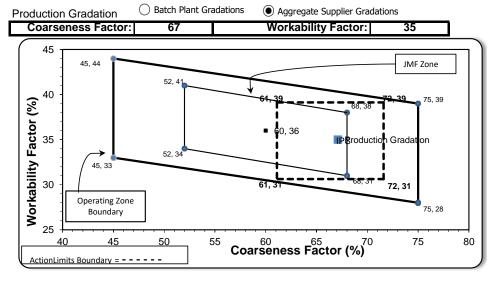
PLANT #: P-10		P-101					Contractor:		
Sample Date	:	8/8/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	8/9/2022	through	8/15/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque 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	00.0	100	).0	100.0	100.0	0.0	0.0	1
1.5"		98.7	100	).0	100.0	99.5	0.5	0.5	1
1"		47.5	100	).0	100.0	81.7	17.8	18.3	1
3/4"		12.4	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	*
#4		1.6	17	.3	99.0	43.8	12.6	56.2	*
#8		1.4	4.	5	85.3	35.0	8.8	65.0	no
#16		1.4	2.	7	70.1	28.6	6.4	71.4	*(
#30		1.3	2.	3	53.2	21.8	6.7	78.2	no
#50		1.2	2.	1	26.3	11.2	10.6	88.8	*(
#100		1.1	1.	9	6.8	3.5	7.7	96.5	a 2
LBW		0.9	1.	7	1.0	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.



	on Sample (IPS	5)	_	
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	#50 10.4		89.6	
#100	#100 3.4		96.6	
LBW	1.2	2.2	98.8	

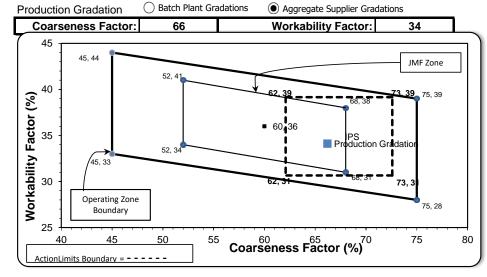
Approved By: Mart 1. Ball

<b>PLANT</b>	#:	P-102					Contractor:		
Sample Date	e:	8/8/22			Concrete Grade:	P1M, 3500HP			
Dates Test F	Represents:	8/9/2022	through	8/15/2022			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	I/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		100.0	10	0.0	100.0	100.0	0.0	0.0	1
1"		62.3	10	0.0	100.0	83.4	16.6	16.6	1
3/4"		38.8	100	0.0	100.0	73.1	10.3	26.9	1
1/2"		14.4	92	2.6	100.0	61.1	12.0	38.9	
3/8"		8.1	81	.5	100.0	56.4	4.7	43.6	*N
#4		3.0	26	5.2	99.3	44.1	12.3	55.9	*/
#8		1.7	5.	.6	84.2	34.1	10.0	65.9	no
#16		1.4	2.6		66.5	26.7	7.5	73.4	*0
#30		1.2	1.	.8	48.3	19.4	7.2	80.6	no
#50		1.1	1.	.6	25.1	10.4	9.0	89.6	*0
#100		1.1		.4	7.8	3.7	6.7	96.3	a 2
LBW		1.0	1.	.2	1.4	1.2	2.5	98.8	



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\*Maximum % Retained must be above the 3/8" sieve.
\*Any two adjacent sieves must equal 10% except max., 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	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	#100 2.2		97.8
LBW	1.4	0.8	98.6

