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APPROVED
City of Florence
Community Development
Department
CO 31 SUB

Three Mile Prairie Subdivision Phase 1 Development Stormwater Narrative and Calculations Florence, Oregon

January 29, 2021



Prepared for:

Black Forest Development, LLC 545 South Valley View Drive #153 St. George, UT 84770

Prepared by:

EGR & Associates, Inc. 2535B Prairie Road Eugene, Oregon, 97402



Narrative

The project site can be found on Lane County Tax Assessor's Map 18-12-15-00, Tax Lot 200, and Map 18-12-14 Tax Lots 1301 and 2100. They are located within both the Florence Urban Growth Boundary (UGB) and the incorporated City limits. Tax Lot 200 is zoned Single Family Residential. Tax Lot 1301 is zoned North Commercial District, and Tax Lot 2100 is zoned Service/Industrial District. When fully developed, the Three Mile Prairie Subdivision will consist of single family lots on Tax Lot 200, a public street access on Tax Lot 1301 to Highway 101 at the Munsel Lake Road intersection, and public street access to Highway 101 and commercial lots on Tax Lot 2100. Phase 1 development includes a public street and two commercial lots on Tax Lot 2100, 54 residential lots and public streets on the northeasterly quadrant of Tax Lot 200, and a gravel emergency access adjacent to the east boundary of Tax Lot 200 and across Tax Lot 1301 to Highway 101.

Most of the property located on Tax Lot 200 is an active sand dune; therefore, the topography can vary widely throughout the year. However, the site generally maintains a consistent elevation range of between 85-130 feet, with the location of these high points and lows points shifting with the seasonal winds. Also included on the site is a delineated small area of wetlands along the southwestern property boundary. The site is currently undeveloped and is being operated as a commercial sand mining business. The site is also surrounded on the north, south, and west sides by active sand dunes. These adjacent dunes are on land currently owned by the Bureau of Land Management, Lane County, and others and remain undeveloped.

There are no defined surface water channels located on the project site. Additionally, none of the adjacent lands naturally flow surface water onto or away from the site. Since nearly the entire project site is located on dune sand, surface water does not "flow" off the project area. Instead, the surface water almost immediately infiltrates into the sand dunes and is integrated into the ground water system.

Soils

According to the SCS Lane County Soil Survey the project site consists of three soil types, approximately 88% Dune Sand (NRCS Soil No.44), 11% Yaquina Loamy Fine Sand (NRCS Soil No.140), and 1% Waldport Fine Sand, 0-12 percent slopes (NRCS Soil No.131C).

Dune Sand described as deep, excessively drained, active dunes along the coast. Permeability is described as "very rapid." The sand is described as light grey and fine with slow runoff, and the hazard of water erosion is slight.

Yaquina Loamy Fine Sand is described as deep somewhat poorly drained, interdune areas. Runoff is described as slow to ponding with a moderate hazard of water erosion.

Waldport Fine Sand is described as deep excessively drained soil with slow runoff and a low hazard of water erosion.

Vegetation

There is no significant vegetation on the property as nearly the entire site is located on an active sand dune.

Groundwater

The groundwater table elevations near the project vary depending upon seasonal and cyclical patterns. The documented groundwater gradient is generally southwest toward the Siuslaw River with a gradient of approximately 1 foot in 200 feet (0.005 feet per foot) across the site. The seasonal high groundwater elevation can be observed at the high-water line surveyed at an elevation of 85 feet near the wetlands in the southwestern corner of the property. Most of the project site will be final graded at least 10-35 feet above this elevation.

Existing Conditions

Under existing conditions, the site rapidly discharges stormwater directly into the groundwater aquifer via infiltration through the sand dunes. This site is part of the larger Dunal Aquifer System. During high groundwater conditions water levels within existing wetlands to the southwest of the property would be a reflection of seasonal high water tables. The direction of the groundwater flow is generally southwesterly across the site. Since the potential stormwater impacts from this development are proposed to be handled entirely by infiltration facilities, through this same dune system, down gradient groundwater and surface water flow regimes will remain unaffected, thus requiring no specific mitigation.

The receiving body of water for this site is the groundwater aquifer. The elevation of the aquifer varies seasonally and cyclically. Since the aquifer is very permeable and recharged through infiltration of precipitation, the groundwater elevation does not rapidly rise and fall during a large rainfall event like a surface water stream or other body of water. The change in aquifer elevation due to a large rainfall event does not directly affect the design considerations for this site and can be no more than the immediate filling of the voids between sand particles or about 2 feet from a 6-inch precipitation event (approximately 25% void ratio).

Proposed Stormwater System

The project site is unique in that there is no classic receiving body of surface water, such as a river, lake, or stormwater infrastructure. Stormwater dissipates solely through infiltration into the groundwater. Due to this unique circumstance, a stormwater system has been designed based entirely on infiltration. The on-site stormwater system is comprised of a public system and a private system.

The public system will consist of facilities to collect and dispose of the runoff from the roads, sidewalks, and driveways located in street rights-of-way. The public system will collect the runoff from these areas and then route the flows through roadside vegetated stormwater swales and planters to be disposed of via surface water infiltration. The public system will be installed at time of public street improvements. Calculations supporting the sizing of the Phase 1 system are included herein.

The private system will consist of directing the roof drains from the proposed houses and from drives into individual vegetated swale, rain garden, or stormwater planter. These facilities will ensure the retention of stormwater on the property during a high rainfall event while also addressing water quality through vegetated filtration. Private systems will be designed and installed at time of individual lot development; thus, the design of the Phase 1 private system is not included in this report.

Public System Detailed Description

A system of vegetated stormwater facilities located in the planting strip between the street curb and setback sidewalk will receive all runoff from roadway pavement, sidewalks, and driveways. Both the sidewalks and roadways will generally be sloped towards the curb and gutter, where runoff will ultimately be collected and routed into the stormwater facilities through curb cuts.

Stormwater facilities will consist of either vegetated swales or vegetated planters. Preference is given to vegetated swales, but vegetated planters are incorporated into the system where there is insufficient space for an adequately sized swale. The stormwater facilities are in the planting strip between planned driveway locations. Given the available swale length between driveways, the swales typically need to be 12.7 feet in width (measured between back of street curb and front of the sidewalk) for adequate sizing. To achieve this width, the setback sidewalk is typically located outside the right-of-way and on the lot within the public utility easement.

Planters are incorporated in lieu of swales at locations where vertical walls are needed to increase surface area and storage capacity. At these locations, the planter inside width may vary from 4.2 feet to 11.7 feet. On streets where there is no lot access (i.e., south side of Road 1 and both sides of Road 2) planters are typically used to keep the sidewalk inside the street right-of-way so retaining walls are not needed between the back of walk and building pads. At these planter locations, the planter inside width is typically 4.2 feet with a 30-inch shelf between the planter and back of curb to allow for on-street parking adjacent to the planters. The available ponding depth of water (measured from gutter bar down to top of growing medium) for both swale and planter facilities is typically 6-inches; although some facilities may have a greater ponding depth for additional storage where the surface area cannot be increased due to length and width constraints.

For the purposes of the final stormwater system design of Phase 1 development the infiltration rate of dune sand was assumed at a conservative 10 inches per hour. This value is based on previous soil infiltration tests performed by EGR on properties located in the same area with similar soil conditions (dune sand) as this project site. Typical test transmissivity values recorded on other similarly situated projects in the north Florence area are between 100 and 300 inches per hour per foot of head. Transmissivity values in open dune sand formations such as these are commonly more than 500 inches per hour per foot of head.

The Florence Stormwater Manual limits the design infiltration rate to the infiltration rate of the growing medium which is given as a maximum 4 inches per hour. The resulting facility sizes and depth were designed to store a 25-year storm event at this infiltration rate. The retention of stormwater runoff in the stormwater swales and planters and gradual soil infiltration serves to reduce the overall peak flow rates from the site. Since shallow groundwater does not occur on the site additional high groundwater retention is not necessary

Hydrologic/Hydraulic Calculations

The Florence Stormwater Manual defines the storm rainfall depths as shown in Table 1 below.

 Return Period (years)
 24-hour Rainfall Depth (inches)

 Water quality
 0.83

 2
 3.46

 10
 4.48

 25
 5.06

 100
 5.95

Table 1 - Design Storms

The site has been divided into five basins based on street alignments as follows:

Basin 1 Road 1

Basin 2 Road 2

Basin 3 Road 3

Basin 4 Road 4

Basin 5 Oak Street

Each basin is further subdivided based on street drainage patterns and block lengths. Refer to Post Developed Basin Map in Attachment 1 for a graphical representation of these drainage areas.

Public stormwater facilities were sized per the Presumptive Approach using the City of Eugene Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet. This software system was selected in lieu of the Portland Presumptive Approach Calculator (PAC) because the City of Eugene's version has the ability for the user to change rainfall depths whereas the Portland PAC is developed specifically for Portland's rainfall depths, which are less than the Florence area and would thus result in undersized facilities.

For purpose of these calculations the facilities were designed to retain and treat runoff from the impervious surfaces alone. It is still assumed that the dune sand will produce little to no additional stormwater runoff and the collection facilities will only be necessary for impervious surface added to the site.

A facility sizing worksheet was created for each sub-basin to calculate the required length of stormwater swale or planter needed to manage the impervious area in each sub-basin. The facility parameters include:

Planter facility side slopes = 0 to 1 (vertical)

Planter typical inside width = 4.2 feet (but may vary)

Swale facility side slopes = 3 to 1

Swale typical top width = 12.7 feet

Minimum ponding depth = 6 inches (but may be greater)

Depth of growing medium = 18 inches

Design soil infiltration rate = 4 inches per hour (for growing medium)

Destination design soil infiltration rate = 5 inches per hour (assumed for underlying soils)

NRCS curve number for impervious surfaces = 98

A copy of the worksheet printout for each sub-basin is included in Attachment 2.

Escape Route

Phase 1 streets generally slope northerly and easterly with the lowest elevation being at the east end of Road 1 where it connects to Highway 101. In event of extreme inundation of stormwater facilities for storm events that exceed the runoff volume generated from a 25-year recurrence interval, gutter flow from most of the Phase 1 development will drain to the intersection at Road 1 and Highway 101 and ultimately into the Highway 101 roadside ditch. The Florence Stormwater Management Plan shows that the project area is situated in a City of Florence drainage basin that generally drains into Highway 101 roadside ditches where most of the water infiltrates before it can leave the basin. If large enough flows occur, the topography of the basin would direct flow southerly toward Munsel Creek.

