

APPENDIX H

PRELIMINARY WATER QUALITY SUMMARY SHEETS

(Preliminary WQSS Provided for ON-SITE SWM Facilities Only)

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. _____

Project Description **I495/I270 P3 - Summary**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____

Date _____

Approved by Chief, Plan Review Division _____

Date _____

0.00

Banking Fee (acres)

-3.17

Net Debit/Credit to WQ Bank (acres)

Printed Name _____

Concept

Site Development

Final

Net Reduction in Impervious Area (ac) = N/A
Reconstructed Impervious Area Treated (ac) = 100.82

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{Ei}	A _{Pi}	%I	A _{Mi}	A _{Li}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
TOTALS	227.57	330.73		65.34	22.02	8.58	103.16	71.06	115.01	208.09			0.00	214.80	1.23		203.98	-3.17
POI SA110500 to POI SA118081	14.87	29.90		0.00	4.48	0.00	15.03	6.70	16.53	27.71			0.00	23.72	0.01		23.53	-4.18
POI SA118255 to POI SA121776	12.75	21.97		0.00	1.10	0.00	9.22	6.11	9.78	16.99			0.00	11.59	0.00		8.35	-8.64
POI SA121792 to POI SA122984	27.61	69.05		0.00	0.96	0.96	41.44	13.33	41.45	55.74			0.00	50.78	0.00		49.92	-5.82
POI SB205850 to LOI SA202400E	14.02	23.67		0.00	0.84	0.00	9.65	5.47	12.74	19.05			0.00	14.03	0.00		13.28	-5.77
POI SB500287 to LOI 205654W	21.07	28.21		0.00	3.41	0.00	7.14	10.55	7.14	21.10			0.00	17.72	0.00		17.72	-3.38
POI SB202469W to POI SB199564W	0.62	1.37		0.00	3.56	0.00	0.75	0.32	0.76	4.64			0.00	6.12	0.00		5.69	1.05
LOI 507229 to POI 511923	21.03	30.62		0.00	5.53	0.00	9.59	9.77	11.14	25.50			0.00	24.84	0.00		24.84	-0.66
POI SB607510 to POI SB062100	52.96	52.29		29.84	0.42	7.62	-0.67	7.48	-0.12	7.78			0.00	26.32	0.00		22.56	14.78
POI SB701573 to POI SB707519	9.39	13.21		0.00	0.00	0.00	3.82	4.50	4.29	8.79			0.00	15.55	1.22		13.96	5.17
POI SB804740 to POI SB801364	53.25	60.44		35.50	1.72	0.00	7.19	6.83	11.30	19.85			0.00	24.13	0.00		24.13	4.28

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0400**

Contract No. _____

Project Description **1495/1270 P3 - POI SA110500 to POI SA118081**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____

Date _____

Approved by Chief, Plan Review Division _____

Date _____

0.00
-4.18

Banking Fee (acres)
Net Debit/Credit to WQ Bank (acres)

Printed Name _____

Concept

Site Development

Final

Net Reduction in Impervious Area (ac) = N/A
Reconstructed Impervious Area Treated (ac) = 8.5

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{EI}	A _{PI}	%I	A _{MI}	A _{LI}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
TOTALS	14.87	29.90		0.00	4.48	0.00	15.03	6.70	16.53	27.71			0.00	23.72	0.01		23.53	-4.18
SA110500	4.50	8.53	89.0	0.00	0.00	0.00	4.03	2.25	4.03	6.28			0.00	0.00	0.00	0.00	0.00	-6.28
SA110724	0.24	1.31	17.9	0.00	0.00	0.00	1.07	0.00	1.31	1.31			0.00	0.00	0.00	0.00	0.00	-1.31
SA111083	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA111120	0.45	2.50	70.7	0.00	0.00	0.00	2.05	0.23	2.05	2.28			0.00	0.00	0.00	0.00	0.00	-2.28
SA111156	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA111213	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA111302	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA111384	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA111426	0.56	0.04	81.0	0.00	0.00	0.00	-0.52	0.28	-0.52	-0.24			0.00	0.00	0.00	0.00	0.00	0.24
SA111553	0.00	0.02	20.0	0.00	0.00	0.00	0.02	0.00	0.02	0.02			0.00	0.00	0.00	0.00	0.00	-0.02
SA111619	0.22	0.00	73.0	0.00	0.00	0.00	-0.22	0.11	-0.22	-0.11			0.00	0.00	0.00	0.00	0.00	0.11
SA111741	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA111764	1.74	1.40	58.0	0.00	0.00	0.00	-0.34	0.87	-0.34	0.53			0.00	0.00	0.00	0.00	0.00	-0.53
SA112196	1.03	2.44	25.2	0.00	0.00	0.00	1.41	0.00	2.44	2.44	M-2. Submerged Gravel Wetlands	SA112196 SG-01	0.00	2.07	0.00	1.08	2.07	-0.37
SA112000	0.50	0.25	46.0	0.00	0.00	0.00	-0.25	0.25	-0.25	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA112072	0.02	0.00	100.0	0.00	0.00	0.00	-0.02	0.01	-0.02	-0.01			0.00	0.00	0.00	0.00	0.00	0.01
SA112203	0.00	0.00	100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA112241	3.27	6.59	49.1	0.00	1.33	0.00	3.32	1.64	3.32	6.29	M-8 Bio-Swales	SA112241 BS-01	0.00	0.74	0.00	1.16	0.74	-5.55
SA112241											M-8 Bio-Swales	SA112241 BS-02	0.00	0.68	0.00	0.88	0.60	
SA112241											M-8 Bio-Swales	SA112241 BS-03	0.00	0.68	0.00	0.82	0.56	
SA112241											M-8 Bio-Swales	SA112241 BS-04	0.00	0.81	0.00	1.39	0.81	
SA112241											M-8 Bio-Swales	SA112241 BS-05	0.00	0.18	0.00	2.60	0.18	
SA112241											M-8 Bio-Swales	SA112241 BS-06	0.00	0.18	0.00	2.60	0.18	
SA112241											F-2 Underground Sand Filter (Figure	SA112241 SF-09	0.00	1.77	0.00	1.00	1.77	
SA112241											F-2 Underground Sand Filter (Figure	SA112241 SF-10	0.00	1.31	0.00	1.00	1.31	
SA114111	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA114317	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0400**

Contract No. _____

Project Description **1495/1270 P3 - POI SA110500 to POI SA118081**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____

Date _____

Approved by Chief, Plan Review Division _____

Date _____

0.00
-4.18

Banking Fee (acres)

Net Debit/Credit to WQ Bank (acres)

Net Reduction in Impervious Area (ac) = **N/A**
Reconstructed Impervious Area Treated (ac) = **8.5**

