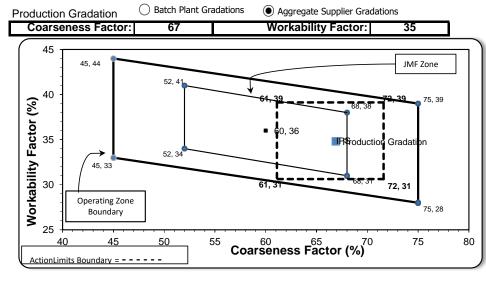
PLANT :	#:	P-101					Contractor:						
Sample Date	):	9/5/22			Concrete Grade:	P1M, 3500HP							
Dates Test Represents:		9/6/2022	through	9/12/2022			MDOT No.:						
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution							
CA	71-47	Presque Isle	1070	6.54	2.62	34.9							
IA	71-47	Presque Isle	800	4.89	2.62	26.1							
2NS	75-051	Mid Michigan	1200	7.23	2.66	39.1							
		Total Wt	3070	18.67		100.0	< Verify this n	umber is 100%	_				
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained					
2"	1	100.0	100	).0	100.0	100.0	0.0	0.0	1				
1.5"		98.7	100	0.0	100.0	99.5	0.5	0.5					
1"		47.5	100	).0	100.0	81.7	17.8	18.3					
3/4"		12.4	98	98	98		98	.5	100.0	69.1	12.6	30.9	1
1/2"		3.0	83	.2	100.0	61.8	7.3	38.2					
3/8"		2.0	63	.7	100.0	56.4	5.4	43.6	*1				
#4		1.6	17	.3	98.9	43.7	12.7	56.3	*/				
#8		1.4	4.	5	84.8	34.8	8.9	65.2	noi				
#16		1.4	2.	7	69.5	28.4	6.4	71.6	*9				
#30		1.3	2.	3	53.6	22.0	6.4	78.0	no				
#50		1.2	2.	1	27.2	11.6	10.4	88.4	*9				
#100		1.1	1.		8.0	4.0	7.6	96.0	a 2				
LBW		0.9	1.	7	1.3	1.3	2.7	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., 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	S)	_
Coars	eness Factor:	66	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	84.3	15.3	15.7
3/4"	74.8	9.6	25.2
1/2"	64.3	10.4	35.7
3/8"	56.8	7.5	43.2
#4	43.0	13.8	57.0
#8	34.9	8.1	65.1
#16	26.4	8.5	73.6
#30	19.9	6.5	80.1
#50	10.4	9.5	89.6
#100	3.4	7.0	96.6
LBW	1.2	2.2	98.8

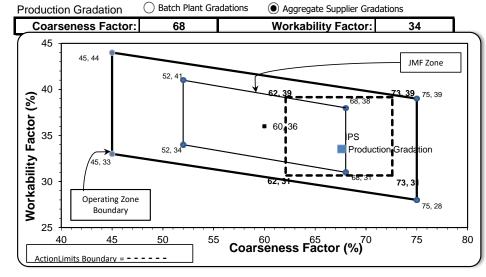
Approved By: Mart 1. Ball

PLANT #: P-102						Contractor:					
Sample Date	):	9/5/22			Concrete Grade:	P1M, 3500HP					
Dates Test Represents:		9/6/2022	through	9/12/2022			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
CA	58-003	Stoneco	1370	8.16	2.69	43.9					
IA	58-003	Stoneco	550	3.28	2.69	17.6					
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5					
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	_		
Sieve		CA	1/	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"		63.4	100	10	10	0.0	100.0	83.9	16.1	16.1	
3/4"		31.8	100	100.0	100.0	70.1 13.9	13.9	29.9			
1/2"		14.1	91	.4	100.0	60.8	9.3	39.2			
3/8"		8.1	74	.1	100.0	55.1	5.7	44.9	*		
#4		2.9	18	.4	99.1	42.6	12.4	57.4	*		
#8		1.9 4.2		2	83.1	33.5	9.1	66.5	no		
#16		1.4	.4 2.6		65.4	26.2	7.3	73.8	*(		
#30		1.2 2.0		0	45.8	18.5	7.7	81.5	no		
#50		1.1	1.	8	22.8	9.6	8.9	90.4	*0		
#100		1.1	1.	6	7.0	3.5	6.1	96.5	a 2		
LBW		1.2	1.	4	1.4	1.3	2.1	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.