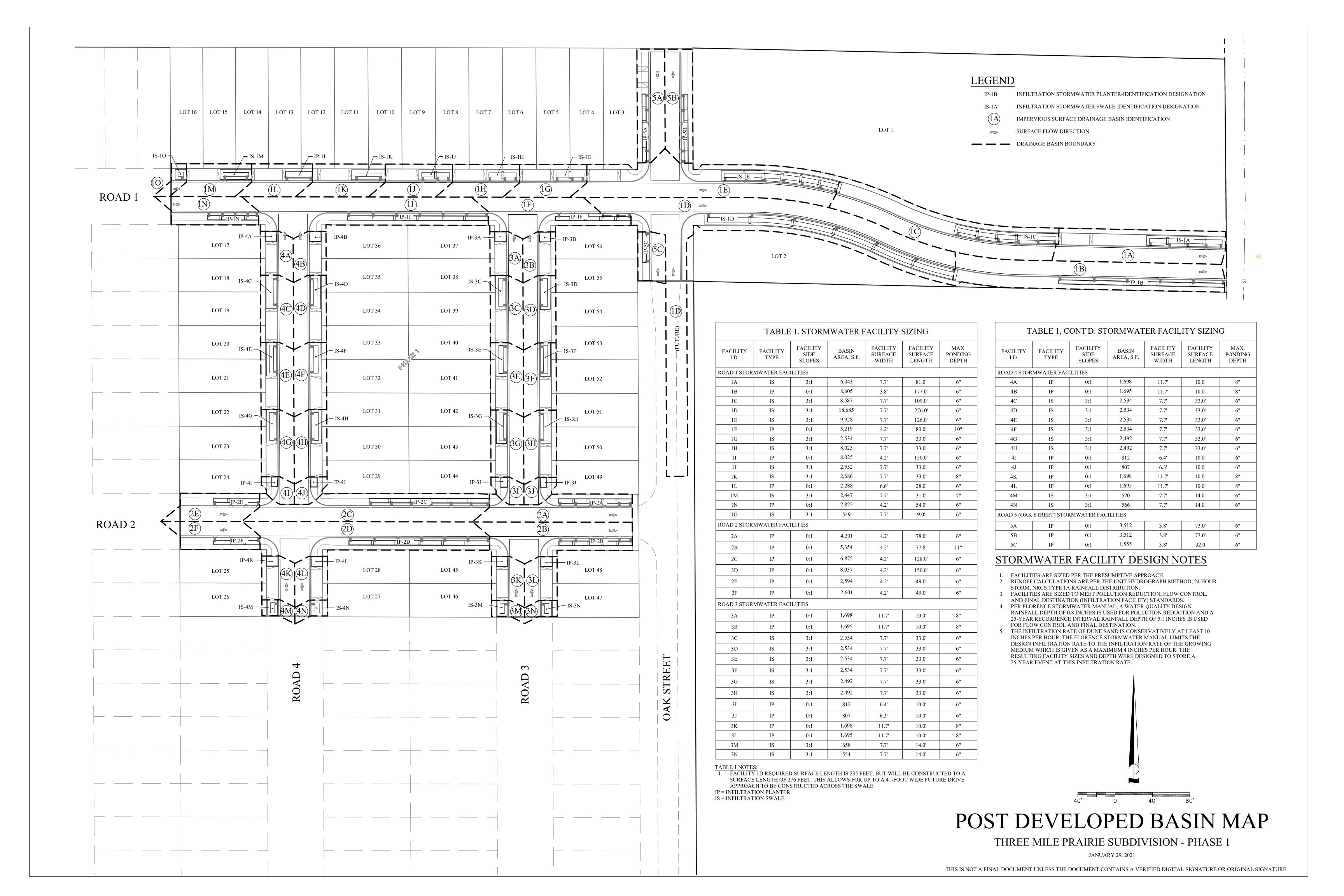
Conclusions

The Phase 1 Stormwater Management System for the Three Mile Prairie Subdivision has been developed to address the criteria outlined in the Florence City Code and Florence Stormwater Manual meeting the requirements for both stormwater retention and quality.

Retention of stormwater runoff from street and sidewalk surfaces will be provided using public street vegetated facilities per the Florence Stormwater Manual. Stormwater quality will also be mitigated by these same facilities. These facilities were designed using the 25-year storm event defined by the City of Florence.

Attachment 1 – Post Developed Basin Map

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Attachment 2 – Presumptive Approach Calculations

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Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie		Date: 1/4/2021		
Project Address:	18-12-15-00-00200		Permit Number: NA		
Daginnari	Florence, OR		Catchment ID: 1A		
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Instructions:					
1. Complete this form for	each drainage catchment in th	e project site that is to be size	ed per the Presumptive Approach.		
	_		map to correlate the appropriate		
calculations with the fa	· ·				
3. The maximum drainag	ge catchment to be modeled pe	r the Presumptive Approach i	s 1 acre (43,560 SF)		
4.For infiltration facilities	in Class A or B soils where no	infiltration testing has been pe	erfromed use an infiltration rate of	0.5 in/hr.	
	maximum soil infiltration rate of				
Design Requirements:					
Choose "Yes" from the d	ropdown boxes below next to the	ne design standards requirem	ents for this facility.		
Pollution Reduction	on (PR) Yes				
Flow Cont	` '				
Destinati	on (DT) Yes *An infiltration	on facility must be chosen as the facility	ty type to meet destination requirements		
Site Data-Post Develop	ment				
Total Square Feeter	o Importious Area = 62/	12 oaft Total S	Cause Footogo Bondous Areas	0 sqft	
Impervious Area CN= 98 Pervious Area CN= 85					
Total Square Footage	of Drainage Area=	13 sft Time of Con	centration Post Development=	5 min	
-		98			
Site Data-Pre Developn	<u> </u>	n is only used if Flow Contro	ol is required)		
		_		E main	
	e-Development CN=	Time of Co	ncentration Pre-Development=	5 min	
Soil Data					
		in/hr (See Note 4)	Destination Design=	5 in/hr	
Design So	oil Infiltration Rate=	4 in/hr	Soil Infiltration Rate		
Design Storms Used Fo	or Calculations				
Requirement	Rainfall Depth Design S	torm			
Pollution Reduction	0.8 inches Water Qu				
Flow Control	5.1 inches Flood Cor				
Destination	5.1 inches Flood Cor	ntrol			
Facility Data					
•	Facility Type= Infiltration	n Stormwater Planter	Facility Surface Area=	623.7 sqft	
		.7 ft	Facility Surface Perimeter=	177.4 ft	
		31 ft	Facility Bottom Area=	367 sqft	
F	acility Side Slopes=	3 to 1	Facility Bottom Perimeter=	165 ft	
	Ponding Depth	-	,		
	mwater Facility=	6 in	Basin Volume=	249.8 cf	
Depth of Grow	Depth of Growing Medium (Soil)= 18 in Ratio of Facility Area to Impervious Area 0.098				

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Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.026 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	331 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Me	Yes Facility Sizing Meets Pollution Reduction Standards?					
YES Meets Requi	irement of No Facility Flooding?					
YES Meets Requi	irement for Maximum of 18 Hou	r Drawdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.194 cfs	Peak Facility Overflow Rate= 0.052 cfs				
Total Runoff Volume to Stormwater		,				
Facility =	2544 cf	Total Overflow Volume= 65 cf				
		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours					
Pro Davolanment Puneff Data						
Pre-Development Runoff Data Peak Flow Rate = 0.194 lcfs						
Total Runoff Volume = 2549 cf						
Yes Facility Sizing Me	ets Flow Control Standard	s?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.194 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater Facility =	2544 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	5.9 in	Total Overnow Volume-				
Drawdown Time=	0.2 hours					
Dianaomi Tillo-						
Yes Facility Sizing Meets Destination Standards?						
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?						

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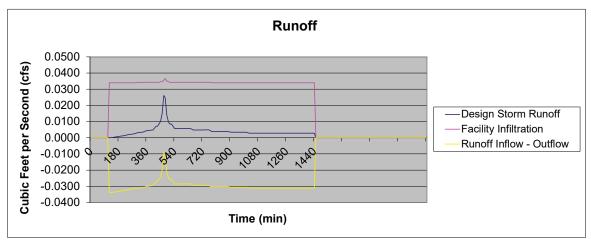
Project Name: Permit Number: Catchment ID:

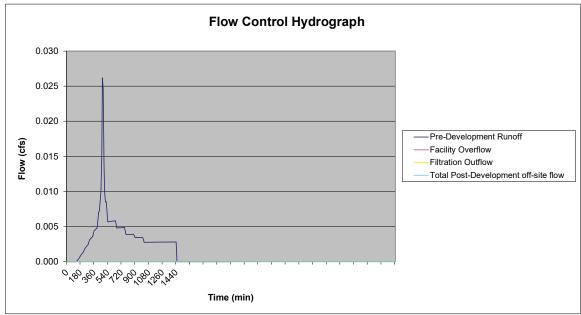
Design Run:

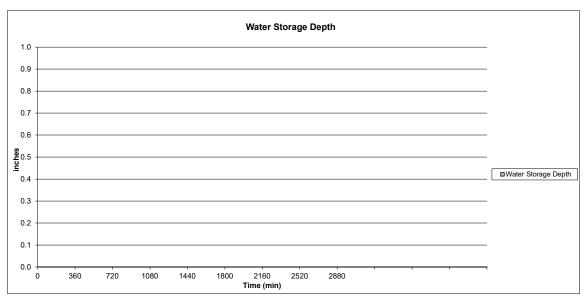
Three Mile Prairie

NA 1A

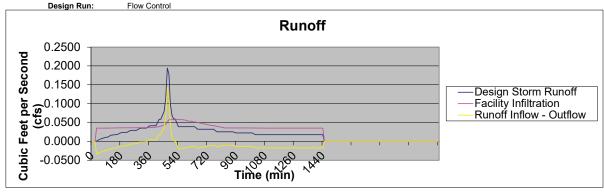
Pollution Reduction

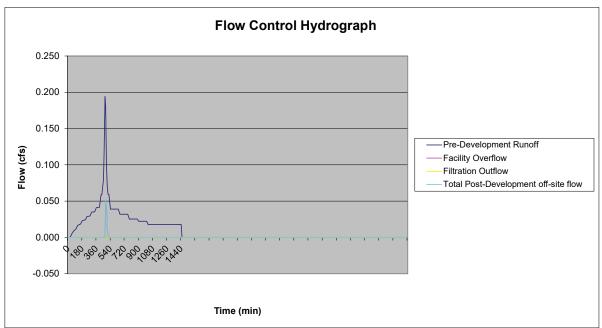


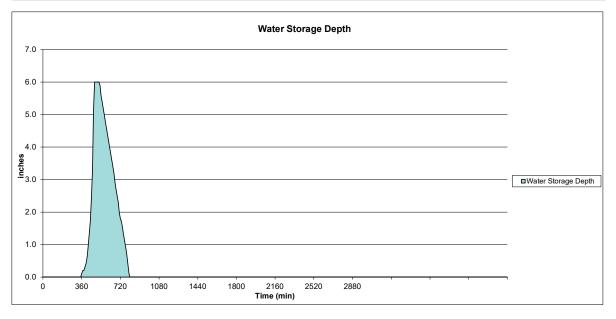




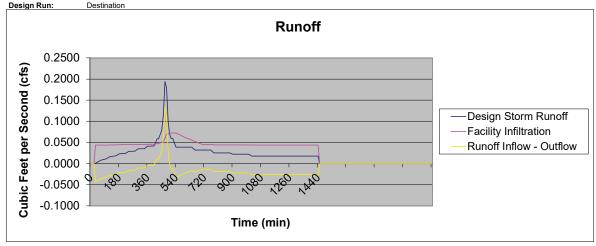
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1A
Design Run: Flow Control

