
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" 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	Coars	eness Factor:	63							
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" 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	Work	ability Factor:	36							
% 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	Siovo	Cumulative	%	Cumulative						
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	Sieve	% Passing	Retained	% Retained						
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	2"	100.0	0.0	0.0						
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	1.5"	100.0	0.0	0.0						
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	1"	99.2	0.8	0.8						
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	3/4"	90.9	8.3	9.1						
#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	1/2"	71.3	19.6	28.7						
#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	3/8"	59.5	11.8	40.5						
#16 27.0 8.7 73.0 #30 18.6 8.4 81.4 #50 6.8 11.8 93.2	#4	43.8	15.7	56.2						
#30 18.6 8.4 81.4 #50 6.8 11.8 93.2	#8	35.7	8.1	64.3						
#50 6.8 11.8 93.2	#16	27.0	8.7	73.0						
	#30	18.6	8.4	81.4						
#100 1.4 5.4 98.6	#50	6.8	11.8	93.2						
#100 1.4 5.4 50.0	#100	1.4	5.4	98.6						
LBW 0.6 0.8 99.4	LBW	0.6	0.8	99.4						

Approved BY: Mary P. Ball

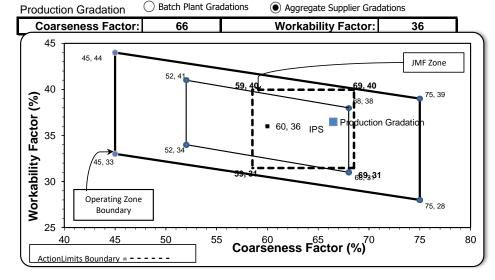
PLANT :	#:	P-14					Contractor:		
Sample Date	e:	10/24/22			Concrete Grade:	S2M, 3500HP			
Dates Test R		10/25/2022	through	10/31/2022	2		MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1620	9.65	2.69	52.1			
26A	58-003	Stoneco	280	1.67	2.69	9.0			
2NS	19-55	Schlegel	1210	7.26	2.67	38.9			
		Total Wt	3110	18.58		100.0	< Verify this n	umber is 100%	_
Sieve	(6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1"	ç	99.8	10	0.0	100.0	99.9	0.1	0.1	
3/4"	8	82.9		0.0	100.0	91.1	8.8	8.9	
1/2"	4	44.3	99	0.6	100.0	70.9	20.1	29.1	
3/8"		21.6	84	.5	100.0	57.8	13.2	42.2	*Maximum 9
#4		3.8	14	.9	99.9	42.2	15.6	57.8	*Any two ad
#8		1.6	5	5.2		36.5	5.7	63.5	nom. max., #
#16	#16 1.3		3.3		71.5	28.8	7.7	71.2	*% Retained
#30		1.2	2	.6	50.7	20.6	8.2	79.4	nom. max., #
#50		1.0	2	4	17.4	7.5	13.1	92.5	*% Retained
#100		1.0		.3	3.2	2.0	5.5	98.0	a 2" max. size
LBW		0.8	2	.0	0.4	0.8	1.2	99.2	



Builders Redi-Mix

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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 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:	64	
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"	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
LBW	0.9	1.1	99.1

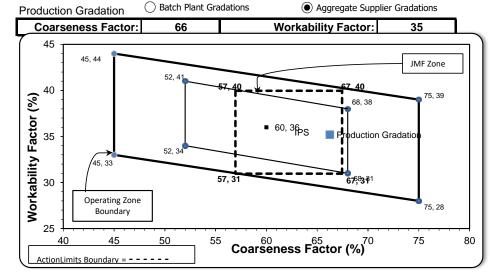
Approved By: Mart P. Ball

PLANT #: 11		11					Contractor:		
Sample Date):	10/24/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/25/2022	through	10/31/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1620	9.91	2.62	53.1			
26A	71-47	Presque Isle	200	1.22	2.62	6.6			
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	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1"	1	98.3	10	0.0	100.0	99.1	0.9	0.9	
3/4"		82.1	10	0.0	100.0	90.5	8.6	9.5	
1/2"		38.4	99	9.4	100.0	67.2	23.3	32.8	
3/8"	:	20.6	88	3.4	100.0	57.1	10.2	42.9	*Maximu
#4		3.5	22	2.6	95.6	41.9	15.2	58.1	*Any two
#8		2.2	5	.3	83.5	35.2	6.7	64.8	nom. max
#16		1.9	2.4		68.6	28.8	6.4	71.2	*% Retai
#30		1.9	1.9		50.0	21.3	7.5	78.7	nom. max
#50		1.8	1	.7	24.7	11.0	10.3	89.0	*% Retai
#100		1.7		.6	7.4	4.0	7.0	96.0	a 2" max.
LBW		1.3	1	.4	1.2	1.3	2.7	98.7	



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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)	_
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

