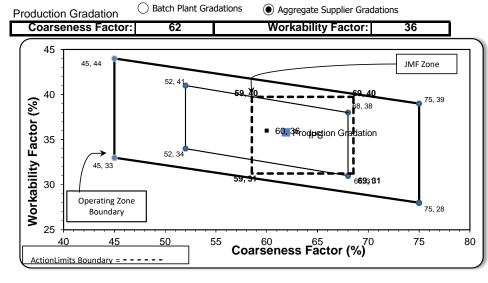
PLANT #	#:	P-101					Contractor:								
Sample Date	:	6/12/23			Concrete Grade:	S2M, 3500HP									
Dates Test R	epresents:	6/13/2023	through	6/19/2023			MDOT No.:								
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution									
6AA	71-47	Presque Isle	1575	9.63	2.62	51.6									
26A	71-47	Presque Isle	250	1.53	2.62	8.2									
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	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"		97.8	100	0.0	100.0	98.9	1.1	1.1							
3/4"		79.8		10	10	10	10	10	:	0.0	100.0	89.6	9.3	10.4	
1/2"		41.1	97	.0	100.0	69.4	20.2	30.6							
3/8"		25.0	87	.0	100.0	60.3	9.1	39.7	*N						
#4		5.8	22	2	97.0	43.9	16.4	56.1	*A						
#8		2.6	5.	.9	84.4	35.8	8.1	64.2	non						
#16		2.2	3.	.3	70.8	29.9	5.9	70.1	*%						
#30		2.0	2.8		54.1	23.0	6.9	77.0	non						
#50		2.0	2.	.6	25.0	11.3	11.7	88.7	*%						
#100		1.9	2.		5.7	3.5	7.8	96.5	a 2'						
LBW		1.6	2.	.2	0.7	1.3	2.2	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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



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	#50 11.0		89.0
#100	3.4	7.6	96.6
LBW	1.1	2.3	98.9

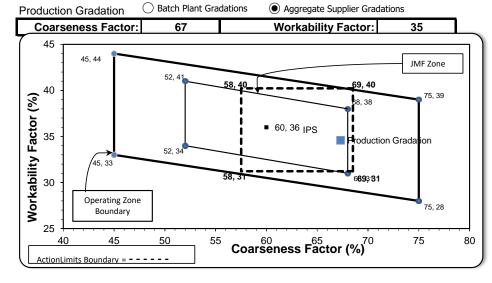


PLANT :	#:	P-102					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	S2M, 3500HP			
Dates Test R		6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1725	10.28	2.69	55.6			
26A	58-003	Stoneco	175	1.04	2.69	5.6			
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	100 100	0.0	100.0	100.0	0.0	0.0	
1"		99.7		100	0.0	100.0	99.8	0.2	0.2
3/4"		83.0	100	0.00	100.0	90.5	9.3	9.5	1
1/2"		45.0	99	.6	100.0	69.4	21.2	30.6	
3/8"		22.1	88	5.0	100.0	56.0	13.4	44.0	*N
#4		2.9	12	2.5	99.6	40.9	15.1	59.1	*A
#8		1.4	3.	.7	86.8	34.6	6.3	65.4	nor
#16		1.1	2.	.7	69.4	27.6	7.0	72.4	*%
#30		1.0	2.3		50.0	20.0	7.6	80.0	nor
#50		1.0	2.	2	24.9	10.3	9.7	89.7	*%
#100		1.0	2.	.1	7.0	3.4	6.9	96.6	a 2
LBW		0.9	1.	9	1.5	1.2	2.2	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.



