

Sand Filter As-Built Checklist

Project:	 Date:	_

Sand Filter Type (Open/Underground) Percent Impervious Drainage Area		Description	<u>Design</u>	As-Built
Drainage Area	1	Sand Filter Type (Open/Underground)		
4 Water Quality Volume a Adjusted Water Quality Volume 5 Sediment Chamber Specifications: a Bottom elevation b Depth c Surface area (ft³) d Volume (ft³) available 6 Sand Filter Chamber Specifications: a Elevation at top of filter media b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) Percent of water quality volume stored in sediment chamber & facility Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) Is uniform positive drainage provided to prevent ponding? (Y/N) Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance acreement Intake Form submitted to	2	Percent Impervious		
a Adjusted Water Quality Volume 5 Sediment Chamber Specifications: a Bottom elevation b Depth c Surface area (ft²) d Volume (ft³) available 6 Sand Filter Chamber Specifications: a Elevation at top of filter media b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) 7 Percent of water quality volume stored in sediment chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling If open, All embankments stabilized with non-clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance acreement Intake Form submitted to	3	Drainage Area		
5 Sediment Chamber Specifications: a Bottom elevation b Depth c Surface area (ft²) d Volume (ft³) available 6 Sand Filter Chamber Specifications: a Elevation at top of filter media b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) 7 Percent of water quality volume stored in sediment chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling If open, All embankments stabilized with non-clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) Is uniform positive drainage provided? (Y/N) Is suniform positive drainage provided to prevent ponding? (Y/N) Maintenance acreement Intake Form submitted to	4	Water Quality Volume		
a Bottom elevation b Depth c Surface area (ft²) d Volume (ft³) available 6 Sand Filter Chamber Specifications: a Elevation at top of filter media b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) Percent of water quality volume stored in sediment chamber & facility Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet elevation of bypass weir (if applicable) D Dissipator pad length & width II If underground, elevation of top of vault ceiling If open, All embankments stabilized with non-clumping turf grass (Y/N) Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) Is Is sand filter meeting 2 in/hr drawdown? (Y/N) Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance agreement Intake Form submitted to	a	Adjusted Water Quality Volume		
b Depth c Surface area (ft²) d Volume (ft³) available 6 Sand Filter Chamber Specifications: a Elevation at top of filter media b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) Percent of water quality volume stored in sediment chamber & facility Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non-clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance agreement Intake Form submitted to	5	Sediment Chamber Specifications:		
c Surface area (ft²) d Volume (ft³) available 6 Sand Filter Chamber Specifications: a Elevation at top of filter media b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) 7 Percent of water quality volume stored in sediment chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non-clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) Maintenance screement Intake Form submitted to	a	Bottom elevation		
d Volume (ft³) available 6 Sand Filter Chamber Specifications: a Elevation at top of filter media b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) 7 Percent of water quality volume stored in sediment chamber & facility chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non-clumping turf grass (Y/N) Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 13 Is sand filter meeting 2 in/hr drawdown? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) Maintenance acreement Intake Form submitted to	b	Depth		
6 Sand Filter Chamber Specifications: a Elevation at top of filter media b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) 7 Percent of water quality volume stored in sediment chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non-clumping turf grass (Y/N) Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 13 Is sand filter meeting 2 in/hr drawdown? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is uniform positive drainage provided to prevent ponding? (Y/N) 16 Maintenance schedule provided? (Y/N) 17 Maintenance agreement Intake Form submitted to	С	Surface area (ft²)		
a Elevation at top of filter media b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) 7 Percent of water quality volume stored in sediment chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non-clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 panding? (Y/N) 17 Maintenance schedule provided? (Y/N) Maintenance agreement Intake Form submitted to	d	Volume (ft³) available		
b Depth of filter media layers (sand/stone) c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) 7 Percent of water quality volume stored in sediment chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non-clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) Maintenance agreement Intake Form submitted to	6	Sand Filter Chamber Specifications:		
c Filter bed area d Volume (ft³) available e Type & size of filter media (sand/stone) Percent of water quality volume stored in sediment chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non-clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) 18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	a	Elevation at top of filter media		