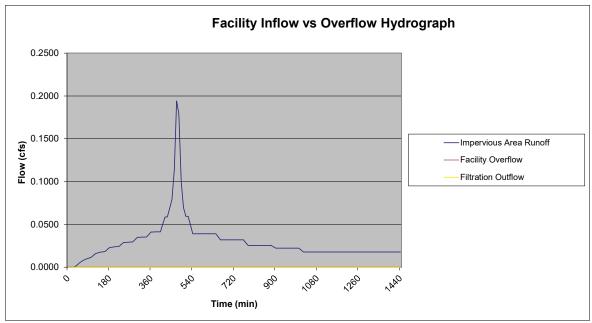


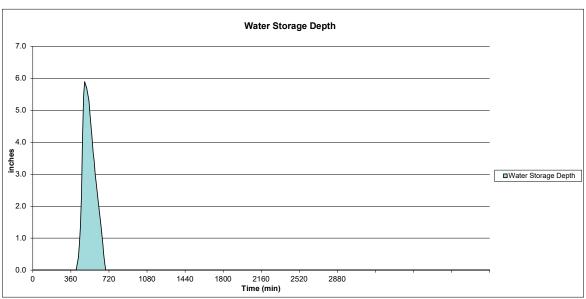




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1A
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie			Date: 12/30/202	<u>0</u>
Project Address:	18-12-15-00-00200			Permit Number: NA	
	Florence, OR			Catchment ID: <u>1B</u>	
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Instructions:					
	r each drainage catchm	nent in the project site th	nat is to be siz	zed per the Presumptive Appro	pach
	-			map to correlate the appropris	
calculations with the f		aomity ocoramiatou mart		map to conclude the appropri	
	,	deled per the Presumptiv	ve Approach	is 1 acre (43.560 SF)	
				perfromed use an infiltration ra	te of 0.5 in/hr.
		on rate of 2.5 in/hr for top	-		
			99		
Design Requirements					
Choose "Yes" from the	dropdown boxes below	next to the design stand	lards requirer	nents for this facility.	
Pollution Reducti	, ,				
Flow Cont	rol (FC) Yes				
Destinati	on (DT) Yes	An infiltration facility must be ch	hosen as the faci	lity type to meet destination requireme	nts
	·				
Site Data-Post Develor	oment				
Total Square Footag	e Impervious Area=	8605 sqft	Total	Square Footage Pervious Ar	rea= 0 sqft
-	npervious Area CN=	98		Pervious Area (
reivious Alea ON-					
Total Square Footag	e of Drainage Area=	8605 sft	Time of Co	ncentration Post Developme	ent= 5 min
-	ighted Average CN=	98		·	
Site Data-Pre Developr	ment (Data in this	s section is only used i	if Flow Cont	ol is required)	
•					- material Constitution
	e-Development CN=	98	Time of C	oncentration Pre-Developme	ent= 5 min
Soil Data					
	oil Infiltration Rate=	10 in/hr (See Note	e 4)	Destination Desi	gn= 5 in/hr
Design S	oil Infiltration Rate=	4 in/hr		Soil Infiltration F	Rate
Design Storms Used F	or Calculations				
Requirement	Rainfall Depth D	Design Storm			
Pollution Reduction		Vater Quality			
Flow Control		Flood Control			
Destination		Flood Control			
Facility Data	<u>-</u>				
		nfiltration Stormwater	Planter	Facility Surface Ar	
	Surface Width=	3.8 ft		Facility Surface Perime	
	Surface Length=	177 ft		Facility Bottom Ar	
	acility Side Slopes=	0 to 1		Facility Bottom Perime	ter= 362 ft
	Ponding Depth	Glic		Daala Valee	226.2
	mwater Facility=	6 in	Datis of F	Basin Volur	
Depth of Growing Medium (Soil)= 18 in Ratio of Facility Area to Impervious Area 0.078					

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Peak Flow Rate to Stormwater Facility = 0.036 cfs Total Runoff Volume to Stormwater Facility = 448 cf Max. Depth of Stormwater in Facility = 0.0 in					
Facility = 448 cf Total Overflow Volume= 0 cf Max. Depth of Stormwater in Facility= 0.0 in					
Max. Depth of Stormwater in Facility= 0.0 in					
Drawdown Times 0.0 lbours					
Drawdown Time= 0.2 hours					
Yes Facility Sizing Meets Pollution Reduction Standards?					
YES Meets Requirement of No Facility Flooding?					
YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.263 cfs Peak Facility Overflow Rate= 0.073 cfs					
Total Runoff Volume to Stormwater					
Facility = 3451 cf Total Overflow Volume= 106 cf					
Peak Off-Site Flow Rate					
Max. Depth of Stormwater in Facility = 6.0 in Filtration Facility Underdrain N\A cfs					
Drawdown Time= 0.2 hours					
Pro Development Buneff Deta					
Pre-Development Runoff Data Peak Flow Rate = 0.263 cfs					
Total Runoff Volume = 3459 cf					
Yes Facility Sizing Meets Flow Control Standards?					
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.263 cfs Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater Facility = 3451 cf Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility= 5.9 in					
Drawdown Time= 0.2 hours					
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?					

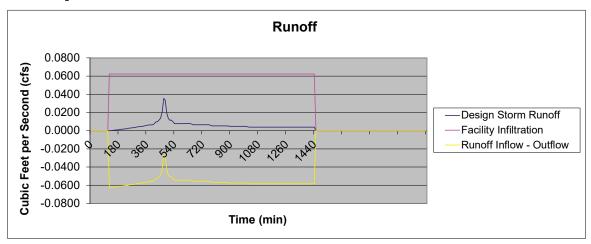
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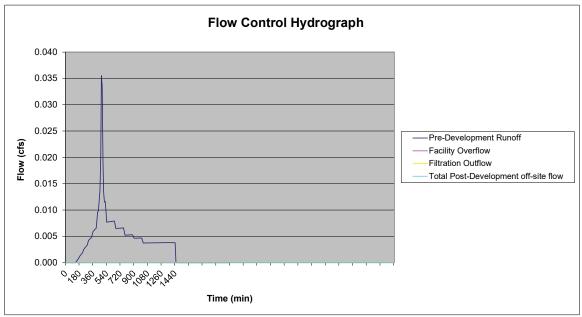
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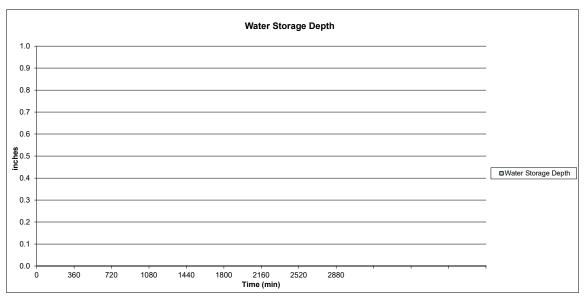
Three Mile Prairie NA 1B

Design Run:

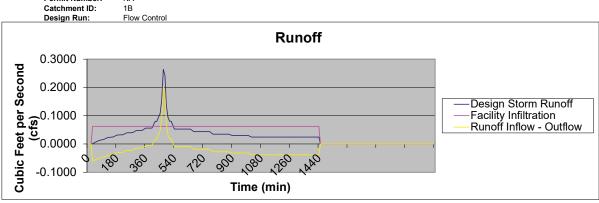
Pollution Reduction

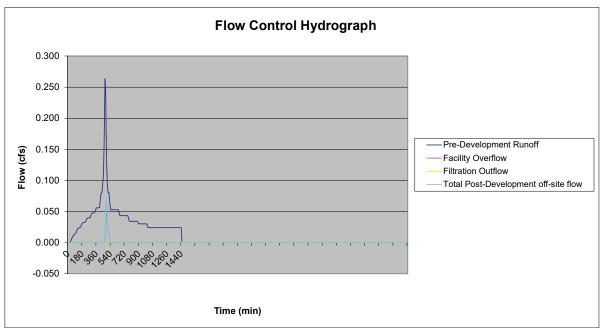


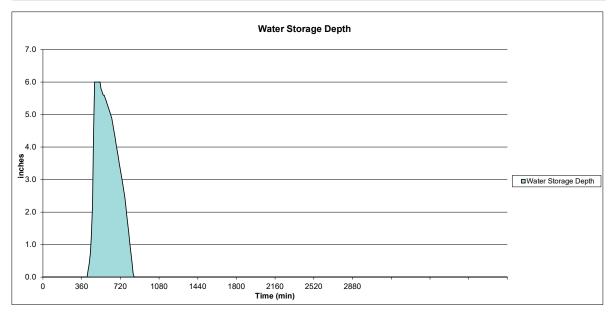




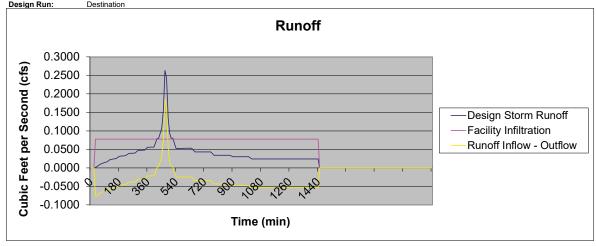
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1B

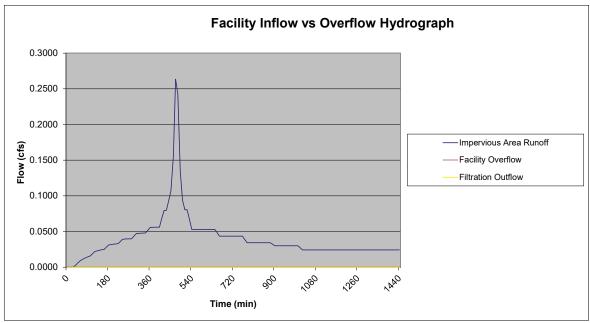


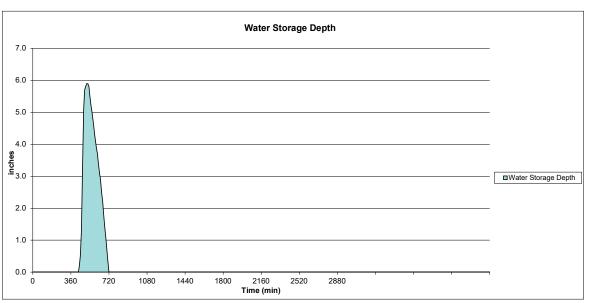




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1B
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie		Date: 12/30/2020			
Project Address:	18-12-15-00-00200		Permit Number: NA			
Daginnari	Florence, OR		Catchment ID: 1C			
Designer:	Clint Beecroft					
Company:	EGR & Associates					
Instructions:						
Complete this form for	each drainage catchment in	the project site that is to be s	ized per the Presumptive Approach	ı .		
	=		n map to correlate the appropriate			
calculations with the fa						
3. The maximum drainag	յе catchment to be modeled լ	per the Presumptive Approac	n is 1 acre (43,560 SF)			
4.For infiltration facilities	in Class A or B soils where n	no infiltration testing has been	perfromed use an infiltration rate of	f 0.5 in/hr.		
For all facilities use a	maximum soil infiltration rate	of 2.5 in/hr for topsoil/growing	g medium.			
Design Requirements:						
Choose "Yes" from the d	ropdown boxes below next to	the design standards require	ments for this facility.			
Pollution Reduction	on (PR) Yes					
Flow Cont						
Destinati						
Destillati	An inilities	ation racility must be chosen as the ra	cility type to meet destination requirements			
Site Data-Post Develop	ment					
Total Square Footag	o Imporvious Aroa-	587 sqft Tota	Square Footage Pervious Area-	0 sqft		
Total Square Footage Impervious Area						
Impervious Area CN= 98 Pervious Area CN= 85						
Total Square Footage	of Drainage Area=	S587 sft Time of C	oncentration Post Development=	5 min		
-	ghted Average CN=	98	on continue on the control of the co			
Site Data-Pre Developn	<u> </u>	on is only used if Flow Con	trol is required)			
	· .			Ein		
	e-Development CN=	98 Time of 0	Concentration Pre-Development=	5 min		
Soil Data						
	oil Infiltration Rate=	10 in/hr (See Note 4)	Destination Design=			
Design So	oil Infiltration Rate=	4 in/hr	Soil Infiltration Rate			
Design Storms Used Fo	or Calculations					
Requirement	Rainfall Depth Design	Storm				
Pollution Reduction	0.8 inches Water (
Flow Control	5.1 inches Flood C	Control				
Destination	5.1 inches Flood C	Control				
Facility Data						
•	Facility Type= Infiltrat	tion Stormwater Planter	Facility Surface Area=	839.3 sqft		
	Surface Width=	7.7 ft	Facility Surface Perimeter=	233.4 ft		
		109 ft	Facility Bottom Area=			
Fa	acility Side Slopes=	3 to 1	Facility Bottom Perimeter=			
	Ponding Depth		,			
in Stor	in Stormwater Facility= 6 in Basin Volume= 336.6 cf					
Depth of Grow	ving Medium (Soil)=	18 in Ratio of	Facility Area to Impervious Area=	0.098		