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"	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	#50 6.8		93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

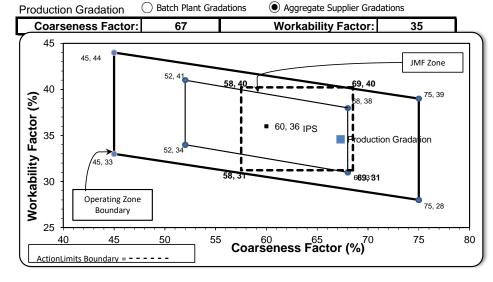
Approved By: n auf 1. Ball

PLANT	#:	P-103					Contractor:		
Sample Date	e:	6/12/23			Concrete Grade:	S2M, 3500HP			
Dates Test F	Represents:	6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1725	10.28	2.69	55.6			
26A	58-003	Stoneco	175	1.04	2.69	5.6			
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"	1	100.0	100).0	100.0	100.0	0.0	0.0	1
1"		99.7	100).0	100.0	99.8	0.2	0.2	
3/4"		83.0	100).0	100.0	90.5	9.3	9.5	
1/2"		45.0	99	.6	100.0	69.4	21.2	30.6	
3/8"		22.1	88	.0	100.0	56.0	13.4	44.0	*Max
#4		2.9	12	.5	99.6	40.9	15.1	59.1	*Any
#8		1.4	3.	7	86.8	34.6	6.3	65.4	nom. n
#16		1.1	2.	7	69.4	27.6	7.0	72.4	*% R
#30		1.0	2.3		50.0	20.0	7.6	80.0	nom. r
#50		1.0	2.	2.2		10.3	9.7	89.7	*% R
#100		1.0	2.		7.0	3.4	6.9	96.6	a 2" m
LBW		0.9	1.	9	1.5	1.2	2.2	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	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"	59.5	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

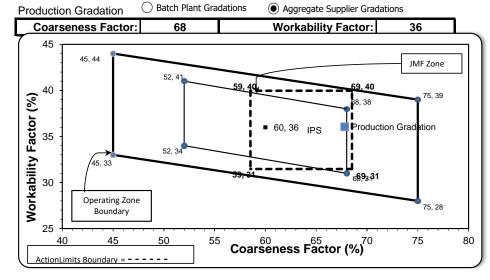
PLANT :	#:	14					Contractor:		
Sample Date):	6/12/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	Represents:	6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1700	10.13	2.69	54.7			
26A	58-003	Stoneco	200	1.19	2.69	6.4			
2NS	19-04	Schlegel	1210	7.26	2.67	38.9			
		Total Wt	3110	18.58		100.0	< Verify this n	umber is 100%	_
Sieve	(6AA	26	6A	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"	ç	99.7	100	0.0	100.0	99.8	0.2	0.2	
3/4"	8	83.0	100	0.0	100.0	90.7	9.1	9.3	
1/2"	4	45.0	99	9.6	100.0	69.9	20.8	30.1	
3/8"	4	22.1	88	3.0	100.0	56.6	13.3	43.4	*Maximum % F
#4		2.9	12	2.5	99.9	41.3	15.4	58.7	*Any two adjac
#8		1.4	3.	.7	90.1	36.1	5.2	63.9	nom. max., #100
#16		1.1		.7	69.4	27.8	8.3	72.2	*% Retained m
#30		1.0	2.	.3	44.5	18.0	9.8	82.0	nom. max., #100
#50		1.0	2.	.2	14.3	6.3	11.8	93.7	*% Retained m
#100		1.0	2.		2.7	1.7	4.5	98.3	a 2" max. size (r
LBW		0.9	1.	.9	0.2	0.7	1.0	99.3	



Builders Redi-Mix

30701 W. 10 Mile Rd. Suite 500 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 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:	64	
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"	59.2	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	#50 7.3		92.7
#100	#100 2.0		98.0
LBW	0.9	1.1	99.1