Intial Production	on Sample (IPS	5)	_
Coars	eness Factor:	67	
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"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	8.1	13.4	91.9
#100	2.2	5.9	97.8
LBW	1.4	0.8	98.6

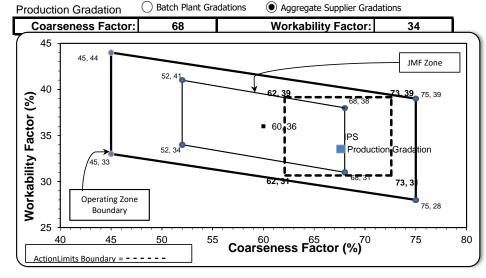
Approved By: Mart 1. Ball

PLANT #	#:	P-103					Contractor:			
Sample Date	):	9/5/22			Concrete Grade:	P1M, 3500HP				
Dates Test Represents:		9/6/2022	through	9/12/2022			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution				
CA	58-003	Stoneco	1370	8.16	2.69	43.9				
IA	58-003	Stoneco	550	3.28	2.69	17.6				
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5				
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	_	
Sieve		CA	1/	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"		63.4	100	10	0.0	100.0	83.9	16.1	16.1	
3/4"		31.8	100	0.0	100.0	70.1	13.9	29.9		
1/2"		14.1	91	.4	100.0	60.8	9.3	39.2		
3/8"		8.1	74	.1	100.0	55.1	5.7	44.9	*	
#4		2.9	18	.4	99.1	42.6	12.4	57.4	*	
#8		1.9 4.2		2	83.1	33.5	9.1	66.5	nc	
#16		1.4 2.6		6	65.4	26.2	7.3	73.8	*	
#30		1.2 2.0		0	45.8	18.5	7.7	81.5	nc	
#50		1.1	1.	8	22.8	9.6	8.9	90.4	*	
#100		1.1	1.	6	7.0	3.5	6.1	96.5	a :	
LBW		1.2	1.	4	1.4	1.3	2.1	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.



Intial Producti	on Sample (IPS	5)	-
Coars	seness Factor:	67	
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"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	8.1	13.4	91.9
#100	2.2	5.9	97.8
LBW	1.4	0.8	98.6

Approved BY: May 1. Ball

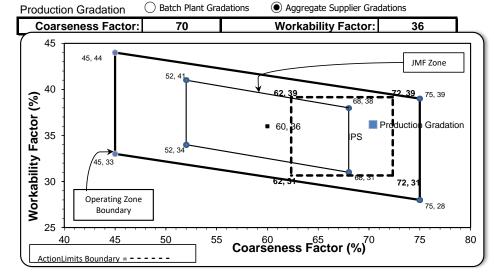
PLANT #	<b>#:</b>	P-14					Contractor:		
Sample Date	:	9/5/22			Concrete Grade	: P1M, 3500HP			
Dates Test R	epresents:	9/6/2022	through	9/12/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	19-55	Schlegel	1200	7.20	2.67	38.5			Bui
		Total Wt	3120	18.64		100.0	< Verify this n	umber is 100%	REI Finish Fi
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	Builders I 30701 W.
2"	1	00.0	100	).0	100.0	100.0	0.0	0.0	Suite 500
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	Farmingto
1"	(	63.4	100	0.0	100.0	83.9	16.1	16.1	
3/4"		31.8	100	0.0	100.0	70.1	13.9	29.9	
1/2"		14.1	91	.4	100.0	60.8	9.3	39.2	
3/8"		8.1	74	.1	100.0	55.1	5.7	44.9	*Maximum % Retained must be
#4		2.9	18	.4	100.0	43.0	12.1	57.0	*Any two adjacent sieves must e
#8		1.9	4.	2	90.0	36.2	6.8	63.8	nom. max., #100 and #200 sieves
#16		1.4	2.	6	68.5	27.4	8.8	72.6	*% Retained must be at least 4%
#30		1.2	2.	0	44.8	18.1	9.3	81.9	nom. max., #100 and #200 sieves
#50		1.1	1.	8	15.8	6.9	11.2	93.1	*% Retained must be at least 8%
#100		1.1	1.		3.1	2.0	4.9	98.0	a 2" max. size (nom. Max. 1.5") ag
LBW		1.2	1.	4	0.4	0.9	1.0	99.1	



Redi-Mix

10 Mile Rd. on Hills, MI 48336

above the 3/8" sieve. equal 10% except max., es. 1% for each sieve except max., es. 3% for the 1" sieve when aggregate is used.