Printed Name _____

Concept

Site Development

Final

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{EI}	A _{PI}	%I	A _{MI}	A _{LI}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
SA114473	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA114507	1.12	3.14	42.1	0.00	0.89	0.00	2.02	0.56	2.02	3.47	F-6 Bioretention (Figure 3.17)	SA114507 BR-01	0.00	1.77	0.00	2.60	1.77	-1.70
SA114507											F-6 Bioretention (Figure 3.17)	SA114507 BR-02	0.00	0.82	0.00	1.40	0.82	
SA114507											M-8 Bio-Swales	SA114507 BS-04	0.00	0.36	0.00	1.18	0.36	
SA114507											M-8 Bio-Swales	SA114507 BS-05	0.00	0.67	0.00	2.59	0.67	
SA114507											M-8 Bio-Swales	SA114507 BS-06	0.00	0.59	0.00	2.35	0.59	
SA114507											M-8 Bio-Swales	SA114507 BS-07	0.00	0.72	0.00	1.54	0.72	
SA114507											M-8 Bio-Swales	SA114507 BS-08	0.00	0.04	0.00	2.60	0.04	
SA114507											M-8 Bio-Swales	SA114507 BS-09	0.00	0.07	0.00	2.60	0.07	
SA114507											M-8 Bio-Swales	SA114507 BS-10	0.00	0.05	0.00	2.60	0.05	
SA114507											F-6 Bioretention (Figure 3.17)	SA114507 BR-11	0.00	0.11	0.01	2.60	0.12	
SA114507											F-2 Underground Sand Filter (Figure)	SA114507 SF-12	0.00	1.25	0.00	1.00	1.25	
SA115000	0.00	0.00	2.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA115066	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA115448	0.04	0.00	20.0	0.00	0.00	0.00	-0.04	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA115468	0.19	0.31	25.0	0.00	0.00	0.00	0.12	0.00	0.31	0.31	F-6 Bioretention (Figure 3.17)	SA115468 BR-01	0.00	0.32	0.00	1.10	0.32	0.01
SA115949	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA116047	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA116706	0.20	0.01	52.0	0.00	0.68	0.00	-0.19	0.10	-0.19	0.59			0.00	0.00	0.00	0.00	0.00	-0.59
SA117496	0.20	1.80	59.9	0.00	0.79	0.00	1.60	0.10	1.60	2.49	F-6 Bioretention (Figure 3.17)	SA117496 BR-04	0.00	1.54	0.00	1.35	1.54	-0.95
SA117496											M-8 Bio-Swales	SA117496 BS-05	0.00	0.71	0.00	2.59	0.71	
SA117496											M-8 Bio-Swales	SA117496 BS-06	0.00	0.68	0.00	2.24	0.68	
SA117496											M-8 Bio-Swales	SA117496 BS-07	0.00	0.68	0.00	1.87	0.68	
SA117496											M-8 Bio-Swales	SA117496 BS-08	0.00	0.62	0.00	1.83	0.62	
SA117496											F-2 Underground Sand Filter (Figure)	SA117496 SF-09	0.00	0.73	0.00	1.00	0.73	
SA117496											F-2 Underground Sand Filter (Figure)	SA117496 SF-10	0.00	0.82	0.00	1.00	0.82	
SA117722	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA118081	0.59	1.56	42.8	0.00	0.79	0.00	0.97	0.30	0.97	2.06	M-8 Bio-Swales	SA118081 BS-03	0.00	0.23	0.00	2.60	0.23	-1.83

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0400**

Contract No. _____

Project Description **1495/1270 P3 - POI SA110500 to POI SA118081**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____

Date _____

Approved by Chief, Plan Review Division _____

Date _____

0.00

Banking Fee (acres)

-4.18

Net Debit/Credit to WQ Bank (acres)

Printed Name _____

Concept

Site Development

Final

Net Reduction in Impervious Area (ac) = N/A
Reconstructed Impervious Area Treated (ac) = 8.5

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{EI}	A _{PI}	%I	A _{MI}	A _{LI}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS = ΣR - ΣK
SA118081											M-8 Bio-Swales	SA118081 BS-04	0.00	0.07	0.00	2.60	0.07	
SA118081											M-8 Bio-Swales	SA118081 BS-05	0.00	0.66	0.00	1.76	0.66	
SA118081											M-8 Bio-Swales	SA118081 BS-06	0.00	0.31	0.00	1.72	0.31	
SA118081											M-8 Bio-Swales	SA118081 BS-07	0.00	0.58	0.00	1.93	0.58	

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. **TBD**

Project Description **I495/I270 P3 - POI SA118255 to POI SA121776**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division

Date

Approved by Chief, Plan Review Division

Date

0.00

Banking Fee (acres)

-8.64

Net Debit/Credit to WQ Bank (acres)

Net Reduction in Impervious Area (ac) = **N/A**

Reconstructed Impervious Area Treated (ac) = **-0.87**

Printed Name

Concept

Site Development

Total

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{EI}	A _{PI}	%I	A _{MI}	A _{LI}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
TOTALS	12.75	21.97		0.00	1.10	0.00	9.22	6.11	9.78	16.99			0.00	11.59	0.00		8.35	-8.64
SA118255	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA118371	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA118446	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA118514	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA118587	0.14	0.0	51.6	0.00	0.0	0.0	-0.14	0.07	-0.14	-0.07			0.00	0.00	0.00	0.00	0.00	0.07
SA118660	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA118810	0.03	0.0	51.8	0.00	0.0	0.0	-0.03	0.02	-0.03	-0.01			0.00	0.00	0.00	0.00	0.00	0.01
SA118731	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA119151	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA119426	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA119509	11.2	21.3	50.9	0.00	1.1	0.0	10.10	5.60	10.10	16.80	M-2. Submerged Gravel Wetlands	SA119509 SG-01	0.00	5.32	0.00	0.40	2.13	-14.67
											OD Other devices as approved by PRD	SA119509 SR-02	0.00	2.71	0.00	2.60	2.71	
											F-2 Underground Sand Filter (Figure	SA119509 SF-03	0.00	0.00	0.00	0.00	0.00	
											M-8 Bio-Swales	SA119509 BS-04	0.00	0.29	0.00	1.68	0.29	
											M-8 Bio-Swales	SA119509 BS-05	0.00	0.15	0.00	1.36	0.15	
											M-8 Bio-Swales	SA119509 BS-06	0.00	0.12	0.00	1.67	0.12	
											F-6 Bioretention (Figure 3.17)	SA119509 BS-07	0.00	0.96	0.00	1.39	0.96	
											M-8 Bio-Swales	SA119509 BS-08	0.00	0.29	0.00	1.17	0.29	
											M-8 Bio-Swales	SA119509 BS-09	0.00	0.16	0.00	2.60	0.16	
											M-8 Bio-Swales	SA119509 BS-10	0.00	0.16	0.00	0.68	0.11	
											M-8 Bio-Swales	SA119509 BS-11	0.00	0.23	0.00	2.60	0.23	
											M-8 Bio-Swales	SA119509 BS-12	0.00	0.53	0.00	2.60	0.53	
SA119515	0.0	0.0	17.5	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA119528	0.0	0.0	16.7	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA119543	0.00	0.00	53.2	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA119590	0.02	0.01	100.0	0.00	0.0	0.0	-0.01	0.01	-0.01	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA119610	0.01	0.01	48.6	0.00	0.0	0.0	0.00	0.01	0.00	0.01	M-8 Bio-Swales	SA119610 BS-01	0.00	0.09	0.00	2.08	0.09	0.08