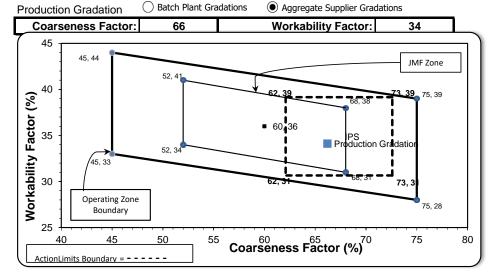
Approved By: Mart 1. Ball

PLANT #: P-103						Contractor:			
Sample Date	):	8/8/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	8/9/2022	through	8/15/2022			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	I/	4	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	10	0.0	100.0	100.0	0.0	0.0	
1"		62.3	10	0.0	100.0	83.4	16.6	16.6	
3/4"		38.8	100	0.0	100.0	73.1	10.3	26.9	1
1/2"		14.4	92	2.6	100.0	61.1	12.0	38.9	
3/8"		8.1	81	.5	100.0	56.4	4.7	43.6	*
#4		3.0	26	5.2	99.3	44.1	12.3	55.9	*.
#8		1.7	5.	.6	84.2	34.1	10.0	65.9	no
#16		1.4	2.6		66.5	26.7	7.5	73.4	*(
#30		1.2	1.	.8	48.3	19.4	7.2	80.6	no
#50		1.1	1.	.6	25.1	10.4	9.0	89.6	*(
#100		1.1		.4	7.8	3.7	6.7	96.3	a 2
LBW		1.0	1.	.2	1.4	1.2	2.5	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., 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.



Sieve	Intial Production	on Sample (IPS	5)	_
Sieve         Cumulative % Passing         % Retained         Cumulative % 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	Coars	eness Factor:	67	
Sieve         % Passing         Retained         % Retained           2"         100.0         0.0         0.0           1.5"         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	Work	ability Factor:	35	
% 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	Siovo	Cumulative	%	Cumulative
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	Sieve	% Passing	Retained	% Retained
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	2"	100.0	0.0	0.0
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	1.5"	100.0	0.0	0.0
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	1"	85.5	14.5	14.5
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	3/4"	73.4	12.1	26.6
#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	1/2"	61.0	12.4	39.0
#8         34.9         8.2         65.1           #16         29.4         5.5         70.6           #30         21.6         7.8         78.4	3/8"	56.2	4.8	43.8
#16         29.4         5.5         70.6           #30         21.6         7.8         78.4	#4	43.1	13.1	56.9
#30 21.6 7.8 78.4	#8	34.9	8.2	65.1
	#16	29.4	5.5	70.6
#50 8.1 13.4 91.9	#30	21.6	7.8	78.4
	#50	8.1	13.4	91.9
#100 2.2 5.9 97.8	#100	2.2	5.9	97.8
LBW 1.4 0.8 98.6	LBW	1.4	0.8	98.6

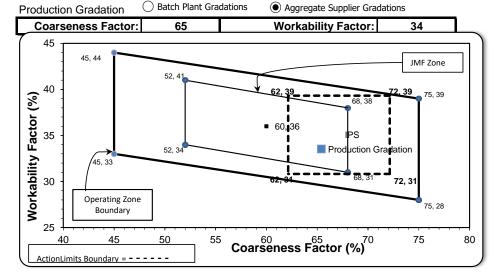
Approved BY: May 1. Ball

PLANT #	<b>#:</b>	P-12					Contractor:		
Sample Date	:	8/8/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	8/9/2022	through	8/15/2022			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	I
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"	:	33.0	100	).0	100.0	78.8	21.2	21.2	1
3/4"		8.0	98	.2	100.0	70.4	8.4	29.6	1
1/2"		2.4	79	.1	100.0	63.4	7.1	36.6	1
3/8"		2.2	54	.6	100.0	56.5	6.8	43.5	1
#4		1.8	14	.0	96.0	43.5	13.0	56.5	1
#8		1.7	5.	2	77.5	33.5	10.0	66.5	1
#16		1.6	3.	5	61.4	26.5	7.1	73.5	1
#30		1.5	3.	1	46.2	20.1	6.3	79.9	1
#50		1.5	2.	9	27.0	12.3	7.9	87.7	1
#100		1.4	2.		7.2	4.1	8.1	95.9	
LBW		1.1	2.	2	1.0	1.4	2.8	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	on Sample (IPS	5)	_
Coars	eness Factor:	67	
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"	74.0	9.8	26.0
1/2"	1/2" 63.7		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	#50 8.1		91.9
#100	1.6	6.5	98.4
LBW	0.9	0.8	99.1
	0.0	0.0	00.1