d Volume (ft³) available e Type & size of filter media (sand/stone) 7 Percent of water quality volume stored in sediment chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non-clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) Maintenance agreement Intake Form submitted to	b	Depth of filter media layers (sand/stone)		
e Type & size of filter media (sand/stone) 7 Percent of water quality volume stored in sediment chamber & facility 8 Underdrain System Specifications: a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non-clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) 18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	С	Filter bed area		_
Percent of water quality volume stored in sediment chamber & facility Underdrain System Specifications: Size & type of perforated pipe Number of branch lines Invert elevation of underdrain Invert elevation of outflow pipe at outlet Elevation of bypass weir (if applicable) Dissipator pad length & width If underground, elevation of top of vault ceiling If open, All embankments stabilized with non-clumping turf grass (Y/N) Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) Is SHWT separation provided? (Y/N) Is sand filter meeting 2 in/hr drawdown? (Y/N) Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance schedule provided? (Y/N) Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	d	Volume (ft³) available		
chamber & facility 8	e	Type & size of filter media (sand/stone)		
chamber & facility 8	_	Percent of water quality volume stored in sediment		
a Size & type of perforated pipe b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non- clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) 18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	1	chamber & facility		
b Number of branch lines c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non- clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) 18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	8	Underdrain System Specifications:		
c Invert elevation of underdrain d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non- clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) 18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	a	Size & type of perforated pipe		
d Invert elevation of outflow pipe at outlet 9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non- clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) 18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	b	Number of branch lines		
9 Elevation of bypass weir (if applicable) 10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non- clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) 18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	С	Invert elevation of underdrain		
10 Dissipator pad length & width 11 If underground, elevation of top of vault ceiling 12 If open, All embankments stabilized with non- clumping turf grass (Y/N) 13 Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) 18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	d	Invert elevation of outflow pipe at outlet		
If underground, elevation of top of vault ceiling If open, All embankments stabilized with non- clumping turf grass (Y/N) Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) Is SHWT separation provided? (Y/N) Is sand filter meeting 2 in/hr drawdown? (Y/N) Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance schedule provided? (Y/N) Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	9	Elevation of bypass weir (if applicable)		
If open, All embankments stabilized with non- clumping turf grass (Y/N) Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) Is SHWT separation provided? (Y/N) Is sand filter meeting 2 in/hr drawdown? (Y/N) Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance schedule provided? (Y/N) Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	10	Dissipator pad length & width		
clumping turf grass (Y/N) Does the SCM safely pass the 100 yr/24 hr storm event? (Y/N) Is SHWT separation provided? (Y/N) Is sand filter meeting 2 in/hr drawdown? (Y/N) Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance schedule provided? (Y/N) Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	11	If underground, elevation of top of vault ceiling		
event? (Y/N) 14 Is SHWT separation provided? (Y/N) 15 Is sand filter meeting 2 in/hr drawdown? (Y/N) 16 Is uniform positive drainage provided to prevent ponding? (Y/N) 17 Maintenance schedule provided? (Y/N) 18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	12	•		
Is sand filter meeting 2 in/hr drawdown? (Y/N) Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance schedule provided? (Y/N) Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	13	V 1		
Is sand filter meeting 2 in/hr drawdown? (Y/N) Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance schedule provided? (Y/N) Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	14	Is SHWT separation provided? (Y/N)		
Is uniform positive drainage provided to prevent ponding? (Y/N) Maintenance schedule provided? (Y/N) Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	15	Is sand filter meeting 2 in/hr drawdown? (Y/N)		
18 Engineer's certification on as-builts (Y/N) Maintenance agreement Intake Form submitted to	16	Is uniform positive drainage provided to prevent		
Maintenance agreement Intake Form submitted to	17	Maintenance schedule provided? (Y/N)		
Maintenance agreement Intake Form submitted to	18	Engineer's certification on as-builts (Y/N)		
City Attorney (Y/N)	19			



Sand Filter As-Built Checklist

Proj	ect:	Date:		
20	Maintenance easement metes & bounds & plat submitted to City Attorney (Y/N)			
21	Marked up as-built drawing included (Y/N)			
pr com	ENGINEER'S CERTIFE STORMWATER CONTROCCEPTIFY that, persuant to generally accepted engine rofessional opinion that the stormwater control(s) lepleted in conformance with the plans and specification volume available, and is functioning as designed NCAC 2H.16	OL COMPLETION ering standards in the comm abeled as tions approved on d and complies with the requ	has been , has its full	
P.E.	SEAL:			
SICN	NATUDE.	DATE.		