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. **TBD**

Project Description **I495/I270 P3 - POI SA118255 to POI SA121776**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____

Date _____

Approved by Chief, Plan Review Division _____

Date _____

0.00

Banking Fee (acres)

-8.64

Net Debit/Credit to WQ Bank (acres)

Net Reduction in Impervious Area (ac) = **N/A**

Reconstructed Impervious Area Treated (ac) = **-0.87**

Printed Name _____

Concept

Site Development

Total

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{EI}	A _{PI}	%I	A _{Mi}	A _{LI}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
SA119614	0.50	0.64	49.6	0.00	0.0	0.0	0.14	0.25	0.14	0.39	M-8 Bio-Swales	SA119614 BS-02	0.00	0.32	0.00	2.24	0.32	-0.07
											M-8 Bio-Swales	SA119614 BS-03	0.00	0.26	0.00	2.12	0.26	
SA120162	0.29	0.00	87.9	0.00	0.0	0.0	-0.29	0.15	-0.29	-0.14			0.00	0.00	0.00	0.00	0.00	0.14
SA120278	0.10	0.00	25.6	0.00	0.0	0.0	-0.10	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA120472	0.46	0.00	29.9	0.00	0.0	0.0	-0.46	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA120686	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA120806	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA120854	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA120975	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA121035	0.00	0.01	0.0	0.00	0.0	0.0	0.01	0.00	0.01	0.01			0.00	0.00	0.00	0.00	0.00	-0.01
SA121359	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA121427	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA121776	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040** Contract No. _____ Project Description **I495/I270 P3 - POI SA121792 to POI SA122984** 6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____ Date _____ Approved by Chief, Plan Review Division _____ Date _____

Banking Fee (acres) **0.00**
 Net Debit/Credit to WQ Bank (acres) **-5.82**
 Net Reduction in Impervious Area (ac) = **N/A**
 Reconstructed Impervious Area Treated (ac) = **8.48**

Printed Name _____ Concept Site Development Final

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{Ei}	A _{Pi}	%I	A _{Mi}	A _{Li}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
TOTALS	27.61	69.05		0.00	0.96	0.96	41.44	13.33	41.45	55.74			0.00	50.78	0.00		49.92	-5.82
SA121792	27.53	68.78	47.6	0.00	0.96	0.96	41.25	13.29	41.25	55.50	M-8 Bio-Swales	BS-01	0.00	0.28	0.00	2.60	0.28	-55.22
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-6 Bioretention (Figure 3.17)	BR-02	0.00	0.81	0.00	2.60	0.81	0.81
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	BS-03	0.00	0.31	0.00	1.45	0.31	0.31
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	BS-04	0.00	0.90	0.00	2.53	0.90	0.90
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	BS-05	0.00	0.23	0.00	2.60	0.23	0.23
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	BS-06	0.00	0.17	0.00	2.60	0.17	0.17
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	OD Other devices as approved by PRD	WQ-07	0.00	0.37	0.00	1.00	0.37	0.37
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	P-3 Wet Extended Det'n Pond (Fig 3.3)	SW-08	0.00	14.03	0.00	1.00	14.03	14.03
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	P-3 Wet Extended Det'n Pond (Fig 3.3)	SW-09	0.00	14.26	0.00	1.00	14.26	14.26
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	P-3 Wet Extended Det'n Pond (Fig 3.3)	SW-10	0.00	4.88	0.00	1.00	4.88	4.88
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-2 Underground Sand Filter (Figure	SF-11	0.00	0.55	0.00	1.00	0.55	0.55
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-2 Underground Sand Filter (Figure	SF-12	0.00	1.10	0.00	1.00	1.10	1.10
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Grass Swales	GS-13	0.00	0.66	0.00	0.54	0.36	0.36
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Grass Swales	GS-14	0.00	0.57	0.00	0.65	0.37	0.37
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Grass Swales	GS-15	0.00	0.30	0.00	0.74	0.22	0.22
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-2 Underground Sand Filter (Figure	SF-16	0.00	1.71	0.00	1.00	1.71	1.71
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-2 Underground Sand Filter (Figure	SF-17	0.00	1.99	0.00	1.00	1.99	1.99
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-2 Underground Sand Filter (Figure	SF-18	0.00	1.99	0.00	1.00	1.99	1.99
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-6 Bioretention (Figure 3.17)	BR-19	0.00	0.87	0.00	1.06	0.87	0.87
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	BS-20	0.00	1.34	0.00	1.23	1.34	1.34
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	BS-21	0.00	0.63	0.00	0.55	0.35	0.35
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	BS-22	0.00	0.92	0.00	2.21	0.92	0.92
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	BS-23	0.00	0.45	0.00	1.76	0.45	0.45
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	BS-24	0.00	0.11	0.00	1.73	0.11	0.11
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	OD Other devices as approved by PRD	WQ-25	0.00	0.31	0.00	1.00	0.31	0.31
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA122510	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040** Contract No. _____ Project Description **I495/I270 P3 - POI SA121792 to POI SA122984** 6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____ Date _____ Approved by Chief, Plan Review Division _____ Date _____

0.00 Banking Fee (acres)
-5.82 Net Debit/Credit to WQ Bank (acres)
 Net Reduction in Impervious Area (ac) = N/A
 Reconstructed Impervious Area Treated (ac) = 8.48

Printed Name _____ Concept Site Development Final

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{Ei}	A _{PI}	%I	A _{Mi}	A _{Li}	A _{RECI}	ΔA_i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	$\Sigma S = \Sigma R - \Sigma K$
SA122745	0.01	0.00	26.2	0.00	0.00	0.00	-0.01	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SA122782	0.07	0.27	49.2	0.00	0.00	0.00	0.20	0.04	0.20	0.24	OD Other devices as approved by PRD	WQ-01	0.00	0.17	0.00	1.00	0.17	-0.07
SA122984	0.00	0.00	13.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040** Contract No. _____ Project Description **I495/I270 P3 - POI SB205850 to LOI SA202400E** 6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____ Date _____ Approved by Chief, Plan Review Division _____ Date _____

Banking Fee (acres) **0.00**
 Net Debit/Credit to WQ Bank (acres) **-5.77**
 Net Reduction in Impervious Area (ac) = **N/A**
 Reconstructed Impervious Area Treated (ac) = **3.63**