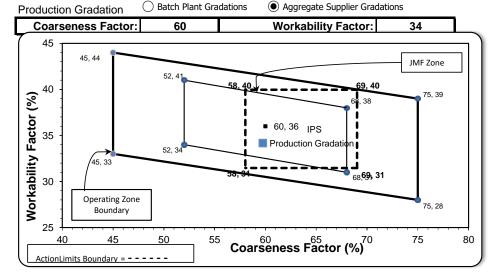
Approved By: Mart I. Ball

PLANT #	#:	12					Contractor:														
Sample Date	:	6/12/23			Concrete Grade:	S2M, 3500HP															
Dates Test R	epresents:	6/13/2023	through	6/19/2023			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	220	1.35	2.62	7.2															
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3	1														
		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	97.4	100).0	100.0	98.6	1.4	1.4													
3/4"		83.2	10	10	100	10	100	100	100	100		10		100	100).0	100.0	91.2	7.4	8.8	
1/2"		43.4	96	.2	100.0	70.0	21.2	30.0													
3/8"	:	26.6	88	.5	100.0	60.7	9.4	39.3													
#4		4.6	20	.9	96.7	42.9	17.7	57.1													
#8		2.2	5.	4	80.9	34.2	8.7	65.8													
#16		2.0	2.	5	65.6	27.7	6.5	72.3													
#30		1.8	1.	9	49.9	21.2	6.5	78.8													
#50		1.8	1.	7	26.3	11.7	9.5	88.3													
#100		1.7	1.		5.0	3.0	8.7	97.0													
LBW		1.4	1.	2	0.6	1.1	1.9	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 Product	ion 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

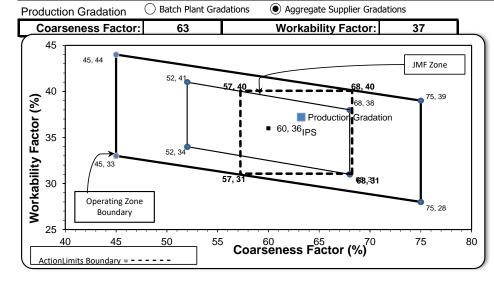
Approved By: Mary P. Ball

PLANT #	#:	20					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			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	63-92	Grange Hall	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"	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	99.3	100).0	100.0	99.6	0.4	0.4	
3/4"		83.4	100).0	100.0	91.3	8.3	8.7	
1/2"		44.1	96	.8	100.0	70.5	20.8	29.5	
3/8"	:	26.3	84	.1	100.0	60.3	10.2	39.7	*N
#4		5.6	17	.4	98.0	44.2	16.1	55.8	*A
#8		3.0	5.	2	86.1	37.2	7.0	62.8	non
#16		2.5	2.6		69.9	30.1	7.1	69.9	*%
#30		2.4	1.9		45.8	20.2	10.0	79.8	nor
#50		2.3	1.	1.6		8.8	11.3	91.2	*%
#100		2.1		1.5		2.6	6.2	97.4	a 2'
LBW		1.7	1.	3	0.6	1.2	1.4	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 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:	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"	93.3	6.7	6.7
1/2"	70.6	22.6	29.4
3/8"	59.6	11.0	40.4
#4	43.9	15.7	56.1
#8	35.6	8.4	64.4
#16	28.4	7.2	71.6
#30	#30 19.4		80.6
#50	#50 7.5		92.5
#100	0.9	6.6	99.1
LBW	0.9	0.1	99.1

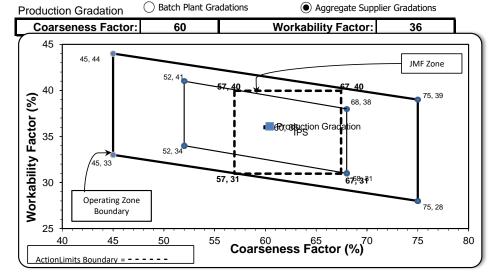
Approved By: n auf 1. Ball

Sample Date: 6/1		p11					Contractor:		
						S2M, 3500HP			
		6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1820	11.13	2.62	59.7			
26A	71-47	Presque Isle	0	0.00	2.62	0.0			
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	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	98.6	10	0.0	100.0	99.2	0.8	0.8	
3/4"		83.0	10	0.0	100.0	89.9	9.3	10.1	
1/2"		50.6	96	5.2	100.0	70.5	19.3	29.5	
3/8"	:	35.3	88	5.5	100.0	61.4	9.1	38.6	*Ma
#4		7.4	20).9	96.4	43.3	18.1	56.7	*Any
#8		3.4	5	.4	84.5	36.1	7.2	63.9	nom.
#16		2.8	2	.5	69.1	29.5	6.6	70.5	*% F
#30		2.7	1	.9	48.8	21.3	8.2	78.7	nom.
#50		2.5	1	.7	23.0	10.8	10.5	89.2	*% F
#100		2.4	1	.4	6.5	4.1	6.7	95.9	a 2" n
LBW		1.9	1	.2	1.0	1.5	2.5	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.



