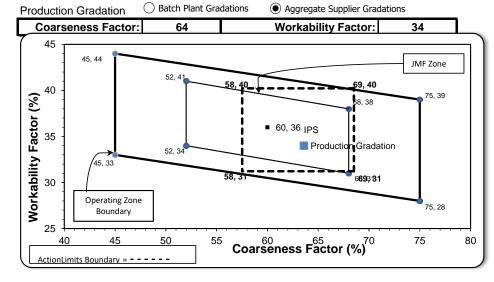
PLANT :	#:	P-102					Contractor:		
Sample Date		9/13/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/14/2021	through	9/20/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1600	9.53	2.69	51.6			
26A	58-003	Stoneco	290	1.73	2.69	9.4			
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"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
3/4"	8	35.9	10	0.0	100.0	92.7	7.3	7.3	1
1/2"	4	43.8	99	9.5	100.0	70.9	21.8	29.1	
3/8"		21.6	83	3.9	100.0	58.0	12.9	42.0	*N
#4		3.9	13	3.3	98.4	41.7	16.4	58.3	*/
#8		1.3	4	.1	84.4	34.0	7.7	66.0	nor
#16		1.1	2	.8	68.4	27.5	6.5	72.5	*0
#30		1.0	2	.3	48.6	19.7	7.8	80.3	noi
#50		0.8	2	.0	17.7	7.5	12.2	92.5	*0
#100		0.8		.9	3.4	1.9	5.6	98.1	a 2
LBW		0.6	1	.7	0.7	0.7	1.2	99.3	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)	_
Coars	seness Factor:	63	
Worl	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

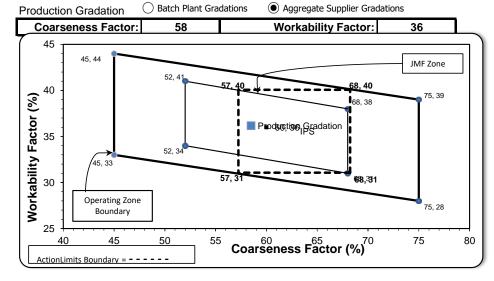
Approved By: Mart 1. Ball

PLANT #	#:	P-20					Contractor:		
Sample Date:	:	9/13/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/14/2021	through	9/20/2021			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 number 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"	9	99.4	10	0.0	100.0	99.7	0.3	0.3	1
3/4"	1	89.7	10	0.0	100.0	94.6	5.1	5.4	
1/2"		52.9	96	5.9	100.0	75.1	19.5	24.9	1
3/8"	;	30.8	84	.3	100.0	62.7	12.4	37.3	÷
#4		6.2	16	6.0	97.9	44.4	18.2	55.6	*
#8		2.4	4.	.9	84.4	36.2	8.3	63.8	no
#16		1.7	2.	.7	69.2	29.4	6.7	70.6	*
#30		1.6	2.	.2	49.5	21.3	8.2	78.7	nc
#50		1.5	2.	.0	21.5	9.7	11.5	90.3	*
#100		1.5	1.	.9	3.3	2.3	7.5	97.7	а
LBW		1.4	1.	.7	0.5	1.1	1.2	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 Product	ion 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"	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
#50 #100	7.5 0.9	11.9 6.6	92.5 99.1

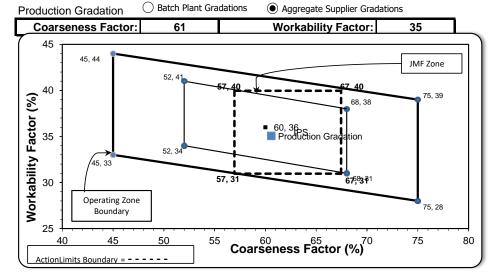
Approved By: Mart P. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	9/13/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/14/2021	through	9/20/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	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	10	0.0	100.0	100.0	0.0	0.0	
1.5"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	
1"		97.2	10	0.0	100.0	98.5	1.5	1.5	
3/4"		86.3	10	0.0	100.0	92.6	5.9	7.4	1
1/2"		49.1	97	7.9	100.0	72.3	20.2	27.7	
3/8"	:	28.2	91	.0	100.0	60.7	11.7	39.3	*
#4		5.7	28	3.6	95.2	43.1	17.6	56.9	*
#8		3.2	7.	.5	81.6	35.1	8.0	64.9	no
#16		2.4	3	.3	66.1	28.1	6.9	71.9	*
#30		2.3	2	.5	48.2	20.8	7.3	79.2	no
#50		2.2	2	.3	24.2	11.1	9.7	88.9	*(
#100		1.9	2	.1	7.8	4.3	6.8	95.7	a 2
LBW		1.5	1.	.8	1.4	1.5	2.8	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 Production Sample (IPS)								
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					