Printed Name _____ Concept Site Development Fire

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{Ei}	A _{Pi}	%I	A _{Mi}	A _{Li}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
TOTALS	14.02	23.67		0.00	0.84	0.00	9.65	5.47	12.74	19.05			0.00	14.03	0.00		13.28	-5.77
SB205850	10.43	19.58	41.1	0.00	0.84	0.00	9.15	5.22	9.15	15.21	M-8 Bio-Swales	BS-01	0.00	0.12		2.60	0.12	-15.09
											M-8 Bio-Swales	BS-04	0.00	0.27		0.77	0.21	
											M-8 Bio-Swales	BS-07	0.00	1.24		0.96	1.19	
											M-8 Bio-Swales	BS-08	0.00	0.66		0.79	0.52	
											M-8 Bio-Swales	BS-11	0.00	1.02		0.51	0.52	
											P-3 Wet Extended Det'n Pond (Fig 3.3)	SW-06	0.00	1.69		1.00	1.69	
											F-2 Underground Sand Filter (Figure	SF-02	0.00	0.77		1.00	0.77	
											F-2 Underground Sand Filter (Figure	SF-03	0.00	1.97		1.00	1.97	
											F-2 Underground Sand Filter (Figure	SF-12	0.00	1.69		1.00	1.69	
											F-6 Bioretention (Figure 3.17)	BR-10	0.00	2.01		2.25	2.01	
											F-6 Bioretention (Figure 3.17)	BR-05	0.00	0.74		1.80	0.74	
											F-6 Bioretention (Figure 3.17)	BR-09	0.00	0.61		2.60	0.61	
SA203240 E	1.48	1.82	37.7	0.00	0.00	0.00	0.34	0.00	1.82	1.82	M-8 Bio-Swales	BS-03	0.00	0.61		2.48	0.61	-1.21
											M-8 Bio-Swales	BS-01	0.00	0.37		1.86	0.37	
SA204210 E	1.59	1.65	36.6	0.00	0.00	0.00	0.06	0.00	1.65	1.65	M-8 Bio-Swales	BS-02	0.00	0.26		2.60	0.26	-1.39
SB209800	0.50	0.56	92.7	0.00	0.00	0.00	0.06	0.25	0.06	0.31						0.00	0.00	-0.31
SB207600	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00
SB205800	0.00	0.04	0.0	0.00	0.00	0.00	0.04	0.00	0.04	0.04						0.00	0.00	-0.04
SA203000 E	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00
SA203100 E	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00
SA203700 E	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00
SA204100 E	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00
SA204500 E	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00
SA205100 E	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00
SA202400 E	0.02	0.02	8.7	0.00	0.00	0.00	0.00	0.00	0.02	0.02						0.00	0.00	-0.02

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. _____

Project Description **I495/I270 P3 - POI SB500287 to LOI 205654W**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____

Date _____

Approved by Chief, Plan Review Division _____

Date _____

0.00

Banking Fee (acres)

-3.38

Net Debit/Credit to WQ Bank (acres)

Net Reduction in Impervious Area (ac) = N/A
Reconstructed Impervious Area Treated (ac) = 10.58

Printed Name _____

Concept Site Development Final

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{EI}	A _{PI}	%I	A _{MI}	A _{LI}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
TOTALS	21.07	28.21		0.00	3.41	0.00	7.14	10.55	7.14	21.10			0.00	17.72	0.00		17.72	-3.38
SB500287	6.11	9.56	43.3	0.00	0.17	0.00	3.45	3.06	3.45	6.68	F-6 Bioretention (Figure 3.17)	SB500287 BR 04	0.00	0.79	0.00	1.34	0.79	-5.89
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-6 Bioretention (Figure 3.17)	SB500287 BR 05	0.00	0.80	0.00	2.40	0.80	0.80
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB500287 BS-06	0.00	0.05	0.00	2.41	0.05	0.05
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6. Micro-Bioretention	SB500287 MB-07	0.00	0.19	0.00	1.09	0.19	0.19
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6. Micro-Bioretention	SB500287 MB-08	0.00	0.27	0.00	2.15	0.27	0.27
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6. Micro-Bioretention	SB500287 MB-09	0.00	0.27	0.00	1.00	0.27	0.27
SB212661	4.03	6.49	43.3	0.00	2.97	0.00	2.46	2.02	2.46	7.45	F-6 Bioretention (Figure 3.17)	SB212661 BR 01	0.00	2.04	0.00	2.10	2.04	-5.41
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-6 Bioretention (Figure 3.17)	SB212661 BR 02	0.00	4.07	0.00	1.05	4.07	4.07
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-6 Bioretention (Figure 3.17)	SB212661 BR 11	0.00	0.74	0.00	1.64	0.74	0.74
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB212661 BS-04	0.00	0.13	0.00	2.60	0.13	0.13
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB212661 BS-05	0.00	0.42	0.00	2.60	0.42	0.42
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6. Micro-Bioretention	SB212661 BS-06	0.00	0.30	0.00	1.70	0.30	0.30
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB212661 BS-07	0.00	0.64	0.00	2.60	0.64	0.64
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB212661 BS-08	0.00	0.10	0.00	2.60	0.10	0.10
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB212661 BS-09	0.00	0.56	0.00	2.32	0.56	0.56
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6. Micro-Bioretention	SB212661 MBR 12	0.00	0.06	0.00	2.60	0.06	0.06
SB 208944W	0.68	0.57	52.3	0.00	0.27	0.00	-0.11	0.34	-0.11	0.50	F-6 Bioretention (Figure 3.17)	SB208944W BR 01	0.00	0.45	0.00	2.60	0.45	-0.05
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-6 Bioretention (Figure 3.17)	SB208944W BR 02	0.00	0.46	0.00	2.60	0.46	0.46
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6. Micro-Bioretention	SB208944W MB 03	0.00	0.29	0.00	2.60	0.29	0.29
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6. Micro-Bioretention	SB208944W MB 04	0.00	0.16	0.00	2.60	0.16	0.16

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. _____

Project Description **I495/I270 P3 - POI SB500287 to LOI 205654W**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____

Date _____

Approved by Chief, Plan Review Division _____

Date _____

0.00

Banking Fee (acres)

-3.38

Net Debit/Credit to WQ Bank (acres)

Net Reduction in Impervious Area (ac) = N/A
Reconstructed Impervious Area Treated (ac) = 10.58