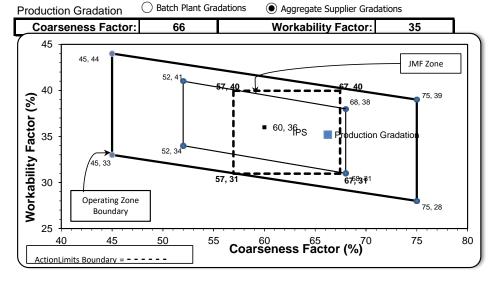
Approved By: Mart 1. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	10/24/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/25/2022	through	10/31/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1620	9.91	2.62	53.1			
26A	71-47	Presque Isle	200	1.22	2.62	6.6			
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"	100.0		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	98.3	100	0.0	100.0	99.1	0.9	0.9	
3/4"		82.1	100	0.0	100.0	90.5	8.6	9.5	1
1/2"		38.4	99	0.4	100.0	67.2	23.3	32.8	
3/8"	:	20.6	88	3.4	100.0	57.1	10.2	42.9	*Ma
#4		3.5	22	2.6	95.6	41.9	15.2	58.1	*Ar
#8	2.2		5.	.3	83.5	35.2	6.7	64.8	nom
#16		1.9	2.4		68.6	28.8	6.4	71.2	*%
#30		1.9	1.9		50.0	21.3	7.5	78.7	nom
#50		1.8	1.	7	24.7	11.0	10.3	89.0	*%
#100		1.7		1.6		4.0	7.0	96.0	a 2"
LBW		1.3	1.	4	1.2	1.3	2.7	98.7	



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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.



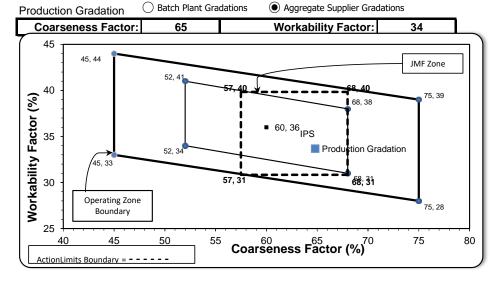
Intial Production	on Sample (IPS	5)	_
Coars	eness Factor:	62	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	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	:	10/24/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/25/2022	through	10/31/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1650	9.83	2.69	53.2			
26A	58-003	Stoneco	250	1.49	2.69	8.1			
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"		99.8	100	0.0	100.0	99.9	0.1	0.1	
3/4"		82.9	100	0.0	100.0	90.9	9.0	9.1	
1/2"		44.3	99	.6	100.0	70.3	20.6	29.7	
3/8"		21.6	84	.5	100.0	57.0	13.3	43.0	*Ma
#4		3.8	14	.9	98.3	41.3	15.7	58.7	*An
#8		1.6	5.	2	83.7	33.7	7.6	66.3	nom
#16		1.3	3.	3	66.4	26.7	7.0	73.3	*%
#30		1.2	2.	6	46.4	18.8	7.9	81.2	nom
#50		1.0	2.	4	21.6	9.1	9.7	90.9	*%
#100		1.0	2.		6.4	3.2	5.9	96.8	a 2"
LBW		0.8	2.	0	1.7	1.2	2.0	98.8	1



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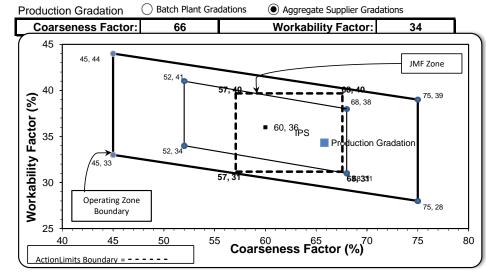
Intial Production Sample (IPS)								
Coar	seness Factor:	63						
Wor	kability Factor:	35						
Sieve	Cumulative	%	Cumulative					
Sieve	% Passing	Retained	% Retained					
2"	100.0	0.0	0.0					
1.5"	100.0	0.0	0.0					
1"	99.2	0.8	0.8					
3/4"	90.9	8.3	9.1					
1/2"	71.3	19.6	28.7					
3/8"	59.4	11.9	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-36					Contractor:		
Sample Date	:	10/24/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/25/2022	through	10/31/2022			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	300	1.83	2.62	9.8			
2NS	63-92	Grange Hall	1200	7.26	2.65	39.3			
		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	97.0	100	0.0	100.0	98.5	1.5	1.5	
3/4"		81.3	100	0.0	100.0	90.5	8.0	9.5	
1/2"		37.2	99	.4	100.0	68.0	22.5	32.0]
3/8"		17.2	88	.4	100.0	56.8	11.2	43.2	*
#4		3.3	22	.6	97.5	42.3	14.5	57.7	*
#8		1.7	5.	3	83.7	34.3	7.9	65.7	no
#16		1.5	2.	4	69.0	28.1	6.2	71.9	*
#30		1.4	1.	9	49.1	20.2	7.9	79.8	no
#50		1.4	1.	7	20.0	8.7	11.5	91.3	*
#100		1.3	1.	6	3.6	2.2	6.5	97.8	a 2
LBW		1.1	1.	4	0.9	1.1	1.2	98.9	1



