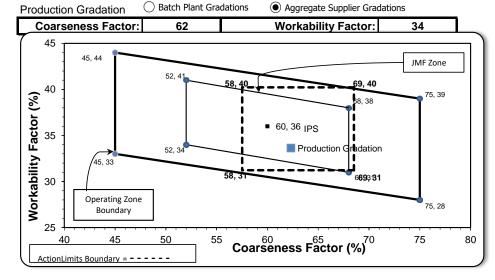
PLANT :	#:	P-102					Contractor:		
Sample Date	•:	9/27/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/28/2021	through	10/4/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1600	9.53	2.69	51.6			
26A	58-003	Stoneco	290	1.73	2.69	9.4			
2NS	63-114	Highland	1210	7.32	2.65	39.0			
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_
Sieve	e	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"	ç	99.8	10	0.0	100.0	99.9	0.1	0.1	1
3/4"	8	32.0	10	0.0	100.0	90.7	9.2	9.3	1
1/2"	2	42.5	99	9.5	100.0	70.3	20.4	29.7	
3/8"	2	22.1	87	7.7	100.0	58.6	11.6	41.4	*
#4		4.4	8	.0	98.9	41.6	17.0	58.4	*.
#8		1.5	2	.4	83.6	33.6	8.0	66.4	no
#16		0.8	1	.7	66.1	26.4	7.3	73.6	*
#30		0.7	1	.5	47.2	18.9	7.4	81.1	no
#50		0.6	1	.4	21.3	8.8	10.2	91.2	*
#100		0.6	1	.4	4.6	2.2	6.5	97.8	аź
LBW		0.6	1	.3	0.9	0.8	1.5	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.



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					

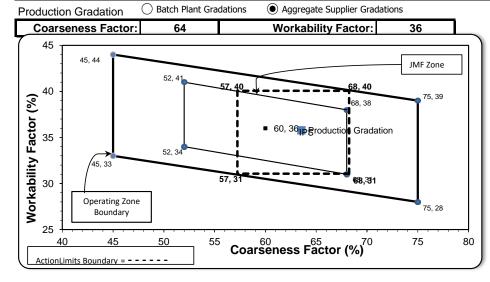
Approved By: Mart 1. Ball

PLANT #	<b>#:</b>	P-20					Contractor:		
Sample Date:	:	9/27/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/28/2021	through	10/4/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	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	00.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"	1	98.4	100	0.0	100.0	99.2	0.8	0.8	
3/4"		85.0	100	0.0	100.0	92.1	7.0	7.9	
1/2"		41.6	97	7.7	100.0	69.2	22.9	30.8	
3/8"	:	24.0	85	5.7	100.0	59.2	10.0	40.8	4
#4		3.4	17	<b>.</b> 9	97.6	43.0	16.2	57.0	ł
#8		1.9	5.	.5	84.0	35.8	7.2	64.2	no
#16		1.7	3.	.1	67.7	28.8	6.9	71.2	+
#30		1.6	2.	5	48.6	20.9	7.9	79.1	no
#50		1.5	2.	.3	20.4	9.3	11.6	90.7	*
#100		1.4	2.		5.9	3.3	6.0	96.7	а
LBW		1.3	2.	.0	0.5	1.0	2.3	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., 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	19.4	9.0	80.6
#50	7.5	11.9	92.5
#100	0.9	6.6	99.1
LBW	0.9	0.1	99.1