Printed Name _____

Concept Site Development Final

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{EI}	A _{PI}	%I	A _{MI}	A _{LI}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
SB 208287W	0.50	1.20	48.8	0.00	0.00	0.00	0.70	0.25	0.70	0.95	F-6 Bioretention (Figure 3.17)	SB208287W BR-03	0.00	0.40	0.00	1.00	0.40	-0.55
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio- Swales	SB208287W BS-04	0.00	0.40	0.00	2.60	0.40	0.40
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio- Swales	SB208287W BS-07	0.00	0.54	0.00	2.60	0.54	0.54
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio- Swales	SB208287W BS-08	0.00	0.53	0.00	1.90	0.53	0.53
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6 Micro-Bioretention	SB208287W MB-02	0.00	0.33	0.00	1.10	0.33	0.33
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6 Micro-Bioretention	SB208287W MB-05	0.00	0.07	0.00	2.60	0.07	0.07
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6 Micro-Bioretention	SB208287W MB-06	0.00	0.16	0.00	2.60	0.16	0.16
SB 207661W	2.78	3.17	55.9	0.00	0.00	0.00	0.39	1.39	0.39	1.78	M-6 Micro-Bioretention	SB2207661W MB 02	0.00	0.25	0.00	2.60	0.25	-1.53
SB 206302W	4.59	4.07	60.7	0.00	0.00	0.00	-0.52	2.30	-0.52	1.78			0.00	0.00	0.00	0.00	0.00	-1.78
SB211106	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB210874	1.68	2.45	57.4	0.00	0.00	0.00	0.77	0.84	0.77	1.61	M-8 Bio- Swales	SB210874 BS-02	0.00	1.09	0.00	1.12	1.09	-0.52
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio- Swales	SB210874 BS-05	0.00	0.58	0.00	1.65	0.58	0.58
SB212801	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB211796	0.00	0.00	34.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB211411	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 208996W	0.00	0.00	25.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
207852W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
206697W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
205654W	0.42	0.42	85.7	0.00	0.00	0.00	0.00	0.21	0.00	0.21			0.00	0.00	0.00	0.00	0.00	-0.21
205654W	0.28	0.28	68.3	0.00	0.00	0.00	0.00	0.14	0.00	0.14			0.00	0.00	0.00	0.00	0.00	-0.14

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. _____

Project Description **I495/I270 P3 POI SB202469W to POI SB199564W**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____ Date _____

Approved by Chief, Plan Review Division _____ Date _____

0.16 Banking Fee (acres)
0.89 Net Debit/Credit to WQ Bank (acres)

Printed Name _____

Concept Site Development Final

Net Reduction in Impervious Area (ac) = N/A
Reconstructed Impervious Area Treated (ac) = 4.94

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{Ei}	A _{Pi}	%I	A _{Mi}	A _{Li}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	
TOTALS	0.62	1.37		0.00	3.56	0.00	0.75	0.32	0.76	4.64			0.00	6.12	0.00		5.69	1.05
SB 203469W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 202965W	0.27	0.55	51.8	0.00	3.45	0.00	0.28	0.14	0.28	3.87	M-8 Bio-Swales	SB202965W BS-01	0.00	0.51	0.00	1.52	0.51	-3.36
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB202965W BS-02	0.00	1.16	0.00	1.70	1.16	1.16
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB202965W BS-03	0.00	1.04	0.00	0.59	0.61	0.61
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB202965W BS-04	0.00	0.28	0.00	1.72	0.28	0.28
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-2 Underground Sand Filter (Figure)	SB202965W SF-05	0.00	1.31	0.00	1.00	1.31	1.31
SB 204808W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 204812W	0.00	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 204851W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 204891W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 204876W	0.00	0.00	85.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 204853W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 204552W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 204335W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 202867W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 202469W	0.13	0.06	45.3	0.00	0.00	0.00	-0.07	0.07	-0.07	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 202212W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 201274W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 201647W	0.08	0.44	46.0	0.00	0.06	0.00	0.36	0.04	0.36	0.46	M-8 Bio-Swales	SB201647W BS-01	0.00	0.73	0.00	2.60	0.73	0.27
SB 200922W	0.00	0.00	5.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 200700W	0.00	0.00	23.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 201196W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 200006W	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 199801W	0.00	0.00	100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 199663W	0.13	0.26	62.9	0.00	0.00	0.00	0.13	0.07	0.13	0.20	F-2 Underground Sand Filter (Figure)	SB199663W SF-01	0.00	0.91	0.00	1.00	0.91	0.71
SB 199564W	0.01	0.06	11.8	0.00	0.05	0.00	0.05	0.00	0.06	0.11	M-8 Bio-Swales	SB199564W BS-01	0.00	0.18	0.00	2.60	0.18	0.07

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number _____

Contract No. _____

Project Description **I 495 I 270 P3 Section SB Predevelopment Phase**

6-Digit Watershed: 021402 - Washington Metropolitan Area

Approved by Chief, Highway Hydraulics Division _____

Date _____

Approved by Chief, Plan Review Division _____

Date _____

0.02 Banking Fee (acres)

0.10 Net Debit/Credit to WQ Bank (acres)

Printed Name _____

Concept Site Development Final

Net Reduction in Impervious Area (ac) = N/A
Reconstructed Impervious Area Treated (ac) = 17.48

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (Inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{EI}	A _{PI}	%I	A _{MI}	A _{LI}	A _{RECI}	ΔA _I H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
TOTALS	22.74	33.71		0.00	5.26	0.00	10.97	10.74	12.33	28.33			0.00	29.92	0.00		28.45	0.12
500287	3.95	5.72	66.4	0.00	0.00	0.00	1.77	1.98	1.77	3.75	M-8 Bio-Swales	500287-1	0.00	0.77	0.00	2.57	0.77	-2.98
											M-8 Bio-Swales	500287-2	0.00	0.38	0.00	2.12	0.38	
501744	0.16	1.10	55.1	0.00	0.00	0.00	0.94	0.08	0.94	1.02	M-8 Bio-Swales	501744-1	0.00	0.27	0.00	1.51	0.27	-0.75
											M-8 Bio-Swales	501744-2	0.00	0.75	0.00	1.53	0.75	
											M-8 Bio-Swales	501744-3	0.00	0.29	0.00	2.38	0.29	
											M-8 Bio-Swales	501744-4	0.00	0.63	0.00	2.52	0.63	
502365	0.45	2.00	61.8	0.00	0.00	0.00	1.55	0.23	1.55	1.78	M-8 Bio-Swales	502365-1	0.00	1.11	0.00	1.40	1.11	-0.67
											M-8 Bio-Swales	502365-2	0.00	0.38	0.00	1.32	0.38	
											M-8 Bio-Swales	502365-3	0.00	0.21	0.00	1.15	0.21	
											M-8 Bio-Swales	502365-4	0.00	0.64	0.00	1.59	0.64	
											M-8 Bio-Swales	502365-5	0.00	0.67	0.00	1.90	0.67	
											M-8 Bio-Swales	502365-7	0.00	0.79	0.00	2.39	0.79	
504355	2.06	4.37	69.2	0.00	0.00	0.00	2.31	1.03	2.31	3.34	M-8 Bio-Swales	504355-1	0.00	1.07	0.00	1.19	1.07	-2.27
											M-8 Bio-Swales	504355-2	0.00	0.12	0.00	0.48	0.06	
											M-8 Bio-Swales	504355-3	0.00	0.37	0.00	0.90	0.33	
											M-8 Bio-Swales	504355-4	0.00	0.41	0.00	0.86	0.35	
											M-8 Bio-Swales	504355-5	0.00	0.82	0.00	1.47	0.82	
											M-8 Bio-Swales	504355-6	0.00	1.07	0.00	1.42	1.07	
											M-8 Bio-Swales	504355-7	0.00	0.80	0.00	2.04	0.80	
											M-8 Bio-Swales	504355-8	0.00	0.95	0.00	2.47	0.95	
											M-8 Bio-Swales	504355-9	0.00	0.66	0.00	2.38	0.66	
											M-8 Bio-Swales	504355-10	0.00	0.76	0.00	1.98	0.76	
											M-8 Bio-Swales	504355-11	0.00	0.62	0.00	2.60	0.62	
											M-8 Bio-Swales	504355-12	0.00	0.61	0.00	2.60	0.61	
506024	0.59	0.54	70.7	0.00	0.00	0.00	-0.05	0.30	-0.05	0.25	M-8 Bio-Swales	506024-1	0.00	0.38	0.00	1.68	0.38	0.13