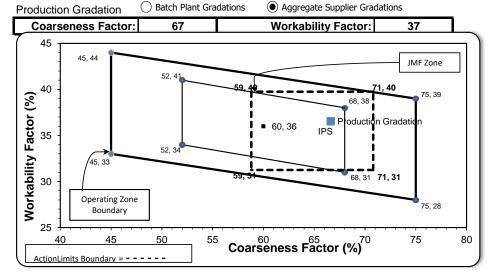
Approved By: Mart 1. Ball

PLANT #	<b>#:</b>	P-32					Contractor:		
Sample Date	:	8/8/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	8/9/2022	through	8/15/2022			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	5.63	2.62	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	1
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	00.0	100	).0	100.0	100.0	0.0	0.0	
1"	:	33.0	100	).0	100.0	80.4	19.6	19.6	
3/4"		8.0	98	.2	100.0	72.5	7.9	27.5	
1/2"		2.4	79	.1	100.0	65.1	7.4	34.9	
3/8"		2.2	54	.6	100.0	57.7	7.4	42.3	
#4		1.8	14	.0	96.8	44.1	13.6	55.9	
#8		1.7	5.	2	84.7	36.5	7.6	63.5	n
#16		1.6	3.	5	69.2	29.7	6.8	70.3	
#30		1.5	3.	1	49.9	21.7	8.0	78.3	n
#50		1.5	2.	9	24.5	11.3	10.4	88.7	,
#100		1.4	2.	7	7.4	4.2	7.1	95.8	а
LBW		1.1	2.	2	1.6	1.6	2.6	98.4	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	)	_
Coars	eness Factor:	65	
Work	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

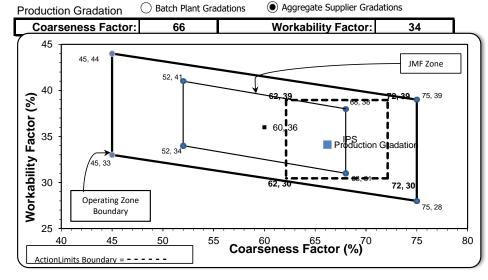
Approved By: Mart 1. Ball

PLANT #	#:	P-35					Contractor:		
Sample Date	):	8/8/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	8/9/2022	through	8/15/2022			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	IA	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"		62.3	100	0.0	100.0	83.4	16.6	16.6	1
3/4"		38.8	100	0.0	100.0	73.1	10.3	26.9	1
1/2"		14.4	92	6	100.0	61.1	12.0	38.9	
3/8"		8.1	81	.5	100.0	56.4	4.7	43.6	
#4		3.0	26	.2	99.3	44.1	12.3	55.9	
#8		1.7	5.	6	84.2	34.1	10.0	65.9	no
#16		1.4	2.	6	66.5	26.7	7.5	73.4	
#30		1.2	1.	8	48.3	19.4	7.2	80.6	n
#50		1.1	1.	6	25.1	10.4	9.0	89.6	,
#100		1.1	1.		7.8	3.7	6.7	96.3	а
LBW		1.0	1.	2	1.4	1.2	2.5	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
Sleve	% 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