1/27/2021-11:36 AM

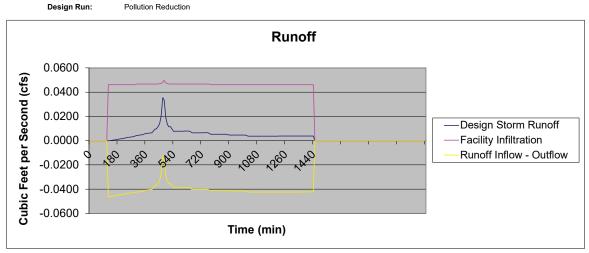
Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.035 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	448 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Me	ets Pollution Reduction S	tandards?			
YES Meets Requi	irement of No Facility Flooding	?			
YES Meets Requi	irement for Maximum of 18 Hou	r Drawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.263 cfs	Peak Facility Overflow Rate= 0.073 cfs			
Total Runoff Volume to Stormwater					
Facility =	3444 cf	Total Overflow Volume= 91 cf			
		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Due Development Duneff Dete					
Pre-Development Runoff Data Peak Flow Rate = 0.263 lcfs					
Total Runoff Volume = 3451 cf					
Total Kulloli Volulile – 3431 Ci					
Yes Facility Sizing Me	ets Flow Control Standard	ls?			
YES Meets Requi					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.263 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater		7.110 # 111			
Facility =	3444 cf 5.9 in	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility= Drawdown Time=					
Drawdown Time= 0.2 hours					
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?					

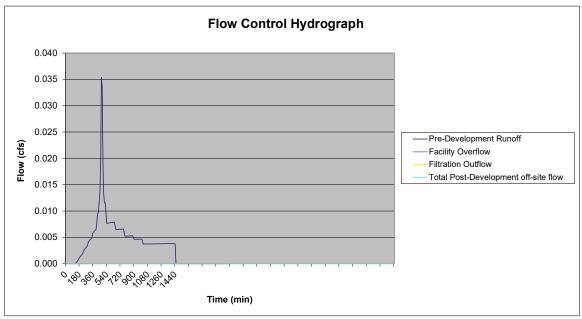
1/27/2021-11:36 AM 2

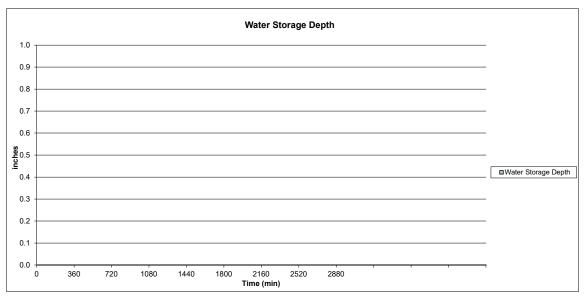
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 1C

Pollution Reduction

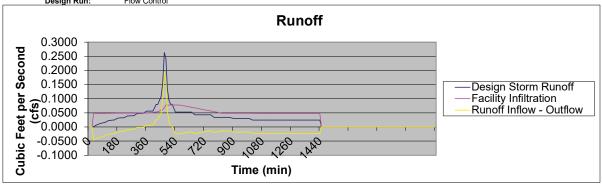


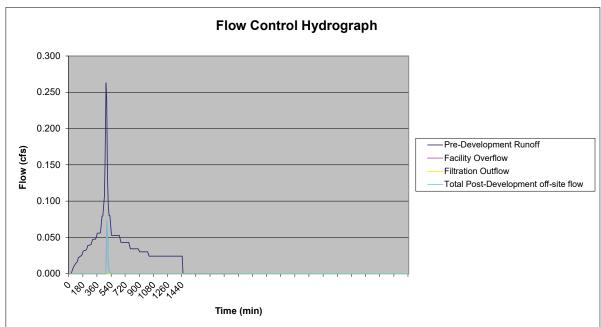


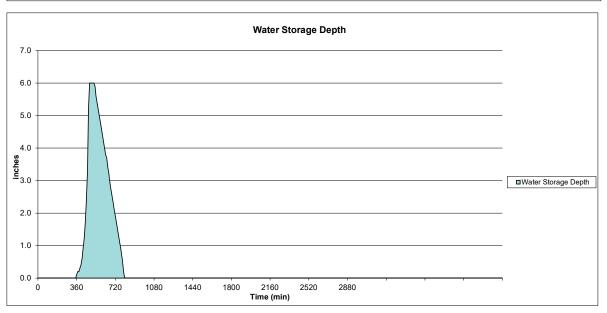


Project Name: Three Mile Prairie Permit Number:

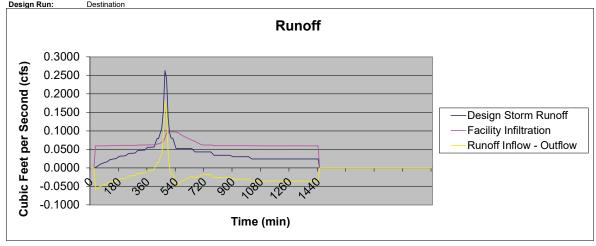
NA 1C Catchment ID: Design Run: Flow Control

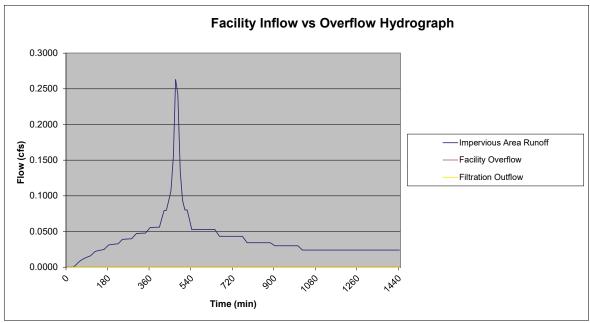


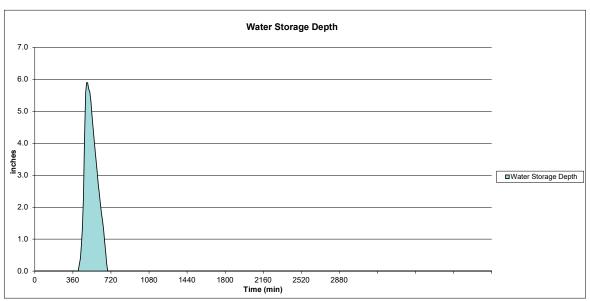




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1C
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	NA		
	Florence, OR			Catchment ID:	1D		
Designer:	Clint Beecroft				_		
Company:	EGR & Associates						
Instructions:							
1. Complete this form fo	r each drainage catch	ment in the project site th	hat is to be size	d per the Presum	ptive Approach.	•	
· ·	Catchment ID for each	facility coordinated with					
	•	odeled per the Presumpt	tive Approach is	1 acre (43,560 S	F)		
	-	where no infiltration testing		•	•	0.5 in/hr.	
		on rate of 2.5 in/hr for to					
Design Requirements							
Choose "Yes" from the o	dropdown boxes below	next to the design stand	dards requireme	ents for this facility	<i>/</i> .		
Dallastias Dastasti	(DD) V						
Pollution Reducti							
Flow Cont							
Destinati	on (DT) Yes	*An infiltration facility must be c	chosen as the facility	type to meet destinati	on requirements		
O't- D-t- Dt Dl-							
Site Data-Post Develor	oment						
Total Square Footage Impervious Area= 18685 sqft Total Square Footage Pervious Area= 0 sqft							
Impervious Area CN= 98 Pervious Area CN= 85							
						-	
Total Square Footag	-	18685 sft	Time of Cond	centration Post D	evelopment=	5 m	ıin
Wei	ighted Average CN=	98					
Site Data-Pre Developr	ment (Data in thi	is section is only used	if Flow Control	l is required)			
Pro	e-Development CN=	98	Time of Con	ncentration Pre-D	Development=	5 m	nin
Soil Data	-						
	oil Infiltration Rate=	10 in/hr (See Note	te 4)	Dostin	ation Design=	5 ir	/hr
	oil Infiltration Rate=	4 in/hr	.,		filtration Rate		7111
Design Storms Used F							
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction		Water Quality					
Flow Control	1 1	Flood Control					
Destination		Flood Control					
	0.1 ITICITES	riodd Gorilloi					
Facility Data							
		Infiltration Stormwater	Planter	-	Surface Area=	1809.5 s	•
	Surface Width=	7.7 ft		-	ce Perimeter=	485.4 ft	
	Surface Length=	235 ft		-	Bottom Area=	1090 s	•
	acility Side Slopes=	3 to 1		Facility Botto	m Perimeter=	473 ft	
	Ponding Depth	Gin		Б.	asin Volumo-	727 2 0	f

1/27/2021-11:49 AM

Ratio of Facility Area to Impervious Area=

0.097

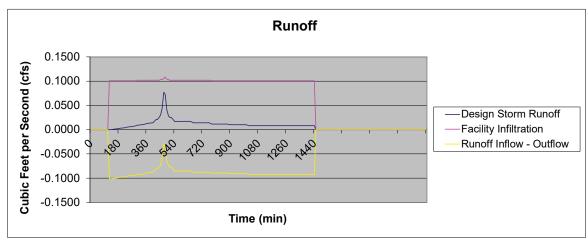
Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.0	77 cfs Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater					
	74 cf Total Overflow Volume= 0 cf				
	0.0 in				
Drawdown Time=	hours				
Yes Facility Sizing Meets P	ollution Reduction Standards?				
YES Meets Requiremen	t of No Facility Flooding?				
YES Meets Requirement	t for Maximum of 18 Hour Drawdown Time?				
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.5	72 cfs Peak Facility Overflow Rate= 0.168 cfs				
Total Runoff Volume to Stormwater	1				
Facility = 74	94 cf Total Overflow Volume= 207 cf				
	Peak Off-Site Flow Rate				
	6.0 in Filtration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours				
Bro Dovelonment Bunoff D	ata				
Pre-Development Runoff Data Peak Flow Rate = 0.572 lcfs					
Total Runoff Volume = 7510 cf					
Yes Facility Sizing Meets F	ow Control Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
	72 cfs Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater	Od of Total Overflow Volumes				
	94 cf Total Overflow Volume= 0 cf				
	0.2 hours				
Diawdowii Tillie- 0.2 libuis					
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?					