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number		Contract No.		Project Description I 495 I 270 P3 Section SB Predevelopment Phase							6-Digit Watershed: 021402 - Washington Metropolitan Area							
											M-8 Bio-Swales	506024-2	0.00	0.22	0.00	1.15	0.22	
											M-8 Bio-Swales	506024-3	0.00	0.25	0.00	2.41	0.25	
506038	0.33	0.25	76.8	0.00	0.00	0.00	-0.08	0.17	-0.08	0.09	M-8 Bio-Swales	506038-1	0.00	0.52	0.00	1.87	0.52	0.43
											M-8 Bio-Swales	506038-2	0.00	0.62	0.00	0.71	0.44	
506375	1.19	1.64	50.0	0.00	0.67	0.00	0.45	0.60	0.45	1.72	M-8 Bio-Swales	506375-1	0.00	0.66	0.00	2.26	0.66	-1.06
											P-2 Wet Pond (Figure 3.2)	506375-3	0.00	0.65	0.00	2.60	0.65	
506660	1.13	0.86	47.1	0.00	0.00	0.00	-0.27	0.57	-0.27	0.30			0.00	0.00	0.00	0.00	0.00	-0.30
507229	0.84	0.86	34.8	0.00	0.00	0.00	0.02	0.00	0.86	0.86	M-8 Bio-Swales	507229-1	0.00	0.87	0.00	2.38	0.87	0.01
											P-2 Wet Pond (Figure 3.2)	507229-2	0.00	1.79	0.00	1.44	1.79	
507492	0.52	0.69	33.9	0.00	0.00	0.00	0.17	0.00	0.69	0.69			0.00	0.00	0.00	0.00	0.00	-0.69
507832	1.23	1.35	45.0	0.00	4.59	0.00	0.12	0.62	0.12	5.33	M-8 Bio-Swales	507832-1	0.00	0.50	0.00	2.33	0.50	-4.83
											M-8 Bio-Swales	507832-2	0.00	0.13	0.00	2.54	0.13	
											P-2 Wet Pond (Figure 3.2)	507832-3	0.00	4.03	0.00	0.72	2.90	
508964	1.38	1.97	84.4	0.00	0.00	0.00	0.59	0.69	0.59	1.28			0.00	0.00	0.00	0.00	0.00	-1.28
510144	3.66	5.99	70.6	0.00	0.00	0.00	2.33	1.83	2.33	4.16	M-8 Bio-Swales	510144-1	0.00	0.84	0.00	1.80	0.84	-3.32
											M-8 Bio-Swales	510144-2	0.00	0.87	0.00	1.89	0.87	
											M-8 Bio-Swales	510144-3	0.00	0.45	0.00	2.06	0.45	
											M-8 Bio-Swales	510144-4	0.00	0.29	0.00	1.38	0.29	
											M-8 Bio-Swales	510144-5	0.00	0.39	0.00	2.10	0.39	
											M-8 Bio-Swales	510144-6	0.00	0.36	0.00	2.60	0.36	
											M-8 Bio-Swales	510144-7	0.00	0.10	0.00	2.60	0.10	
521	0.31	0.73	62.0	0.00	0.00	0.00	0.42	0.16	0.42	0.58			0.00	0.00	0.00	0.00	0.00	-0.58
511692	1.97	3.11	74.6	0.00	0.00	0.00	1.14	0.99	1.14	2.13	M-8 Bio-Swales	511692-1	0.00	0.10	0.00	2.60	0.10	-2.03
											M-8 Bio-Swales	511692-2	0.00	0.36	0.00	1.12	0.36	
511923	2.97	2.53	53.4	0.00	0.00	0.00	-0.44	1.49	-0.44	1.05	M-8 Bio-Swales	511923-1	0.00	0.29	0.00	1.67	0.29	-0.76
											M-8 Bio-Swales	511923-2	0.00	0.10	0.00	2.60	0.10	

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. _____

Project Description **1495/1270 P3 - POI SB607510 to POI SB062100**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____ Date _____

Approved by Chief, Plan Review Division _____ Date _____

2.22 Banking Fee (acres)
12.56 Net Debit/Credit to WQ Bank (acres)

Net Reduction in Impervious Area (ac) = 0.67
Reconstructed Impervious Area Treated (ac) = 22.56

Printed Name _____

Concept Site Development Final

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{Ei}	A _{Pi}	%I	A _{Mi}	A _{Li}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS = ΣR - ΣK
TOTALS	52.96	52.29		29.84	0.42	7.62	-0.67	7.48	-0.12	7.78			0.00	26.32	0.00		22.56	14.78
SB607510	0.72	0.69	52.4	0.21	0.00	6.92	-0.03	-3.21	-0.03	-3.24			0.00	0.00	0.00	0.00	0.00	3.24
SB607375	23.49	22.97	67.0	14.59	0.00	0.00	-0.52	4.45	-0.52	3.93	M-8 Bio-Swales	SB607375 BS-31	0.00	0.06	0.00	1.81	0.06	-3.87
											M-8 Bio-Swales	SB607375 BS-30	0.00	0.38	0.00	0.94	0.36	
											M-8 Bio-Swales	SB607375 BS-29	0.00	0.88	0.00	0.92	0.81	
											M-8 Bio-Swales	SB607375 BS-28	0.00	0.58	0.00	0.30	0.17	
											M-8 Bio-Swales	SB607375 BS-27	0.00	0.18	0.00	0.84	0.15	
											M-8 Bio-Swales	SB607375 BS-26	0.00	0.96	0.00	1.23	0.96	
											M-8 Bio-Swales	SB607375 BS-24	0.00	0.63	0.00	1.21	0.63	
											M-8 Bio-Swales	SB607375 BS-23	0.00	2.02	0.00	0.79	1.60	
											M-8 Bio-Swales	SB607375 BS-21	0.00	0.04	0.00	1.18	0.04	
											M-8 Bio-Swales	SB607375 BS-22	0.00	0.04	0.00	2.60	0.04	
											M-8 Bio-Swales	SB607375 BS-25	0.00	0.25	0.00	1.68	0.25	
											M-6. Micro-Bioretenion	SB607375 MB-20	0.00	0.04	0.00	2.60	0.04	
											M-8 Bio-Swales	SB607375 BS-32	0.00	1.84	0.00	1.06	1.84	
											M-8 Bio-Swales	SB607375 BS-33	0.00	1.54	0.00	1.08	1.54	
SB607070	11.46	11.74	60.0	8.61	0.42	0.00	0.28	1.43	0.28	2.13	M-8 Bio-Swales	SB607070 BS-18	0.00	0.14	0.00	2.60	0.14	-1.99
											M-8 Bio-Swales	SB607070 BS-17	0.00	1.51	0.00	1.72	1.51	
											P-2 Wet Pond (Figure 3.2)	SB607070 WP-19	0.00	6.92	0.00	1.00	6.92	