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

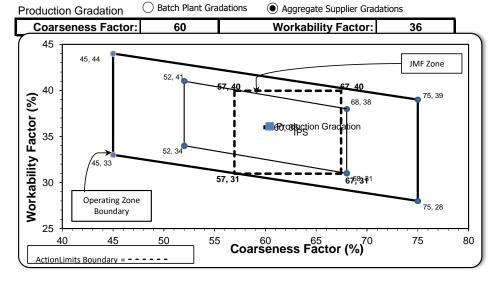
Approved By: Mart 1. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1820	11.13	2.62	59.7			
26A	71-47	Presque Isle	0	0.00	2.62	0.0			
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	98.6	100	0.0	100.0	99.2	0.8	0.8	1
3/4"		83.0	100	0.0	100.0	89.9	9.3	10.1	
1/2"		50.6	96	5.2	100.0	70.5	19.3	29.5	
3/8"	:	35.3	88	5.5	100.0	61.4	9.1	38.6	*
#4		7.4	20	0.9	96.4	43.3	18.1	56.7	*
#8		3.4	5.	.4	84.5	36.1	7.2	63.9	nc
#16		2.8	2.	.5	69.1	29.5	6.6	70.5	*
#30		2.7	1.	.9	48.8	21.3	8.2	78.7	nc
#50		2.5	1.	7	23.0	10.8	10.5	89.2	*
#100		2.4	1.		6.5	4.1	6.7	95.9	a 2
LBW		1.9	1.	.2	1.0	1.5	2.5	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.



Intial Producti	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

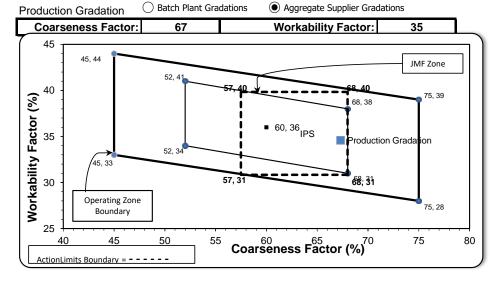
Approved By: Mart P. Ball

PLANT #	#:	P-35					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1725	10.28	2.69	55.6			
26A	58-003	Stoneco	175	1.04	2.69	5.6			
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"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		99.7	100	0.0	100.0	99.8	0.2	0.2	1
3/4"		83.0	100	0.0	100.0	90.5	9.3	9.5	1
1/2"		45.0	99	.6	100.0	69.4	21.2	30.6	1
3/8"		22.1	88	.0	100.0	56.0	13.4	44.0	1
#4		2.9	12	5	99.6	40.9	15.1	59.1	1
#8		1.4	3.	7	86.8	34.6	6.3	65.4	1
#16		1.1	2.	7	69.4	27.6	7.0	72.4	1
#30		1.0	2.	3	50.0	20.0	7.6	80.0	1
#50		1.0	2.	2	24.9	10.3	9.7	89.7	
#100		1.0	2.	1	7.0	3.4	6.9	96.6	
LBW		0.9	1.	9	1.5	1.2	2.2	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 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					