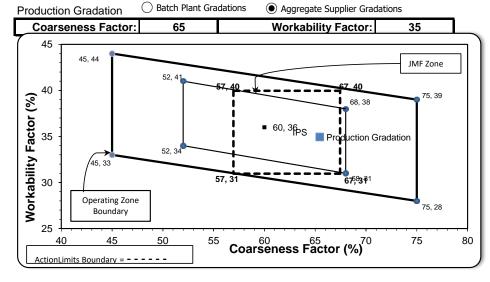
Approved By: North Ball

PLANT #	<b>#:</b>	P-32					Contractor:		
Sample Date	:	9/27/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/28/2021	through	10/4/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1650	10.09	2.62	54.1			
26A	71-47	Presque Isle	170	1.04	2.62	5.6			
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	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"		96.3	100	0.0	100.0	98.0	2.0	2.0	
3/4"		73.5	100	0.0	100.0	85.7	12.3	14.3	1
1/2"		37.2	96	5.0	100.0	65.8	19.9	34.2	
3/8"	:	23.1	82	2.5	100.0	57.4	8.4	42.6	*
#4		4.4	28	8.5	95.3	42.4	15.0	57.6	٩
#8		1.7	8.	.4	83.2	34.9	7.5	65.1	nc
#16		1.3	4.	.0	67.9	28.3	6.6	71.7	٩
#30		1.2	2.	.7	49.8	20.9	7.4	79.1	nc
#50		1.2	2.	.2	25.3	11.0	9.9	89.0	*
#100		1.1		.0	8.4	4.1	6.9	95.9	a
LBW		0.8	1.	.7	1.7	1.2	2.9	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)								
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					

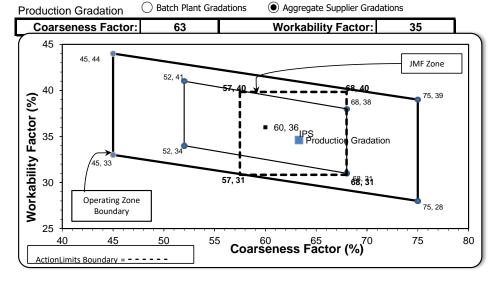
Approved By: Mart P. Ball

PLANT #	#:	P-35					Contractor:		
Sample Date	:	9/27/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/28/2021	through	10/4/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1600	9.53	2.69	51.6			
26A	58-003	Stoneco	300	1.79	2.69	9.7			
2NS	81-093	Burmeister	1200	7.26	2.65	38.7			
		Total Wt	3100	18.58		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"	ç	99.8	10	0.0	100.0	99.9	0.1	0.1	
3/4"	8	82.0	10	0.0	100.0	90.7	9.2	9.3	
1/2"	4	42.5	99	9.5	100.0	70.3	20.4	29.7	
3/8"		22.1	87	7.7	100.0	58.6	11.7	41.4	
#4		4.4	8	.0	99.2	41.4	17.2	58.6	
#8		1.5	2	.4	86.8	34.6	6.8	65.4	n
#16		0.8	1	.7	70.9	28.0	6.6	72.0	
#30		0.7	1	.5	52.4	20.8	7.2	79.2	n
#50		0.6	1	.4	18.7	7.7	13.1	92.3	4
#100		0.6		.4	2.7	1.5	6.2	98.5	а
LBW		0.6	1	.3	1.0	0.8	0.7	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.



Intial Production Sample (IPS)								
Coars	eness Factor:	63						
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"	99.2	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					

PREPARED BY: SM, LLC Technical Service

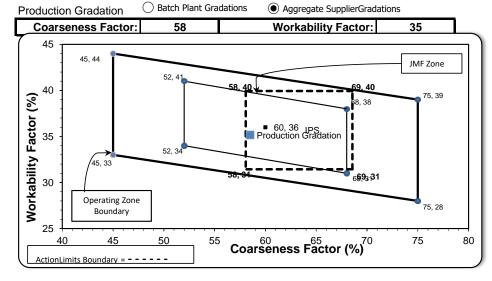
Approved By: Mart P. Ball

PLANT #	<b>#:</b>	<b>P-O2</b>					Contractor:		
Sample Date	:	9/27/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/28/2021	through	10/4/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific	%			
Agg. Olass	110#	oource	Weight (SSD)		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	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	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"	1	98.8	100	0.0	100.0	99.4	0.6	0.6	1
3/4"		89.6	100	0.0	100.0	94.7	4.7	5.3	
1/2"		52.0	96	.0	100.0	75.3	19.4	24.7	-
3/8"	:	28.2	82	.5	100.0	62.1	13.2	37.9	*M
#4		4.8	28	.5	96.4	44.3	17.8	55.7	*A
#8		2.6	8.	4	80.9	35.2	9.1	64.8	nom
#16		2.2	4.	0	66.3	28.6	6.5	71.4	*%
#30		1.8	2.	7	50.5	21.8	6.8	78.2	nom
#50		1.7	2.	2	26.4	11.9	10.0	88.1	*%
#100		1.6	2.	0	6.2	3.5	8.3	96.5	a 2"
LBW		1.2	1.	7	0.9	1.1	2.4	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 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"	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					
	ē		-					

PREPARED BY: SM, LLC Technical Service

Approved By: Nat 1. Ball