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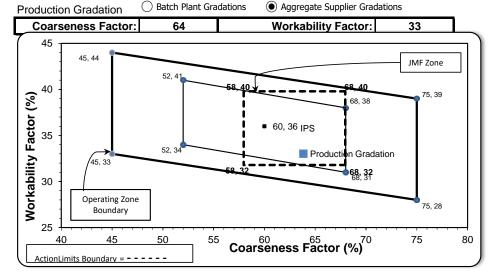
Intial Production	5)	_	
Coars	eness Factor:	62	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.1	0.9	0.9
3/4"	90.5	8.6	9.5
1/2"	69.8	20.7	30.2
3/8"	59.8	10.0	40.2
#4	42.2	17.6	57.8
#8	35.4	6.7	64.6
#16	28.8	6.7	71.2
#30	21.4	7.4	78.6
#50	8.8	12.6	91.2
#100	1.8	7.0	98.2
LBW	0.7	1.0	99.3

Approved By: Mart 1. Ball

PLANT #	#:	P-39					Contractor:		
Sample Date	:	10/24/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/25/2022	through	10/31/2022			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	Α	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"		98.5	100	0.0	100.0	99.2	0.8	0.8	
3/4"		81.6	100	0.0	100.0	90.3	8.9	9.7	1
1/2"		40.2	93	.5	100.0	68.2	22.1	31.8	
3/8"		21.4	76	.8	100.0	57.2	11.0	42.8	*Ma
#4		2.9	20	.3	95.8	42.1	15.1	57.9	*Any
#8		1.7	7.	5	77.2	33.0	9.1	67.0	nom.
#16		1.5	4.	3	61.8	26.4	6.6	73.6	*% F
#30		1.5	3.	3	47.0	20.3	6.1	79.7	nom.
#50		1.4	3.	0	25.8	11.5	8.8	88.5	*% F
#100		1.4	2.		8.0	4.2	7.3	95.8	a 2" m
LBW		1.2	2.	4	1.0	1.2	3.0	98.8	1



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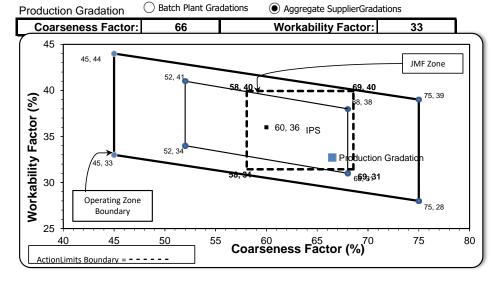
Sieve % Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 100.0 0.0 0.0 3/4" 89.8 10.2 10.2 1/2" 70.7 19.1 29.3 3/8" 59.6 11.1 40.4 #4 43.2 16.4 56.8 #8 35.8 7.4 64.2 #16 29.2 6.6 70.8		Intial Production Sample (IPS)							
Sieve Cumulative % Passing % Retained Cumulative % 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" 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			63	Coarseness Factor:					
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" 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			36	ability Factor:	Work				
% 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 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	ive	Cumulativ	%	Cumulative	Siovo				
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	ned	% Retaine	Retained	% Passing	Sieve				
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		0.0	0.0	100.0	2"				
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		0.0	0.0	100.0	1.5"				
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		0.0	0.0	100.0	1"				
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		10.2	10.2	89.8	3/4"				
#4 43.2 16.4 56.8 #8 35.8 7.4 64.2 #16 29.2 6.6 70.8		29.3	19.1	70.7	1/2"				
#8 35.8 7.4 64.2 #16 29.2 6.6 70.8		40.4	11.1	59.6	3/8"				
#16 29.2 6.6 70.8		56.8	16.4	43.2	#4				
		64.2	7.4	35.8	#8				
		70.8	6.6	29.2	#16				
#30 21.4 7.8 78.6		78.6	7.8	21.4	#30				
#50 9.8 11.6 90.2		90.2	11.6	9.8	#50				
#100 3.7 6.1 96.3		96.3	6.1	3.7	#100				
LBW 1.2 2.5 98.8		98.8	2.5	1.2	LBW				

Approved By: Mary 1. Ball

PLANT #	#:	P-O2					Contractor:		
Sample Date	:	10/24/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/25/2022	through	10/31/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1620	9.91	2.62	53.1			
26A	71-47	Presque Isle	200	1.22	2.62	6.6			
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	97.0	100	0.0	100.0	98.4	1.6	1.6	
3/4"		81.3	100	0.0	100.0	90.1	8.3	9.9	
1/2"		37.2	99	.4	100.0	66.6	23.5	33.4	
3/8"		17.2	88	.4	100.0	55.3	11.3	44.7	
#4		3.3	22	6	96.7	42.2	13.0	57.8	
#8		1.7	5.	3	78.0	32.7	9.5	67.3	n
#16		1.5	2.	4	60.8	25.5	7.2	74.5	
#30		1.4	1.	9	46.3	19.5	5.9	80.5	n
#50		1.4	1.	7	26.3	11.5	8.1	88.5	
#100		1.3	1.	6	6.2	3.3	8.2	96.7	а
LBW		1.1	1.	4	0.7	1.0	2.3	99.0	Τ



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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					

Approved By: Mart P. Ball