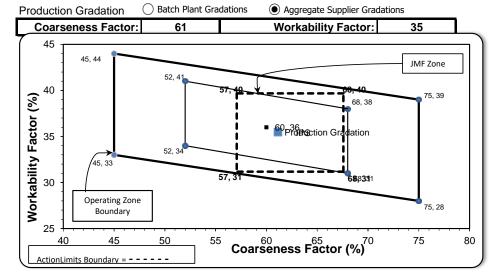
Approved By: Mart P. Ball

PLANT #	#:	P-36					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			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	250	1.53	2.62	8.2			
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	Α	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	97.4	100	0.0	100.0	98.6	1.4	1.4	
3/4"		83.2	100	0.0	100.0	91.2	7.4	8.8	1
1/2"		43.4	96	.2	100.0	70.0	21.2	30.0	
3/8"	:	26.6	88	.5	100.0	60.6	9.4	39.4	*Ma
#4		4.6	20	.9	98.0	42.7	17.9	57.3	*Ar
#8		2.2	5.	4	86.1	35.5	7.2	64.5	nom
#16		2.0	2.	5	69.9	28.8	6.7	71.2	*%
#30		1.8	1.	9	45.8	19.1	9.6	80.9	nom
#50		1.8	1.	7	18.3	8.3	10.8	91.7	*%
#100		1.7	1.	4	3.5	2.4	5.9	97.6	a 2"
LBW		1.4	1.	2	0.6	1.1	1.3	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	seness Factor:	62						
Worl	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					

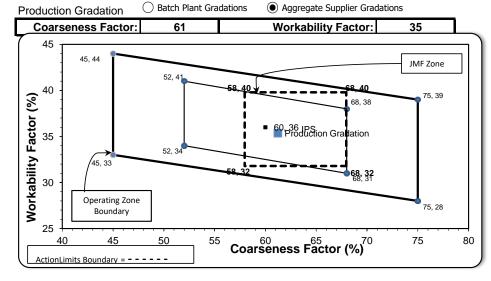
Approved By: Mart 1. Ball

PLANT #	#:	P-39					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/13/2023	through	6/19/2023			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	230	1.41	2.62	7.5			
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
1.5"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		97.8	100	0.0	100.0	98.9	1.1	1.1	
3/4"		79.8	100	0.0	100.0	89.6	9.3	10.4	
1/2"		41.1	97	.0	100.0	69.5	20.1	30.5	
3/8"		25.0	87	.0	100.0	60.4	9.0	39.6	*Ma
#4		5.8	22	.2	95.7	43.9	16.5	56.1	*Ar
#8		2.6	5.	9	81.9	35.3	8.5	64.7	nom
#16		2.2	3.	3	66.9	28.8	6.5	71.2	*%
#30		2.0	2.	8	50.2	21.8	7.0	78.2	nom
#50		2.0	2.	6	25.0	11.5	10.3	88.5	*%
#100		1.9	2.		7.5	4.2	7.2	95.8	a 2"
LBW		1.6	2.	2	1.3	1.5	2.7	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.



	tion Sample (IPS	<i>,</i>	
	seness Factor:	63	
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"	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

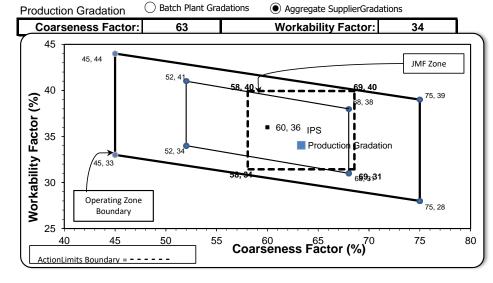
Approved By: Mart 1. Ball

PLANT #	#:	P-O2					Contractor:		
Sample Date	:	6/12/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		6/13/2023	through	6/19/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1720	10.52	2.62	56.4			
26A	71-47	Presque Isle	100	0.61	2.62	3.3			
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	1
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"	9	97.4	100	0.0	100.0	98.5	1.5	1.5	
3/4"	i	83.2	100	0.0	100.0	90.5	8.0	9.5	
1/2"	4	43.4	96	.2	100.0	68.0	22.6	32.0	
3/8"	:	26.6	88	.5	100.0	58.2	9.7	41.8	
#4		4.6	20	.9	96.7	42.3	16.0	57.7	
#8		2.2	5.	4	80.9	34.0	8.2	66.0	n
#16		2.0	2.	5	65.6	27.7	6.4	72.3	
#30		1.8	1.	9	49.9	21.2	6.5	78.8	n
#50		1.8	1.	7	26.3	11.7	9.5	88.3	,
#100		1.7	1.		5.0	3.0	8.7	97.0	а
LBW		1.4	1.	2	0.6	1.1	2.0	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 Producti	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