Intial Production	on Sample (IPS	)	-
Coars	eness Factor:	67	
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"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	8.1	13.4	91.9
#100	2.2	5.9	97.8
LBW	1.4	0.8	98.6

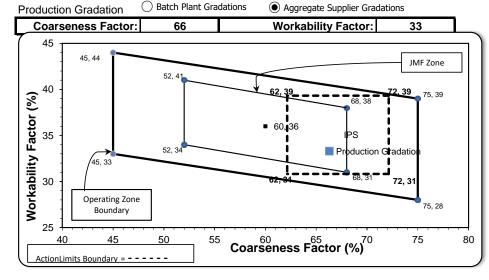
Approved By: Mary 1. Ball

PLANT #	<b>#:</b>	P-12					Contractor:		
Sample Date	:	9/5/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	9/6/2022	through	9/12/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	970	5.93	2.62	31.6			
IA	71-47	Presque Isle	850	5.20	2.62	27.7			
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	_
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	9	98.5	100	).0	100.0	99.5	0.5	0.5	1
1"	ļ	53.2	100	0.0	100.0	85.2	14.3	14.8	
3/4"	:	20.2	97	.3	100.0	74.0	11.2	26.0	1
1/2"		9.5	66	.8	100.0	62.2	11.8	37.8	
3/8"		7.9	45	.4	100.0	55.8	6.4	44.2	*N
#4		3.7	11	.6	96.4	43.6	12.2	56.4	*A
#8		2.5		3	77.6	33.3	10.3	66.7	nor
#16		2.3	3 2.3		61.1	26.2	7.1	73.8	*%
#30		2.2 2.1		1	46.8	20.3	5.9	79.7	nor
#50		2.2	2.	0	26.2	11.9	8.4	88.1	*%
#100		2.1	1.		6.8	4.0	8.0	96.0	a 2
LBW		1.7	1.	6	0.8	1.3	2.7	98.7	



Superior Materials, LLC 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	)	-
Coars	eness Factor:	67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.0	9.8	26.0
1/2"	63.7	10.3	36.3
3/8"	56.4	7.3	43.6
#4	43.0	13.4	57.0
#8	35.1	7.9	64.9
#16	29.0	6.1	71.0
#30	20.9	8.0	79.1
#50	8.1	12.8	91.9
#100	1.6	6.5	98.4
LBW	0.9	0.8	99.1

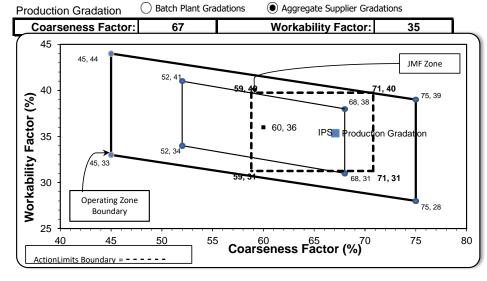
Approved By: Mart 1. Ball

PLANT #	<b>#:</b>	P-32					Contractor:		
Sample Date	:	9/5/22			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		9/6/2022	through	9/12/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	900	5.50	2.62	29.3			
IA	71-47	Presque Isle	920			30.0			
2NS	95-013	Smelter Bay	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	98.5		100	0.0	100.0	99.6	0.4	0.4	
1"	:	53.2	100 97	0.0	100.0	86.3	13.3	13.7	
3/4"	:	20.2		97	.3	100.0	75.8	10.5	24.2
1/2"		9.5	66	.8	100.0	63.5	12.3	36.5	
3/8"		7.9	45	.4	100.0	56.6	6.9	43.4	
#4		3.7	11	.6	95.9	43.6	13.0	56.4	
#8		2.5	3.	3	82.6	35.4	8.3	64.6	n
#16		2.3	2.	3	67.5	28.8	6.5	71.2	
#30		2.2	2.	1	47.6	20.7	8.2	79.3	n
#50		2.2	2.	0	23.7	10.9	9.8	89.1	
#100		2.1	1.	9	7.5	4.2	6.7	95.8	а
LBW		1.7	1.	6	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.



Intial Product	on Sample (IPS	5)	-
Coars	seness Factor:	65	
Worl	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.0	0.6	0.6
1"	84.0	15.3	16.0
3/4"	73.5	10.5	26.5
1/2"	65.2	8.2	34.8
3/8"	58.2	7.1	41.8
#4	44.1	14.1	55.9
#8	35.5	8.6	64.5
#16	29.1	6.4	70.9
#30	21.9	7.3	78.1
#50	9.6	12.2	90.4
#100	2.6	7.1	97.4
LBW	1.0	1.6	99.0