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. _____

Project Description **I495/I270 P3 - POI SB607510 to POI SB062100**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____ Date _____

Approved by Chief, Plan Review Division _____ Date _____

2.22 Banking Fee (acres)
12.56 Net Debit/Credit to WQ Bank (acres)

Net Reduction in Impervious Area (ac) = 0.67
Reconstructed Impervious Area Treated (ac) = 22.56

Printed Name _____

Concept Site Development Final

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{Ei}	A _{Pi}	%I	A _{Mi}	A _{Li}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I=0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
SB604950	7.55	7.75	75.8	6.43	0.00	0.00	0.20	0.56	0.20	0.76	M-8 Bio-Swales	SB604950 BS-16	0.00	1.56	0.00	1.14	1.56	0.80
											M-8 Bio-Swales	SB604950 BS-15	0.00	0.74	0.00	0.81	0.60	
SB603680	2.39	2.74	77.3	0.00	0.00	0.09	0.35	1.15	0.35	1.50	M-8 Bio-Swales	SB-603680 BS-13	0.00	1.03	0.00	0.27	0.28	-1.22
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB603680 BS-12	0.00	1.23	0.00	0.24	0.30	0.30
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB603680 BS-11	0.00	0.12	0.00	0.49	0.06	0.06
SB600000	0.55	0.55	0.0	0.00	0.00	0.00	0.00	0.00	0.55	0.55	M-8 Bio-Swales	SB600000 BS-03	0.00	1.04	0.00	0.66	0.69	0.14
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-2 Underground Sand Filter (Figure	SB600000 UG-01	0.00	1.46	0.00	1.00	1.46	1.46
SB060100	0.28	0.27	65.3	0.00	0.00	0.00	-0.01	0.14	-0.01	0.13			0.00	0.00	0.00	0.00	0.00	-0.13
SB600492	1.85	1.48	66.3	0.00	0.00	0.00	-0.37	0.93	-0.37	0.56	M-6. Micro-Bioretentation	SB600492 MB-07	0.00	0.04	0.00	2.60	0.04	-0.52
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB600492 BS-06	0.00	0.02	0.00	1.31	0.02	0.02
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB600492 BS-02	0.00	0.18	0.00	0.35	0.06	0.06
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB600492 BS-04	0.00	0.48	0.00	0.24	0.12	0.12
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB600492 BS-05	0.00	0.14	0.00	1.23	0.14	0.14
SB603005	4.67	4.10	41.2	0.00	0.00	0.61	-0.57	2.03	-0.57	1.46	M-6. Micro-Bioretentation	SB603005 MB-08	0.00	0.03	0.00	2.60	0.03	-1.43
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-6. Micro-Bioretentation	SB603005 MB-09	0.00	0.05	0.00	2.60	0.05	0.05
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB600492 BS-10	0.00	0.19	0.00	0.47	0.09	0.09
SB062100	0.00	0.00	47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. _____

Project Description **495/1270 P3 - POI SB701573 to POI SB707519**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____

Date _____

Approved by Chief, Plan Review Division _____

Date _____

0.78

Banking Fee (acres)

4.39

Net Debit/Credit to WQ Bank (acres)

Printed Name _____

Concept Site Development Final

Net Reduction in Impervious Area (ac) = N/A
Reconstructed Impervious Area Treated (ac) = 10.14

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{EI}	A _{PI}	%I	A _{MI}	A _{LI}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
TOTALS	9.39	13.21		0.00	0.00	0.00	3.82	4.50	4.29	8.79			0.00	15.55	1.22		13.96	5.17
SB 701573	0.65	0.41	83.9	0.00	0.00	0.00	-0.24	0.33	-0.24	0.09			0.00	0.00	0.00	0.00	0.00	-0.09
SB 702310	0.97	2.98	81.3	0.00	0.00	0.00	2.01	0.49	2.01	2.50	M-2. Submerged Gravel Wetlands	SB702310 SG-01	0.00	2.34	1.22	2.18	2.95	0.45
SB 71501	0.77	0.00	61.9	0.00	0.00	0.00	-0.77	0.39	-0.77	-0.38			0.00	0.00	0.00	0.00	0.00	0.38
SB 71521	0.07	0.06	82.8	0.00	0.00	0.00	-0.01	0.04	-0.01	0.03			0.00	0.00	0.00	0.00	0.00	-0.03
SB 70000	0.03	0.02	68.8	0.00	0.00	0.00	-0.01	0.02	-0.01	0.01			0.00	0.00	0.00	0.00	0.00	-0.01
SB 70366	2.84	4.47	93.2	0.00	0.00	0.00	1.63	1.42	1.63	3.05	M-6. Micro-Bioretenion	SB70366 MB-01	0.00	0.23	0.00	1.76	0.23	-2.82
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-6 Bioretention (Figure 3.17)	SB70366 BR-02	0.00	5.86	0.00	0.68	3.98	3.98
SB 703640	1.10	1.63	92.8	0.00	0.00	0.00	0.53	0.55	0.53	1.08	M-8 Bio-Swales	SB703640 BS-01	0.00	0.22	0.00	2.60	0.22	-0.86
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB703640 BS-02	0.00	0.09	0.00	2.60	0.09	0.09
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	F-2 Underground Sand Filter (Figure	SB703640 SF-03	0.00	0.50	0.00	1.00	0.50	0.50
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB703640 BS-05	0.00	0.98	0.00	1.08	0.98	0.98
SB 704235	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 704742	0.03	0.00	88.6	0.00	0.00	0.00	-0.03	0.02	-0.03	-0.01			0.00	0.00	0.00	0.00	0.00	0.01
SB 704838	2.26	2.59	60.8	0.00	0.00	0.00	0.33	1.13	0.33	1.46	M-8 Bio-Swales	SB704838 BS-01	0.00	1.07	0.00	0.92	0.98	-0.48
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB704838 BS-03	0.00	0.78	0.00	0.70	0.55	0.55
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB704838 BS-06	0.00	0.35	0.00	2.44	0.35	0.35
	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	M-8 Bio-Swales	SB704838 BS-07	0.00	1.19	0.00	1.21	1.19	1.19
SB 706531	0.03	0.08	88.6	0.00	0.00	0.00	0.05	0.02	0.05	0.07			0.00	0.00	0.00	0.00	0.00	-0.07
SB 706749	0.17	0.21	85.7	0.00	0.00	0.00	0.04	0.09	0.04	0.13			0.00	0.00	0.00	0.00	0.00	-0.13
SB 707001	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
SB 707519	0.47	0.76	35.5	0.00	0.00	0.00	0.29	0.00	0.76	0.76	F-6 Bioretention (Figure 3.17)	SB707519 BR-01	0.00	1.94	0.00	2.60	1.94	1.18

