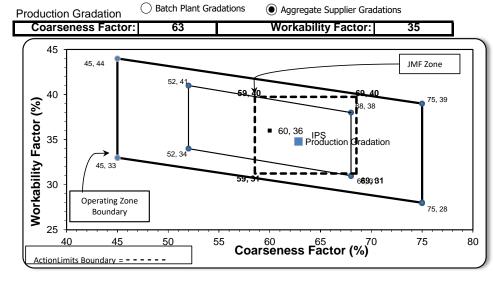
PLANT :	#:	P-101					Contractor:		
Sample Date):	5/2/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/3/2022	through	5/9/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1550	9.48	2.62	50.7			
26A	71-47	Presque Isle	275	1.68	2.62	9.0			
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	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"		99.2	100).0	100.0	99.6	0.4	0.4	1
3/4"		85.6	100).0	100.0	92.7	6.9	7.3	
1/2"		42.8	96	.4	100.0	70.7	22.0	29.3	
3/8"		21.8	85	.6	100.0	59.0	11.6	41.0	*Ma
#4		2.9	18	.0	98.5	42.7	16.3	57.3	*Ar
#8		1.6	4.	9	83.3	34.8	8.0	65.2	nom
#16		1.4	2.	5	68.3	28.4	6.4	71.6	*%
#30		1.3	2.	2	53.3	22.3	6.1	77.7	nom
#50		1.3	2.	0	29.2	12.6	9.7	87.4	*%
#100		1.3	1.	8	7.3	3.8	8.8	96.2	a 2"
LBW		1.2	1.	6	0.6	1.0	2.8	99.0	T



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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 Product	Initial Production Sample (IPS)									
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							

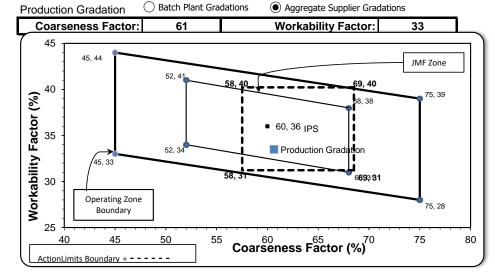
Approved By: Mary P. Ball

PLANT :	#:	P-102					Contractor:		
Sample Date	:	5/2/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/3/2022	through	5/9/2022			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	Α	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"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"		85.9	100	0.0	100.0	92.5	7.5	7.5	1
1/2"		48.7	99	.8	100.0	72.7	19.8	27.3	
3/8"		25.8	89	.6	100.0	59.7	13.0	40.3	*1
#4		5.4	11	.7	98.5	41.9	17.7	58.1	*/
#8		1.6	3.	9	83.5	33.5	8.5	66.5	noi
#16		1.2	2.	7	67.7	27.1	6.4	72.9	*0
#30		1.0	2.	3	51.4	20.6	6.4	79.4	noi
#50		1.0	2.	1	27.5	11.3	9.3	88.7	*0
#100		0.8	2.		7.6	3.5	7.8	96.5	a 2
LBW		0.6	1.	9	0.9	0.8	2.7	99.2	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.



	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"	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

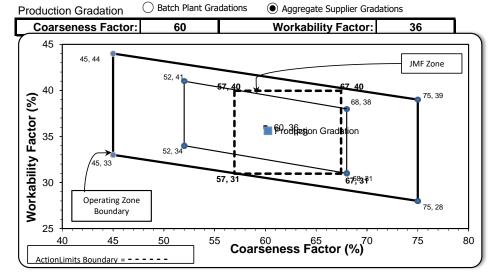
Approved By: Mart 1. Ball

PLANT #	#:	P-32					Contractor:	
Sample Date	:	5/2/22			Concrete Grade:	S2M, 3500HP		
Dates Test R	epresents:	5/3/2022	through	5/9/2022			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	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	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"		98.7	100).0	100.0	99.4	0.6	0.6
3/4"		85.9	100).0	100.0	93.0	6.4	7.0
1/2"		49.1	93	.6	100.0	74.0	19.0	26.0
3/8"	:	26.0	80	.6	100.0	61.2	12.8	38.8
#4		5.1	23	.5	95.5	43.4	17.8	56.6
#8		2.9	7.	5	82.9	35.6	7.8	64.4
#16		2.5	3.	5	68.2	29.1	6.5	70.9
#30		2.4	2.	6	49.6	21.5	7.6	78.5
#50		2.3	2.4	4	24.2	11.1	10.3	88.9
#100		2.2	2.	3	7.1	4.2	7.0	95.8
LBW		1.9	2.	0	1.6	1.8	2.4	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 Producti	on Sample (IPS	5)	_
Coars	seness 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