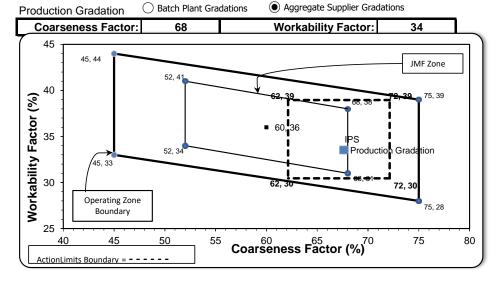
Approved By: Mary P. Ball

PLANT #: P-		P-35					Contractor:		
Sample Date	e:	9/5/22			Concrete Grade:	P1M, 3500HP			
Dates Test F	Represents:	9/6/2022	through	9/12/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5			
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	14	N .	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	]
2"		100.0	100	).0	100.0	100.0	0.0	0.0	
1.5"		100.0	100	).0	100.0	100.0	0.0	0.0	
1"		63.4	100	).0	100.0	83.9	16.1	16.1	
3/4"		31.8	100	).0	100.0	70.1	13.9	29.9	1
1/2"		14.1	91	.4	100.0	60.8	9.3	39.2	
3/8"		8.1	74	.1	100.0	55.1	5.7	44.9	*Ma
#4		2.9	18	.4	99.1	42.6	12.4	57.4	*Ar
#8		1.9 4.2		2	83.1	33.5	9.1	66.5	nom
#16		1.4	2.6		65.4	26.2	7.3	73.8	*%
#30		1.2	2.	0	45.8	18.5	7.7	81.5	nom
#50		1.1	1.	8	22.8	9.6	8.9	90.4	*%
#100		1.1	1.		7.0	3.5	6.1	96.5	a 2"
LBW		1.2	1.	4	1.4	1.3	2.1	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.



Intial Production Sample (IPS)							
Coarse	eness Factor:	67					
Worka	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"	86.9	13.1	13.1				
3/4"	76.1	10.8	23.9				
1/2"	63.7	12.4	36.3				
3/8"	56.2	7.5	43.8				
#4	43.2	13.0	56.8				
#8	34.7	8.5	65.3				
#16	27.5	7.2	72.5				
#30	20.6	7.0	79.4				
#50	9.0	11.6	91.0				
#100	2.1	6.9	97.9				
LBW	1.0	1.1	99.0				

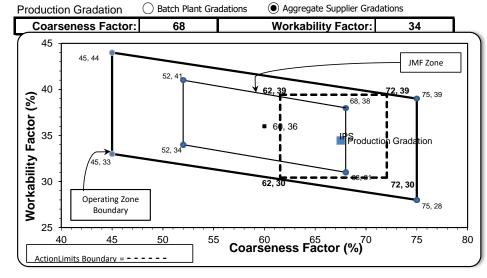
Approved By: Mart 1. Ball

PLANT #	<b>#:</b>	P-36					Contractor:		
Sample Date	:	9/5/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	9/6/2022	through	9/12/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	900	5.50	2.62	29.3			
IA	71-47	Presque Isle	970	5.93	2.62	31.6			
2NS	63-92	Grange Hall	1200	7.26	2.65	39.1			
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100	).0	100.0	100.0	0.0	0.0	
1.5"		98.5	100	0.0	100.0	99.6	0.4	0.4	
1"		53.2	100	0.0	100.0	86.3	13.3	13.7	1
3/4"	:	20.2	97	.3	100.0	75.8	10.5	24.2	
1/2"		9.5	66	.8	100.0	63.0	12.8	37.0	
3/8"		7.9	45	.4	100.0	55.7	7.2	44.3	*N
#4		3.7	11.6		97.7	42.9	12.8	57.1	*/
#8	2.5		3.3		83.6	34.5	8.5	65.5	nor
#16	2.3		2.	3	68.9	28.3	6.1	71.7	*9
#30	2.2		2.	1	51.0	21.2	7.1	78.8	nor
#50	2.2		2.	0	22.6	10.1	11.1	89.9	*9
#100		2.1	1.		3.9	2.7	7.4	97.3	a 2
LBW		1.7	1.	6	0.6	1.2	1.5	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 Production	on Sample (IPS	5)	_
Coars	eness Factor:	67	
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"	85.0	15.0	15.0
3/4"	72.1	12.9	27.9
1/2"	64.5	7.6	35.5
3/8"	56.5	8.0	43.5
#4	42.7	13.8	57.3
#8	34.9	7.8	65.1
#16	29.0	5.9	71.0
#30	21.0	8.0	79.0
#50	8.2	12.8	91.8
#100	1.6	6.5	98.4
LBW	0.7	0.9	99.3