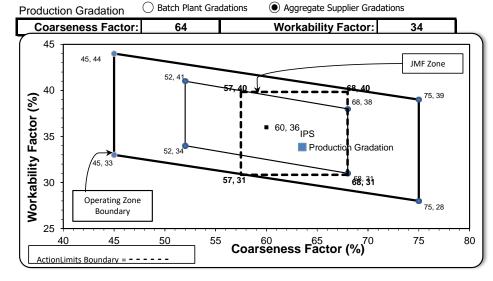
Approved By: Mart P. Ball

PLANT #	#:	P-35					Contractor:		
Sample Date	:	9/13/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/14/2021	through	9/20/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
Ayy. Class	FIL#	Source	weight (SSD)	п	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	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	00.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"	5	85.9	100	0.0	100.0	92.7	7.3	7.3	1
1/2"	4	43.8	99	.5	100.0	70.9	21.8	29.1	1
3/8"	2	21.6	83	.9	100.0	58.0	13.0	42.0	*N
#4		3.9	13	.3	98.8	41.5	16.4	58.5	*A
#8		1.3	4.	1	84.7	33.9	7.7	66.1	nor
#16		1.1	2.	8	66.9	26.7	7.1	73.3	*9
#30		1.0	2.	3	46.0	18.5	8.2	81.5	nor
#50		0.8	2.	0	14.2	6.1	12.4	93.9	*9
#100		0.8	1.	9	1.9	1.3	4.8	98.7	a 2
LBW		0.6	1.	7	0.6	0.7	0.6	99.3	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:	63	
Wor	kability Factor:	35	
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"	59.4	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

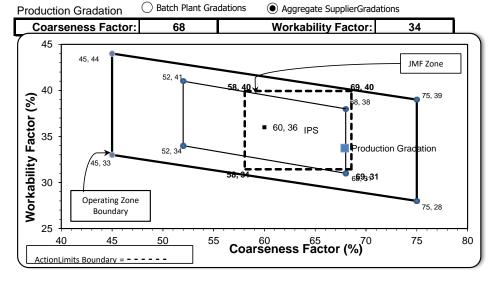
Approved By: Mart P. Ball

PLANT #	#:	P-O2					Contractor:		
Sample Date	:	9/13/21			Concrete Grade:	S2M			
Dates Test R	epresents:	9/14/2021	through	9/20/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
Agg. Class		Source		-	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	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"	1	96.5	100	0.0	100.0	98.2	1.8	1.8	
3/4"		69.2	100	0.0	100.0	84.3	13.9	15.7	1
1/2"		30.4	97	.9	100.0	64.5	19.9	35.5	1
3/8"		12.9	91	.0	100.0	55.0	9.5	45.0	*N
#4		3.1	28	6.6	95.1	42.9	12.1	57.1	*/
#8		2.1	7.	5	78.2	33.7	9.2	66.3	nor
#16		1.7	3.	.3	62.9	26.9	6.8	73.1	*9
#30		1.4	2.	.5	47.9	20.5	6.4	79.5	nor
#50		1.4	2.	.3	27.0	12.0	8.6	88.0	*9
#100		1.3	2.	.1	7.0	3.7	8.3	96.3	a 2
LBW		1.0	1.	.8	1.0	1.1	2.6	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 Product	ion 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: Mart P. Ball