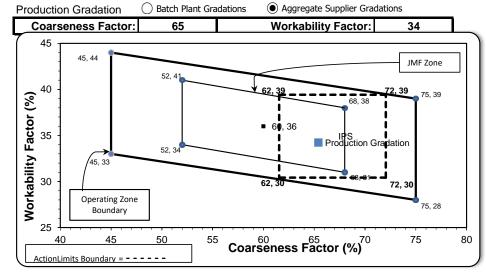
Approved By: Mart 1. Ball

PLANT #:		P-36					Contractor:		
Sample Date:		8/8/22			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		8/9/2022	through	8/15/2022			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	0.0	100.0	100.0	0.0	0.0	
1.5"	100.0		100.0		100.0	100.0	0.0	0.0	
1"	:	33.0	100.0		100.0	80.4	19.6	19.6	
3/4"		8.0	98	.2	100.0	72.5	7.9	27.5	
1/2"		2.4	79	.1	100.0	64.8	7.7	35.2	
3/8"		2.2	54.6		100.0	57.0	7.8	43.0	*N
#4	1.8		14.0		97.5	43.1	13.9	56.9	*/
#8	1.7		5.2		82.1	34.2	8.8	65.8	nor
#16		1.6		5	67.4	27.9	6.3	72.1	*9
#30		1.5		1	49.3	20.7	7.2	79.3	nor
#50		1.5	2.	9	21.5	9.8	10.9	90.2	*9
#100		1.4 2.		7	3.8	2.7	7.0	97.3	a 2
LBW	1.1		2.2		0.8	1.3	1.4	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)								
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	LBW 0.7		99.3					

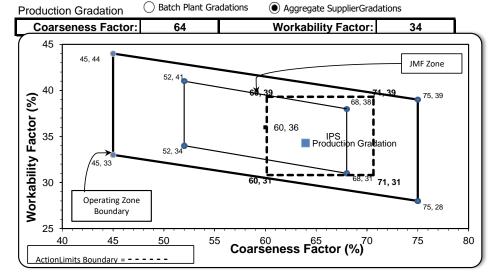
Approved By: Mart P. Ball

PLANT #:		P-39					Contractor:		
Sample Date	:	8/8/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	8/9/2022	through	8/15/2022			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		CA	14	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"		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	.5	100.0	70.5	12.1	29.5	
1/2"		3.0	83	.2	100.0	63.4	7.1	36.6	
3/8"		2.0	63.7		100.0	58.0	5.4	42.0	*
#4		1.6	17.3		96.2	44.2	13.8	55.8	*,
#8		1.4 4.5		5	80.2	34.3	9.9	65.7	noi
#16		1.4	2.	7	66.2	28.1	6.2	71.9	*0
#30		1.3 2		3	50.4	21.6	6.6	78.4	no
#50		1.2	2.	1	24.8	11.0	10.5	89.0	*(
#100		1.1	1.		6.4	3.5	7.6	96.5	a 2
LBW		0.9	1.	7	0.4	0.9	2.6	99.1	



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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					
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"	74.1	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					

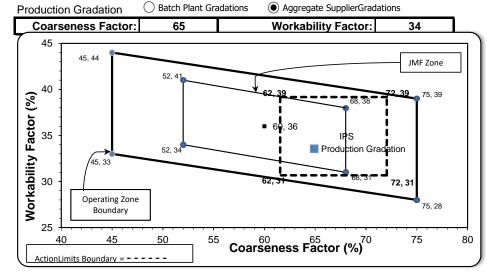


PLANT #:		<b>P-O2</b>					Contractor:	
Sample Date	:	8/8/22			Concrete Grade:	P1M, 3500HP		
Dates Test R	epresents:	8/9/2022	through	8/15/2022			MDOT No.:	
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution		
CA	71-47	Presque Isle	950	5.81	2.62	30.9		
IA	71-47	Presque Isle	870	5.32	2.62	28.3	1	
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		1/	4	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"	:	33.0	100	0.0	100.0	79.3	20.7	20.7
3/4"		8.0	98	5.2	100.0	71.0	8.2	29.0
1/2"		2.4	79	).1	100.0	63.9	7.1	36.1
3/8"		2.2	54.6		100.0	56.9	7.0	43.1
#4	1.8		14.0		96.0	43.6	13.3	56.4
#8	1.7		5.2		77.5	33.6	10.1	66.4
#16		1.6	3.	.5	61.4	26.5	7.1	73.5
#30		1.5	3.	.1	46.2	20.2	6.3	79.8
#50		1.5	2.9		27.0	12.3	7.9	87.7
#100				.7	7.2	4.1	8.1	95.9
LBW	1.1		2.	2	1.0	1.4	2.8	98.6



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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