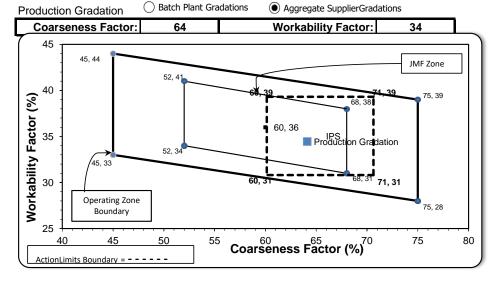
Approved By: Mart 1. Ball

PLANT :	#:	P-39					Contractor:		
Sample Date	):	9/5/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	9/6/2022	through	9/12/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1020	6.24	2.62	33.2			
IA	71-47	Presque Isle	800	4.89	2.62	26.1			
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	
Sieve		СА	1/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		98.7	100	0.0	100.0	99.6	0.4	0.4	
1"		47.5	100	0.0	100.0	82.6	17.0	17.4	
3/4"		12.4	98	8.5	100.0	70.5	12.1	29.5	
1/2"		3.0	83	3.2	100.0	63.4	7.1	36.6	
3/8"		2.0	63	8.7	100.0	58.0	5.4	42.0	*
#4	1.6		17.3		96.2	44.2	13.8	55.8	+
#8		1.4		.5	80.6	34.5	9.8	65.5	no
#16		1.4	1.4 2.7		65.9	28.0	6.5	72.0	+
#30		1.3	2.	.3	50.9	21.8	6.2	78.2	no
#50		1.2	2.	.1	27.6	12.2	9.6	87.8	*
#100		1.1	1.		8.4	4.3	7.9	95.7	a :
LBW		0.9	1.	.7	1.6	1.4	2.9	98.6	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)							
Coars	eness Factor:	65						
Work	ability Factor:	35						
Sieve	Cumulative	%	Cumulative					
Sleve	% Passing	Retained	% Retained					
2"	100.0	0.0	0.0					
1.5"	99.6	0.4	0.4					
1"	83.9	15.7	16.1					
3/4"	74.1	9.8	25.9					
1/2"	64.3	9.7	35.7					
3/8"	57.5	6.8	42.5					
#4	44.5	13.1	55.5					
#8	35.1	9.4	64.9					
#16	27.9	7.2	72.1					
#30	21.7	6.2	78.3					
#50	12.6	9.1	87.4					
#100	3.5	9.1	96.5					
LBW	1.2	2.4	98.8					

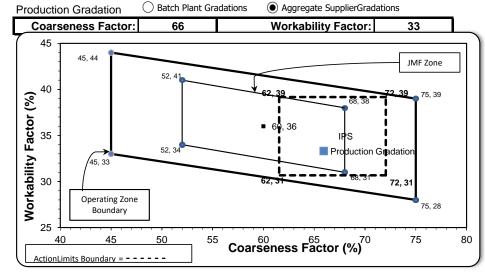
Approved By: Mart P. Ball

PLANT #: P-O2						Contractor:			
Sample Date	e:	9/5/22			Concrete Grade:	P1M, 3500HP			
Dates Test R		9/6/2022	through	9/12/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	950	5.81	2.62	30.9			
IA	71-47	Presque Isle	870	5.32	2.62	28.3			
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	_
Sieve		CA	I/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"		98.5	100	0.0	100.0	99.5	0.5	0.5	1
1"		53.2	10	0.0	100.0	85.5	14.0	14.5	
3/4"	:	20.2	97	.3	100.0	74.5	11.0	25.5	1
1/2"		9.5	66	5.8	100.0	62.6	12.0	37.4	
3/8"		7.9	45	5.4	100.0	56.0	6.6	44.0	*
#4		3.7	11	.6	96.4	43.7	12.3	56.3	*.
#8		2.5	3.	.3	77.6	33.3	10.4	66.7	no
#16		2.3	2.	.3	61.1	26.2	7.1	73.8	*
#30		2.2	2.	.1	46.8	20.3	5.9	79.7	no
#50		2.2	2.	0	26.2	11.9	8.4	88.1	*(
#100		2.1	1.	.9	6.8	4.0	8.0	96.0	a 2
LBW		1.7	1.	.6	0.8	1.3	2.7	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., nom. max., #100 and #200 sieves.
\*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
\*% Retained must be at least 8% for the 1" sieve when 12" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)							
Coars	eness Factor:	67					
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"	85.0	15.0	15.0				
3/4"	72.3	12.7	27.7				
1/2"	64.5	7.8	35.5				
3/8"	56.5	8.0	43.5				
#4	42.7	13.8	57.3				
#8	34.9	7.8	65.1				
#16	29.0	5.9	71.0				
#30	21.0	8.0	79.0				
#50	8.2	12.8	91.8				
#100	1.6	6.5	98.4				
LBW	0.7	0.9	99.3				

Approved By: Mart 1. Ball