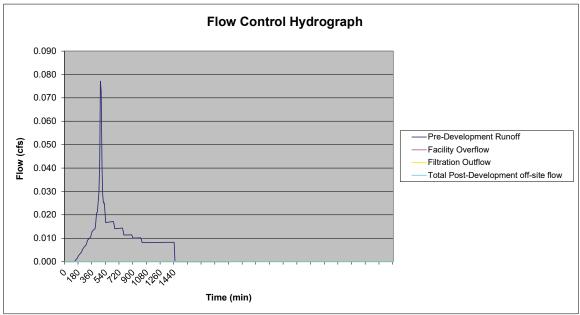
1/27/2021-11:49 AM 2

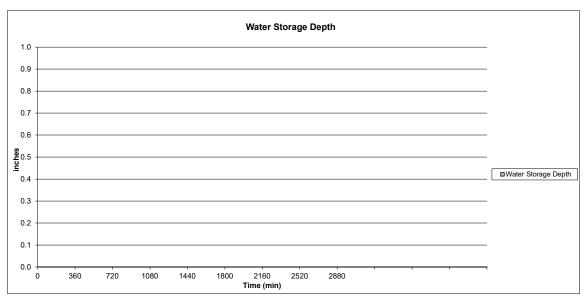
Project Name: Permit Number: Catchment ID:

Three Mile Prairie NA 1D

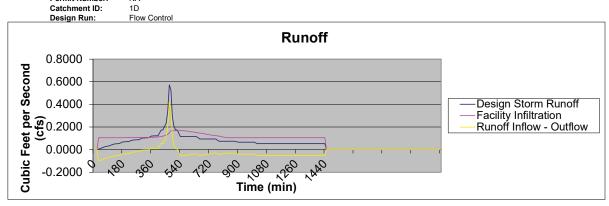
Design Run: Pollution Reduction

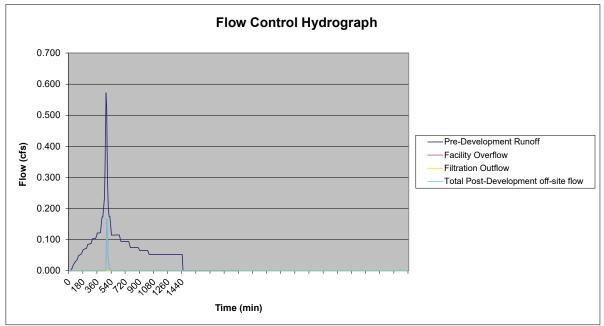


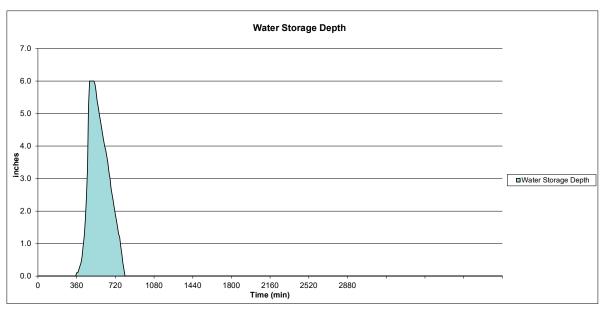




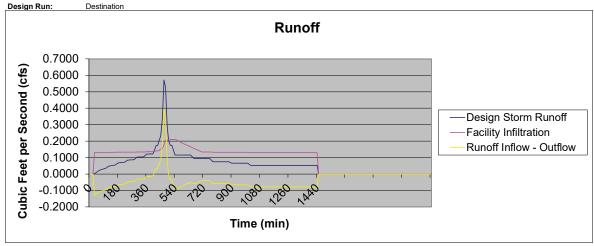
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1D

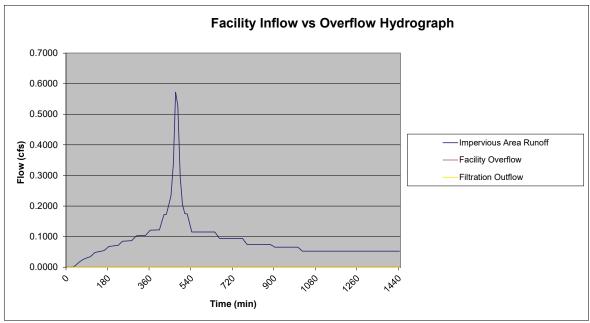


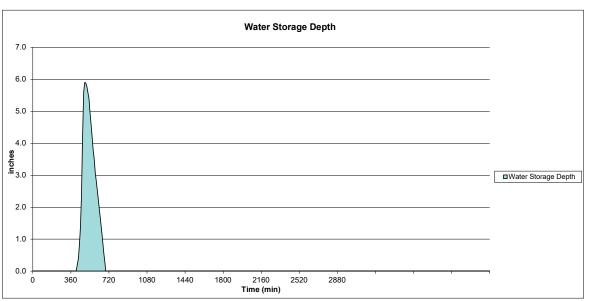




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1D
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	only of Lagenc				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie		Date: 12/30/2020		
Project Address:	18-12-15-00-00200		Permit Number: NA		
•	Florence, OR		Catchment ID: 1E		
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Provide a distinctive C calculations with the farmations. The maximum drainages. For infiltration facilities.	Catchment ID for each acility. ge catchment to be m in Class A or B soils maximum soil infiltrat	facility coordinated with the site be odeled per the Presumptive Appro	en perfromed use an infiltration rate of 0.5 in	n/hr.	
Design Requirements.					
Pollution Reduction Flow Conti Destinati	on (PR) Yes rol (FC) Yes	v next to the design standards required. *An infiltration facility must be chosen as the	e facility type to meet destination requirements		
Site Data-Post Develop	ment				
Im Total Square Footage	Total Square Footage Impervious Area				
Site Data-Pre Development (Data in this section is only used if Flow Control is required)					
Pre	e-Development CN=	98 Time o	of Concentration Pre-Development=	5 min	
Soil Data					
	oil Infiltration Rate= oil Infiltration Rate=	10 in/hr (See Note 4) 4 in/hr	Destination Design= Soil Infiltration Rate	5 in/hr	
Design Storms Used Fo	or Calculations				
Requirement	Rainfall Depth	Design Storm			
Pollution Reduction	0.8 inches	Water Quality			
Flow Control	5.1 inches	Flood Control			
Destination	5.1 inches	Flood Control			
Facility Data					
Data	Facility T.	Inditantian Chammer to Die	Facility Out of Asset	070.0	
		Infiltration Stormwater Planter	Facility Surface Area=	970.2 sqft	
	Surface Width=	7.7 ft	Facility Surface Perimeter=	267.4 ft	
_	Surface Length=	126 ft	Facility Bottom Area=	578 sqft	
	acility Side Slopes=	3 to 1	Facility Bottom Perimeter=	255 ft	
	Ponding Depth mwater Facility=	6 in	Basin Volume=	389 3 cf	

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Ratio of Facility Area to Impervious Area=

0.098

18 in

Depth of Growing Medium (Soil)=

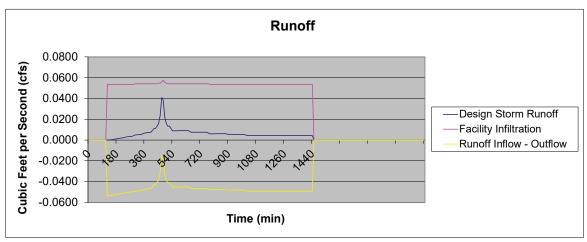
Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.041 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	517 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility= Drawdown Time=	0.0 in 0.2 hours					
Diawdown Time-	0.2 Hours					
Yes Facility Sizing Me	ets Pollution Reduction Sta	ndards?				
YES Meets Requi	irement of No Facility Flooding?					
YES Meets Requi	irement for Maximum of 18 Hour	Drawdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.304 cfs	Peak Facility Overflow Rate= 0.083 cfs				
Total Runoff Volume to Stormwater						
Facility =	3982 cf	Total Overflow Volume= 104 cf				
		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	6.0 in 0.2 hours	Filtration Facility Underdrain= N\A cfs				
Diawdown Time-L	0.2 Hours					
Pre-Development Runoff Data						
Peak Flow Rate = 0.304 cfs						
Total Runoff Volume = 3990 cf						
Yes Facility Sizing Me	Yes Facility Sizing Meets Flow Control Standards?					
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility = Total Runoff Volume to Stormwater	0.304 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Facility =	3982 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	5.9 in					
Drawdown Time= 0.2 hours						
Yes Facility Sizing Meets Destination Standards?						
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?						

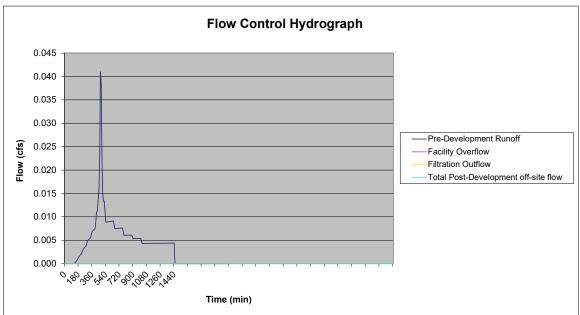
1/27/2021-12:10 PM 2

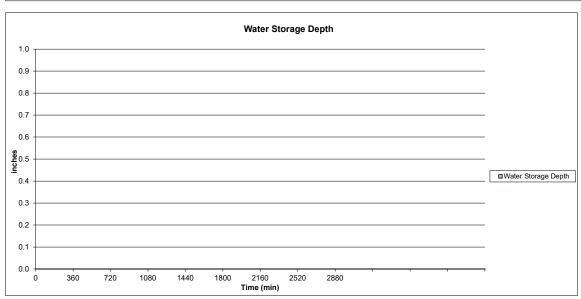
Project Name: Three Mile Prairie Permit Number: Catchment ID:

NA 1E

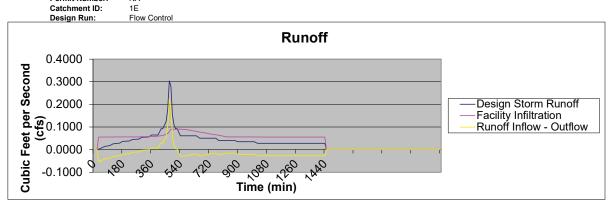
Design Run: Pollution Reduction

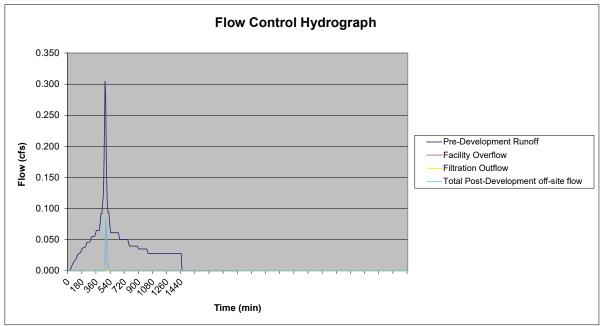


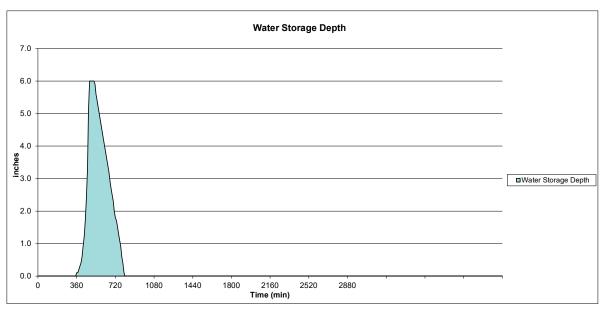




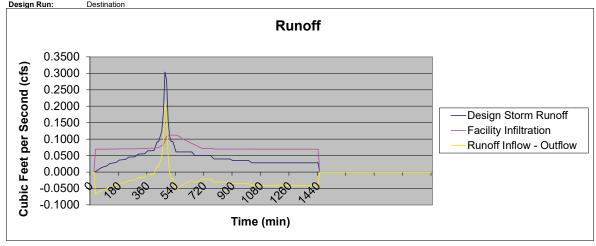
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1E