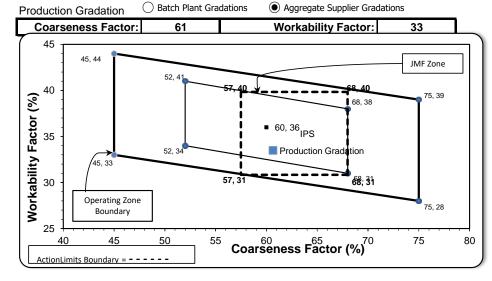
Approved By: Mart 1. Ball

PLANT :	#:	P-35					Contractor:	
Sample Date	:	5/2/22			Concrete Grade:	S2M, 3500HP		
Dates Test R	epresents:	5/3/2022	through	5/9/2022			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	100.0	100.0	0.0	0.0
1"	1	100.0	100).0	100.0	100.0	0.0	0.0
3/4"		85.9	100	0.0	100.0	92.5	7.5	7.5
1/2"		48.7	99.	.8	100.0	72.7	19.8	27.3
3/8"		25.8	89.	.6	100.0	59.7	13.0	40.3
#4		5.4	11.	.7	98.5	41.9	17.7	58.1
#8		1.6	3.9	9	83.5	33.5	8.5	66.5
#16		1.2	2.	7	67.7	27.1	6.4	72.9
#30		1.0	2.3	3	51.4	20.6	6.4	79.4
#50		1.0	2.	1	27.5	11.3	9.3	88.7
#100		0.8	2.0		7.6	3.5	7.8	96.5
LBW		0.6	1.9	9	0.9	0.8	2.7	99.2



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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.



Coarse	_		
	eness Factor:	63	
Worka	bility 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

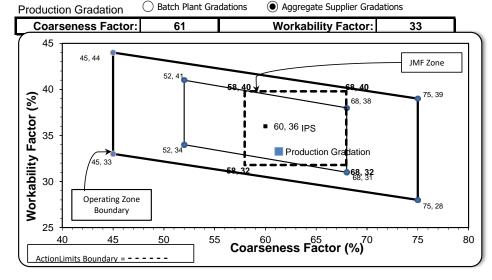
Approved By: Mart P. Ball

PLANT #	#:	P-39					Contractor:		
Sample Date	:	5/2/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/3/2022	through	5/9/2022			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	250	1.53	2.62	8.2			
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	
1.5"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		99.2	100	0.0	100.0	99.6	0.4	0.4	
3/4"		85.6	100	0.0	100.0	92.7	6.9	7.3	
1/2"		42.8	96.	.4	100.0	70.6	22.0	29.4	
3/8"		21.8	85.	.6	100.0	59.1	11.6	40.9	*M
#4		2.9	18.	.0	96.4	42.5	16.6	57.5	*Ar
#8		1.6	4.9	9	78.2	33.3	9.2	66.7	nom
#16		1.4	2.	5	62.2	26.4	6.9	73.6	*%
#30		1.3	2.2	2	46.2	19.8	6.6	80.2	nom
#50		1.3	2.0	0	25.1	11.1	8.7	88.9	*%
#100		1.3	1.8		8.4	4.3	6.9	95.7	a 2"
LBW		1.2	1.0	6	1.0	1.2	3.1	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 Producti	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"	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

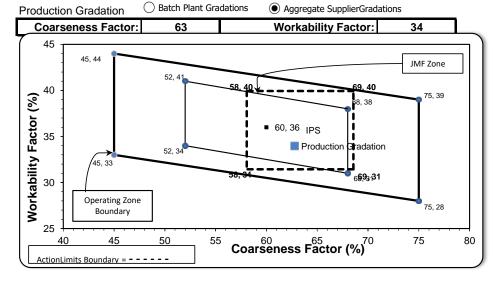
Approved By: Mary 1. Ball

PLANT #	#:	P-O2					Contractor:		
Sample Date	:	5/2/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/3/2022	through	5/9/2022			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	350	2.14	2.62	11.5			
2NS	63-115	Ray 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"	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	99.5	100	0.0	100.0	99.8	0.2	0.2	
3/4"		83.8	100	0.0	100.0	92.3	7.5	7.7	1
1/2"		37.4	93	.6	100.0	69.5	22.8	30.5	
3/8"		17.5	80	.6	100.0	58.6	11.0	41.4	*
#4		3.2	23	.5	96.4	43.7	14.8	56.3	*/
#8		2.4	7.	5	78.0	34.0	9.8	66.0	no
#16		2.1	3.	5	61.3	26.5	7.4	73.5	*(
#30		2.0	2.	6	45.7	20.0	6.5	80.0	no
#50		2.0	2.	4	23.8	11.0	9.0	89.0	*0
#100		1.9	2.		4.5	3.0	8.0	97.0	a 2
LBW		1.5	2.	0	0.9	1.3	1.7	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., 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	tion Sample (IPS	5)	_
Coar	seness Factor:	63	
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"	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: Nat 1. Ball