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. _____

Project Description **I495/I270 P3 - POI SB804740 to POI SB801364**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____ Date _____

Approved by Chief, Plan Review Division _____ Date _____

0.64	Banking Fee (acres)
3.64	Net Debit/Credit to WQ Bank (acres)

Net Reduction in Impervious Area (ac) =	N/A
Reconstructed Impervious Area Treated (ac) =	16.94

Printed Name _____

Concept
 Site Development
 Final

POI Data							Water Quality Required				Water Quality Provided						RESULT		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)	
	A _{Ei}	A _{Pi}	%I	A _{Mi}	A _{Li}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I = 0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK	
TOTALS	53.25	60.44		35.50	1.72	0.00	7.19	6.83	11.30	19.85			0.00	24.13	0.00		24.13	4.28	
SB804740	7.74	7.74	52.4	7.74	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB804186	12.72	18.24	40.2	2.03	0.99	0.00	5.52	5.35	5.52	11.86	M-8 Bio-Swales	SB804186 BS-15	0.00	0.03	0.00	2.60	0.03	-11.83	
											M-8 Bio-Swales	SB804186 BS-14	0.00	0.05	0.00	2.60	0.05		
											M-8 Bio-Swales	SB804186 BS-13	0.00	0.05	0.00	2.60	0.05		
											M-8 Bio-Swales	SB804186 BS-12	0.00	0.11	0.00	2.60	0.11		
											M-8 Bio-Swales	SB804186 BS-10	0.00	0.62	0.00	2.16	0.62		
											M-8 Bio-Swales	SB804186 BS-09	0.00	0.09	0.00	1.38	0.09		
											M-8 Bio-Swales	SB804186 BS-08	0.00	0.23	0.00	1.38	0.23		
											M-8 Bio-Swales	SB804186 BS-07	0.00	0.05	0.00	2.60	0.05		
											M-8 Bio-Swales	SB804186 BS-05	0.00	0.27	0.00	1.57	0.27		
											M-8 Bio-Swales	SB804186 BS-11	0.00	0.11	0.00	1.53	0.11		
											M-8 Bio-Swales	SB804186 BS-16	0.00	0.30	0.00	2.60	0.30		
											M-8 Bio-Swales	SB804186 BS-04	0.00	0.08	0.00	1.88	0.08		
											M-6. Micro-Bioretentation	SB804186 MB-06	0.00	0.29	0.00	2.60	0.29		
SB804581	4.09	4.06	68.9	4.03	0.00	0.00	-0.03	0.03	-0.03	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00

MDOT SHA Water Quality Summary Sheet - Version 1.0

PRD Number **20-PR-0040**

Contract No. _____

Project Description **I495/I270 P3 - POI SB804740 to POI SB801364**

6-Digit Watershed: **021402 - Washington Metropolitan Area**

Approved by Chief, Highway Hydraulics Division _____ Date _____

Approved by Chief, Plan Review Division _____ Date _____

0.64	Banking Fee (acres)
3.64	Net Debit/Credit to WQ Bank (acres)

Net Reduction in Impervious Area (ac) = N/A
Reconstructed Impervious Area Treated (ac) = 16.94

Printed Name _____

Concept Site Development Final

POI Data							Water Quality Required				Water Quality Provided						RESULT	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
POI	Existing Impervious within LOD (acres)	Proposed Impervious within LOD (acres)	Existing % Impervious within SSA (0 to 100)	Maintenance Area within LOD (acres)	Loss of Water Quality (acres)	Impervious Area Already Treated (acres)	Net Change in Impervious (acres)	IART from Redevelopment (acres)	IART from New Development (acres)	TOTAL IART (acres)	Type of Treatment	SWM Facility Number	Treatment Provided by Existing BMP (acres)	Treated MDOT SHA Impervious (acres)	Treated Non MDOT SHA Impervious (acres)	P _E Treated (inches)	Effective Impervious Treated (acres)	WQ Summary excess/deficit (acres)
	A _{Ei}	A _{Pi}	%I	A _{Mi}	A _{Li}	A _{RECI}	ΔA _i H = C-B	IART _{RE-DEVL} I=0.5(B-E-G) or 0	IART _{NEW} J = H or C-E-G	IART K = I+J+F			Not included in IAT				IAT	ΣS=ΣR-ΣK
TOTALS	53.25	60.44		35.50	1.72	0.00	7.19	6.83	11.30	19.85			0.00	24.13	0.00		24.13	4.28
SB804038	18.54	18.63	37.5	14.43	0.73	0.00	0.09	0.00	4.20	4.93	M-8 Bio-Swales	SB804038 BS-25	0.00	0.57	0.00	2.60	0.57	-4.36
											M-8 Bio-Swales	SB804038 BS-24	0.00	0.23	0.00	2.60	0.23	
											M-8 Bio-Swales	SB804038 BS-23	0.00	0.40	0.00	2.60	0.40	
											M-8 Bio-Swales	SB804038 BS-22	0.00	0.24	0.00	2.51	0.24	
											M-8 Bio-Swales	SB804038 BS-21	0.00	0.38	0.00	1.12	0.38	
											M-8 Bio-Swales	SB804038 BS-20	0.00	0.31	0.00	2.60	0.31	
											M-8 Bio-Swales	SB804038 BS-19	0.00	0.01	0.00	2.60	0.01	
											M-8 Bio-Swales	SB804038 BS-18	0.00	0.46	0.00	2.60	0.46	
											P-3 Wet Extended Det'n Pond (Fig 3.3)	SB804038 WP-17	0.00	5.95	0.00	1.00	5.95	
SB803886	0.91	1.69	46.7	0.14	0.00	0.00	0.78	0.39	0.78	1.17			0.00	0.00	0.00	0.00	0.00	-1.17
SB803770	1.34	1.98	52.1	0.70	0.00	0.00	0.64	0.32	0.64	0.96			0.00	0.00	0.00	0.00	0.00	-0.96
SB801364	7.91	8.10	58.0	6.43	0.00	0.00	0.19	0.74	0.19	0.93	P-3 Wet Extended Det'n Pond (Fig 3.3)	SB801364 WP-03	0.00	7.55	0.00	1.00	7.55	6.62