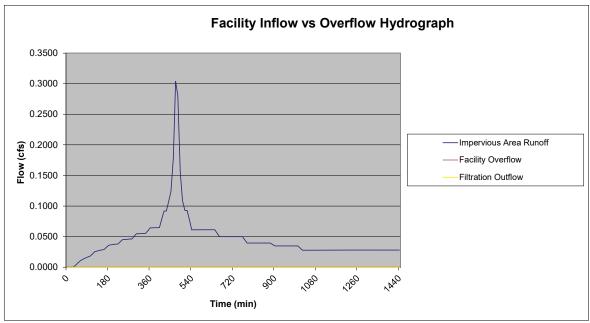


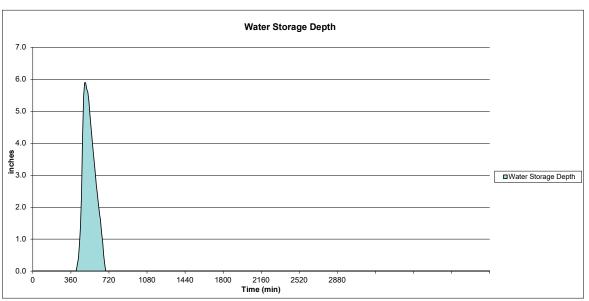




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1E
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200		P	ermit Number:	NA		
•	Florence, OR		C	Catchment ID:	1F		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
Instructions:							
	r each drainage catch	nment in the project site the	at is to he sized	ner the Presumi	ntive Annroach		
•	Catchment ID for eacl	n facility coordinated with t					
	•	odeled per the Presumptiv	ve Approach is 1	1 acre (43 560 SI	F)		
	•	where no infiltration testing		·		0.5 in/hr	
		tion rate of 2.5 in/hr for top	-		illiation rate or	0.0 11/111.	
		don rate of 2.5 liftli for top	D3011/growing me	dium.			
Design Requirements:							
Choose "Yes" from the c	Iropdown boxes belo	w next to the design stand	lards requiremer	nts for this facility	<i>!</i> .		
Pollution Reducti	on (PR) Yes						
Flow Cont	rol (FC) Yes						
Destinati	on (DT) Yes	*An infiltration facility must be ch	hosen as the facility t	ype to meet destination	on requirements		
	,	,	,	, , , , , , , , , , , , , , , , , , ,	·		
Site Data-Post Develop	ment						
Total Square Footag	e Impervious Area=	5219 sqft	Total Sq	uare Footage Pe	ervious Area=	0	sqft
-	pervious Area CN=	98		_	ous Area CN=	85	- 4
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00					
Total Square Footage	e of Drainage Area=	5219 sft	Time of Conce	entration Post D	evelopment=	5	min
	ghted Average CN=				L		
Site Data-Pre Developr	nent (Data in tr	is section is only used i	if Flow Control	is required)			
	e-Development CN=	98	Time of Cond	centration Pre-D	evelopment=	5	min
Soil Data							
Tested S	oil Infiltration Rate=	10 in/hr (See Note	e 4)	Destina	ation Design=	5	in/hr
Design S	oil Infiltration Rate=	4 in/hr		Soil In	filtration Rate		
Design Storms Used For Calculations							
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction	0.8 inches	Water Quality					
Flow Control	5.1 inches	Flood Control					
Destination	5.1 inches	Flood Control					
Facility Data							
	Facility Type-	Infiltration Stormwater	Planter	Facility 9	Surface Area=	336	eaft
	Surface Width=	4.2 ft	i idillei	Facility Surface	-	168.4	
	Surface Length=	80 ft		-	-		
-	_			-	Bottom Area=	336	
	acility Side Slopes= Ponding Depth	U to 1		racility Botto	m Perimeter=	168	IL
	mwater Facility=	10 in		B:	asin Volume=	280.0	cf

1/27/2021-12:13 PM

Ratio of Facility Area to Impervious Area=

0.064

18 in

Depth of Growing Medium (Soil)=

Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.022 cfs F	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	272 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Meets	Yes Facility Sizing Meets Pollution Reduction Standards?					
YES Meets Requiren	ent of No Facility Flooding?					
YES Meets Requiren	ent for Maximum of 18 Hour Draw	vdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.160 cfs	Peak Facility Overflow Rate= 0.026 cfs				
Total Runoff Volume to Stormwater		,				
Facility =	2093 cf	Total Overflow Volume= 56 cf				
		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=		Itration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours					
Pre-Development Runof						
Peak Flow Rate = Total Runoff Volume =	0.160 cfs 2098 cf					
Total Runon Volume =	2096 CI					
Yes Facility Sizing Meets	Flow Control Standards?					
YES Meets Requiren						
Destination-Calculation Results						
	0.160 cfs F	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater	0000 (7.10 7. 11				
Facility =	2093 cf 9.2 in	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility= Drawdown Time=	9.2 in 0.2 hours					
Diawdowii Tillie-	0.2 Hours					
Yes Facility Sizing Meets Destination Standards?						
	ent of No Facility Flooding? ent for Maximum of 30 hour Draw	down Time?				

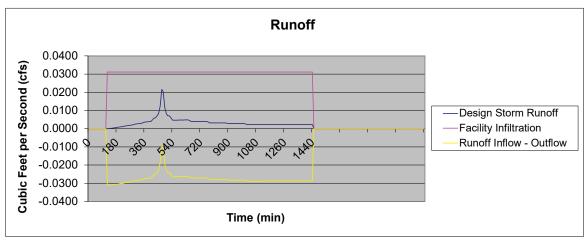
1/27/2021-12:13 PM 2

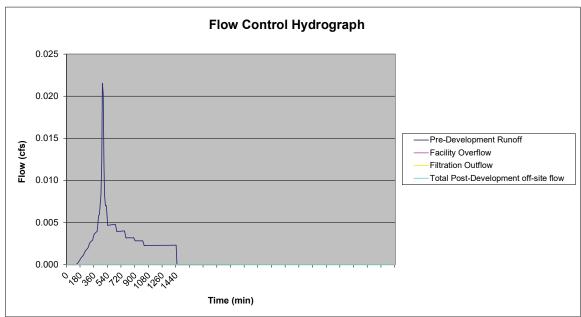
Project Name: Permit Number: Catchment ID: Design Run:

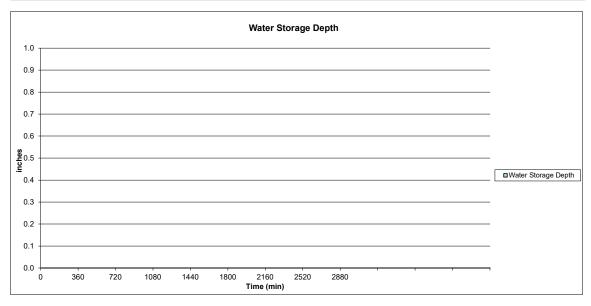
Three Mile Prairie

NA 1F

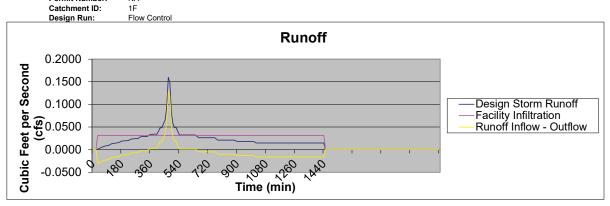
Pollution Reduction

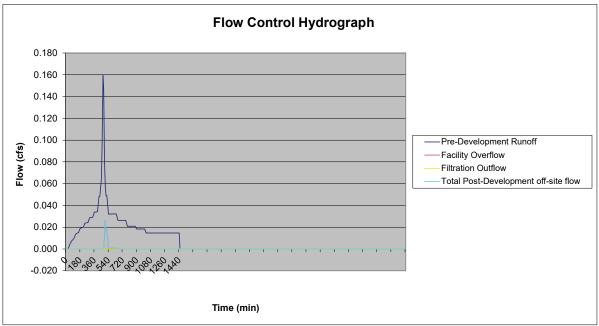


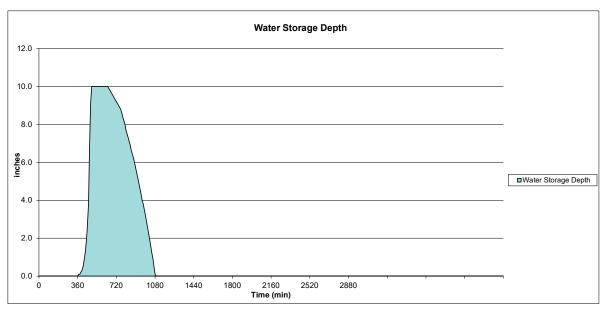




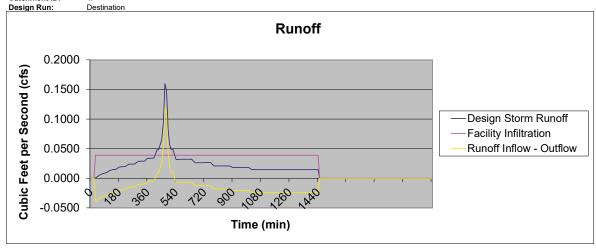
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1F

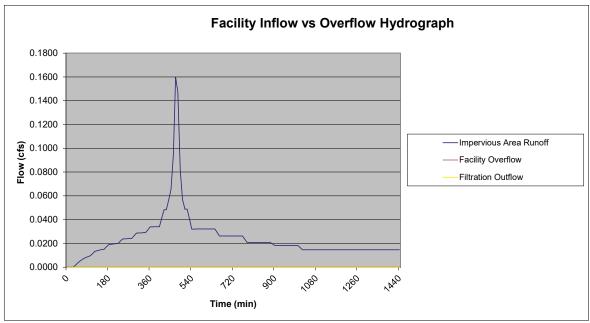


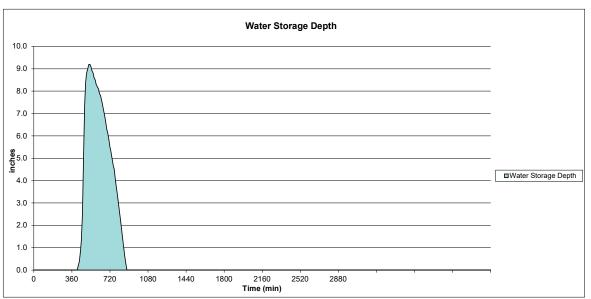




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1F









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200		F	Permit Number:	<u>NA</u>		
	Florence, OR		(Catchment ID:	<u>1G</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
Instructions:							
1. Complete this form for	r each drainage catchn	nent in the project site t	that is to be sized	per the Presum	ptive Approach.		
Provide a distinctive C calculations with the factors		facility coordinated with	n the site basin m	ap to correlate th	ie appropriate		
3. The maximum drainaç	ge catchment to be mo	deled per the Presump	tive Approach is	1 acre (43,560 S	F)		
4.For infiltration facilities	in Class A or B soils w	vhere no infiltration test	ting has been per	fromed use an in	filtration rate of (0.5 in/hr.	
For all facilities use a	maximum soil infiltration	on rate of 2.5 in/hr for to	opsoil/growing me	edium.			
Design Requirements:							
Choose "Yes" from the d	Iropdown boxes below	next to the design stan	ndards requireme	nts for this facility	y.		
Dellution Deducti	on (DD) Voc						
Pollution Reduction							
Flow Cont	` '						
Destinati	on (DT) Yes	An infiltration facility must be	chosen as the facility	type to meet destinati	ion requirements		
Site Data-Post Develop	ment						
Total Square Footag	_	2534 sqft	Total Sq	uare Footage P	-	0 so	qft
Im	npervious Area CN=	98		Pervi	ous Area CN=	85	
Total Square Footage	e of Drainage Area=	2534 sft	Time of Conc	entration Post D	Development=	5 m	ıin
Wei	ghted Average CN=	98			_		
Site Data-Pre Developn	nent (Data in this	s section is only used	l if Flow Control	is required)			
Pre	e-Development CN=	98	Time of Con	centration Pre-D	Development=	5 m	iin
Soil Data							
	oil Infiltration Rate= oil Infiltration Rate=	10 in/hr (See No 4 in/hr	ote 4)		ation Design= filtration Rate	5 in.	/hr
Design Storms Used F	or Calculations						
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction	0.8 inches	Nater Quality					
Flow Control	5.1 inches F	Flood Control					
Destination	5.1 inches	Flood Control					
Facility Data							
	Facility Type=	nfiltration Stormwater	r Planter	Facility	Surface Area=	254.1 sc	qft
	Surface Width=	7.7 ft		-	ce Perimeter=	81.4 ft	
	Surface Length=	33 ft		-	Bottom Area=	141 so	qft
	acility Side Slopes=	3 to 1		Facility Botto	om Perimeter=	69 ft	
	Ponding Depth						
	mwater Facility=	6 in			asin Volume=	101.0 cf	i
Depth of Grow	ving Medium (Soil)=	18 in	Ratio of Faci	lity Area to Imp	ervious Area=	0.100	

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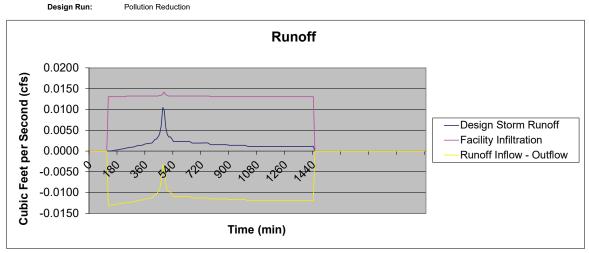
Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	132 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Me	Yes Facility Sizing Meets Pollution Reduction Standards?					
YES Meets Requ	uirement of No Facil	ity Flooding?				
YES Meets Requ	uirement for Maximu	um of 18 Hour Drawdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs				
Total Runoff Volume to Stormwater						
Facility =	1016 cf	Total Overflow Volume= 25 cf				
1		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours					
Pre-Development R						
Peak Flow Rate =	0.078 cfs					
Total Runoff Volume =	1018 cf					
Yes Facility Sizing Me	eets Flow Contro	ol Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Facility =	1016 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	5.8 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Meets Destination Standards?						
	uirement of No Facil uirement for Maximu	lity Flooding? um of 30 hour Drawdown Time?				

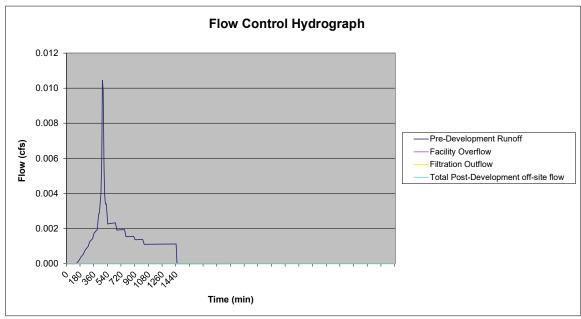
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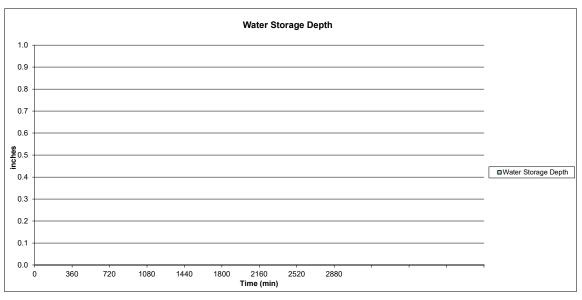
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 1G

Pollution Reduction

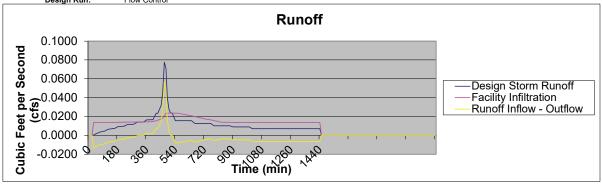


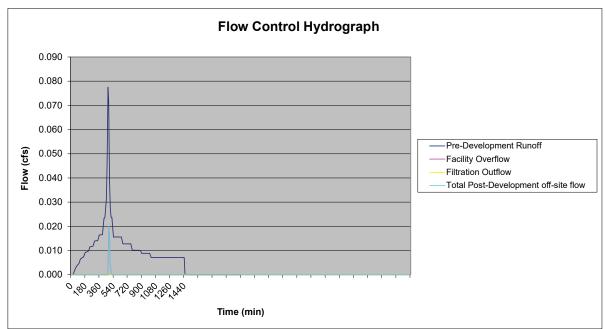


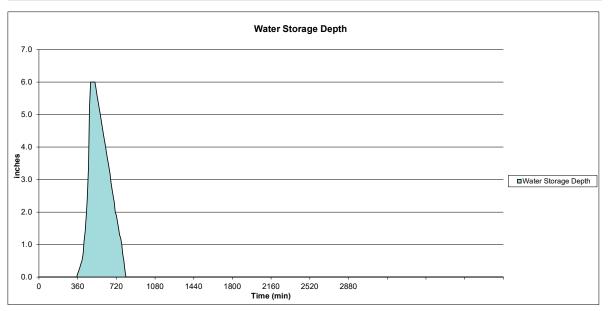


Project Name: Three Mile Prairie Permit Number: NA

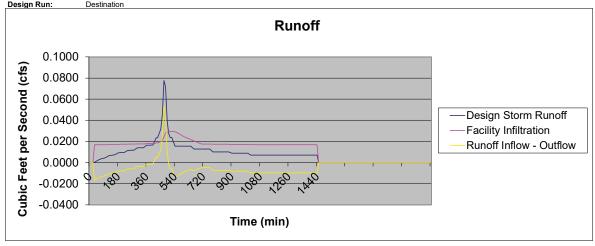
Catchment ID: 1G
Design Run: Flow Control

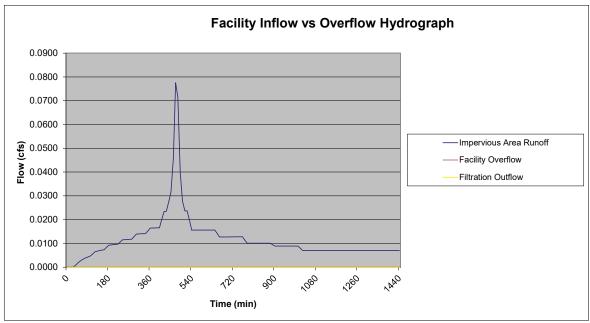


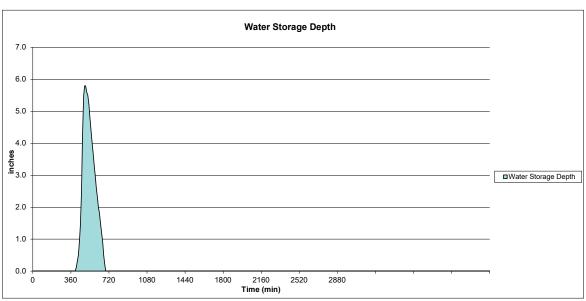




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1G
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene					
	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie		Date:	12/30/2020		
Project Address:	18-12-15-00-00200		Permit Number:	<u>NA</u>		
	Florence, OR		Catchment ID:	<u>1H</u>		
Designer:	Clint Beecroft					
Company:	EGR & Associates					
 Provide a distinctive C calculations with the fa The maximum drainag For infiltration facilities For all facilities use a 	atchment ID for each acility. e catchment to be m in Class A or B soils	n facility coordinated with	that is to be sized per the Presum in the site basin map to correlate the otive Approach is 1 acre (43,560 S ting has been perfromed use an in opsoil/growing medium.	he appropriate	ır.	
Design Requirements:						
Choose "Yes" from the d	ropdown boxes belov	w next to the design star	ndards requirements for this facility	y.		
Pollution Reduction (PR) Yes Flow Control (FC) Yes Destination (DT) Yes *An infiltration facility must be chosen as the facility type to meet destination requirements						
Site Data-Post Develop	ment					
-	Total Square Footage Impervious Area					
Total Square Footage Wei	e of Drainage Area= ghted Average CN=		Time of Concentration Post I	Development=	5 min	
Site Data-Pre Developm	nent (Data in th	is section is only used	d if Flow Control is required)			
	-Development CN=	98	Time of Concentration Pre-l	Development=	<mark>5</mark> min	
Soil Data						
	oil Infiltration Rate= oil Infiltration Rate=	10 in/hr (See No 4 in/hr		nation Design= nfiltration Rate	5 in/hr	
Design Storms Used Fo	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction	0.8 inches	Water Quality				
Flow Control	5.1 inches	Flood Control				
Destination	5.1 inches	Flood Control				
Facility Data						
•	Facility Type=	Infiltration Stormwate	r Planter Facility	Surface Area=	254.1 sqft	
	Surface Width=	7.7 ft		ice Perimeter=	81.4 ft	
	Surface Length=	33 ft	_	Bottom Area=	141 sqft	
Fa	cility Side Slopes=	3 to 1		om Perimeter=	69 ft	
	Ponding Depth		, 2011			
	nwater Facility=	6 in	В	Basin Volume=	101.0 cf	
Depth of Grow	ing Medium (Soil)=	18 in	Ratio of Facility Area to Imp	ervious Area=	0.100	

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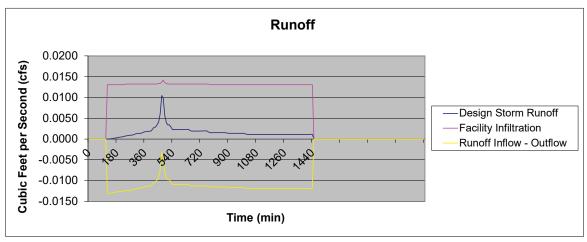
Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	132 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Me	Yes Facility Sizing Meets Pollution Reduction Standards?					
YES Meets Requ	uirement of No Facil	ity Flooding?				
YES Meets Requ	uirement for Maximu	um of 18 Hour Drawdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs				
Total Runoff Volume to Stormwater						
Facility =	1016 cf	Total Overflow Volume= 25 cf				
1		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours					
Pre-Development R						
Peak Flow Rate =	0.078 cfs					
Total Runoff Volume =	1018 cf					
Yes Facility Sizing Me	eets Flow Contro	ol Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Facility =	1016 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	5.8 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Meets Destination Standards?						
	uirement of No Facil uirement for Maximu	lity Flooding? um of 30 hour Drawdown Time?				

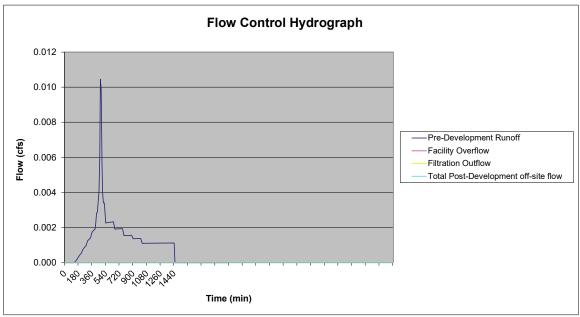
1/27/2021-12:16 PM 2

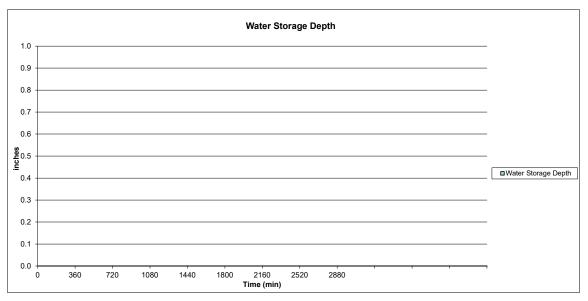
Project Name: Permit Number: Catchment ID: Three Mile Prairie NA 1H

Design Run:

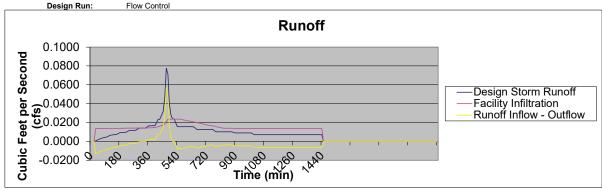
Pollution Reduction

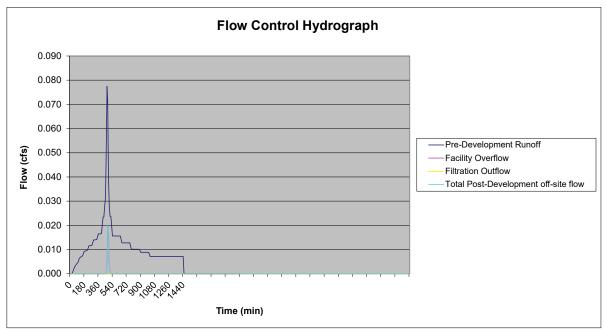


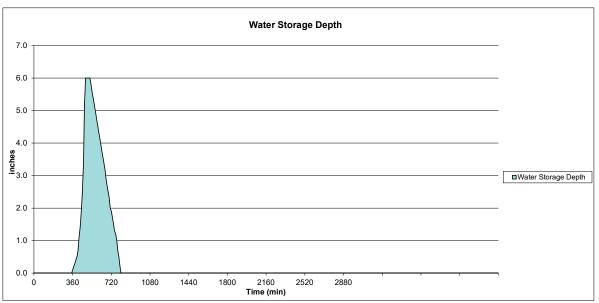




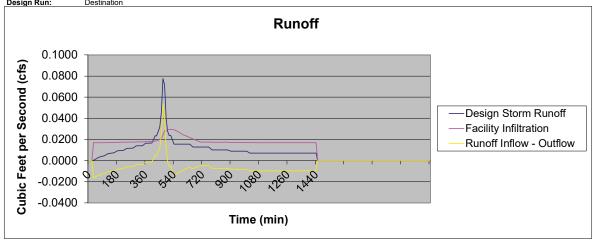
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1H
Design Run: Flow Control

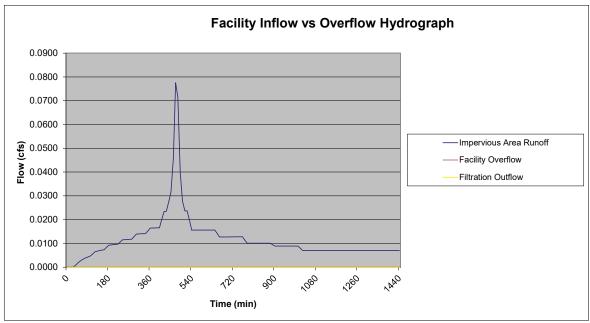


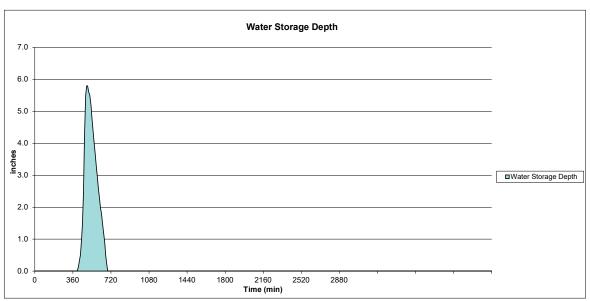




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1H
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution

EUGENE	City of Eugene					
	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie		Date:	12/30/2020		
Project Address:	18-12-15-00-00200		Permit Number:	NA		
	Florence, OR		Catchment ID:	<u>11</u>		
Designer:	Clint Beecroft			_		
Company:	EGR & Associates					
Instructions:						
	each drainage catchment in	n the project site that is to be s	sized per the Presum	ntive Approach		
•	atchment ID for each facility	coordinated with the site bas	•			
		per the Presumptive Approac				
		no infiltration testing has been		filtration rate of 0.5	in/hr.	
For all facilities use a	maximum soil infiltration rate	e of 2.5 in/hr for topsoil/growing	g medium.			
Design Requirements:						
Choose "Yes" from the d	ropdown boxes below next to	o the design standards require	ements for this facility	y.		
Dollution Poduction	on (DD) Voc					
Pollution Reduction						
Flow Conti	` '					
Destination	on (DT) Yes *An infiltr	ration facility must be chosen as the fa	cility type to meet destinat	ion requirements		
Site Data-Post Develop	ment					
Total Square Footage	e Impervious Area=	8025 sqft Tota	I Square Footage P	ervious Area=	0 sqft	
-	pervious Area CN=	98		ous Area CN=	85	
••••	pervious Area on-	30	1 6141	ous Area on-	00	
Total Square Footage	of Drainage Area=	8025 sft Time of C	oncentration Post I	Development=	5 min	
	ghted Average CN=	98				
Site Data-Pre Developm		tion is only used if Flow Con	itrol is required)			
·	e-Development CN=		Concentration Pre-I	Development=	5 min	
Soil Data						
Tested Sc	oil Infiltration Rate=	10 in/hr (See Note 4)	Destin	ation Design=	5 in/hr	
	oil Infiltration Rate=	4 in/hr		filtration Rate	0 11//11	
Design Storms Used Fo	or Calculations					
Requirement		n Storm				
Pollution Reduction		Quality				
Flow Control	1 1	Control				
Destination		Control				
Facility Data	,	<u></u>				
radiity bata	Facility Tymes Indittus	otion Stormwater Blants	Tagilita (Surface Area-	630 sqft	
	Surface Width=	ation Stormwater Planter 4.2 ft	_	Surface Area= ce Perimeter=	308.4 ft	
	Surface Length=	150 ft	-	Bottom Area=	630 sqft	
E-	acility Side Slopes=	0 to 1	•	om Perimeter=	308 ft	
	Ponding Depth	- U I	Facility Botto	, reinneter-	300 11	
	mwater Facility=	6 in	В	asin Volume=	315.0 cf	
	ring Medium (Soil)=		Facility Area to Imp		0.079	

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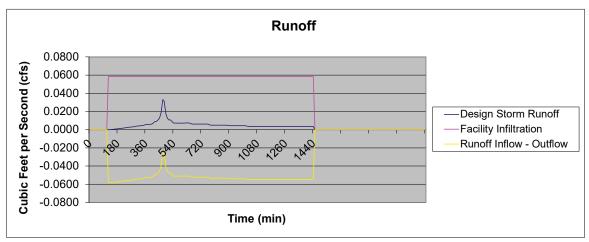
Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.033 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	418 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in	·				
Drawdown Time=	0.2 hours					
Yes Facility Sizing M	Yes Facility Sizing Meets Pollution Reduction Standards?					
	uirement of No Facilit					
YES Meets Requ	uirement for Maximui	m of 18 Hour Drawdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.246 cfs	Peak Facility Overflow Rate= 0.068 cfs				
Total Runoff Volume to Stormwater		,				
Facility =	3219 cf	Total Overflow Volume= 96 cf				
		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours					
Pre-Development R						
Peak Flow Rate =	0.246 cfs					
Total Runoff Volume =	3225 cf					
Yes Facility Sizing M	eets Flow Control	Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.246 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Facility =	3219 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	5.8 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Meets Destination Standards?						
	uirement of No Facilit uirement for Maximui	ty Flooding? m of 30 hour Drawdown Time?				

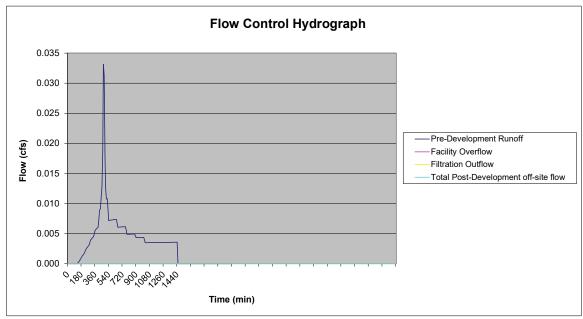
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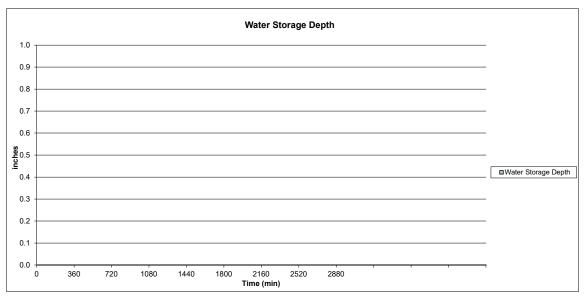
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 1I

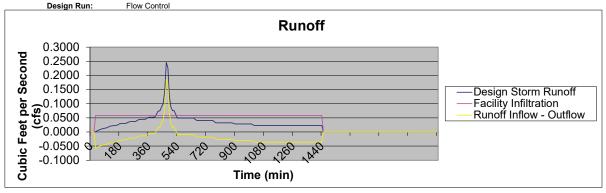
Design Run: Pollution Reduction

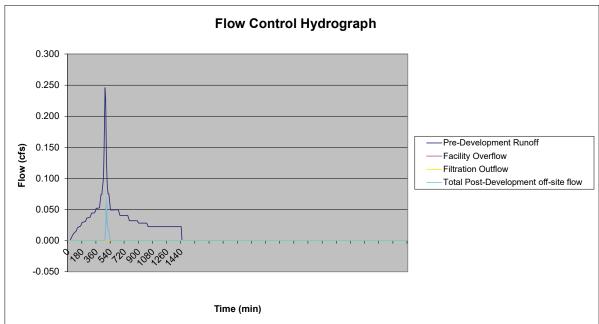


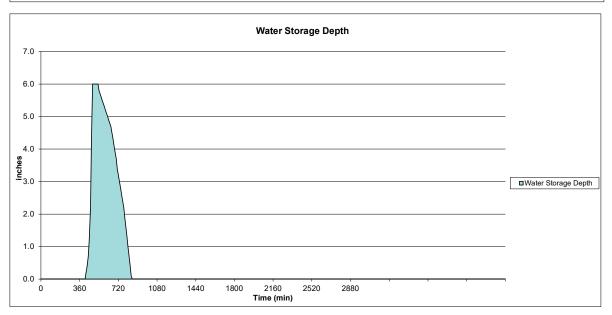




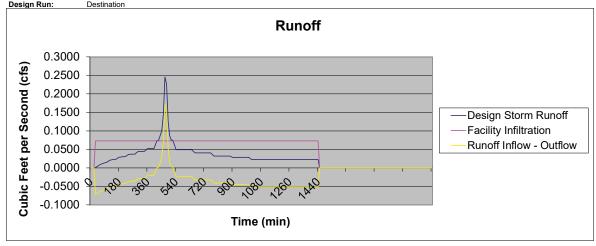
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 11
Design Run: Flow Control

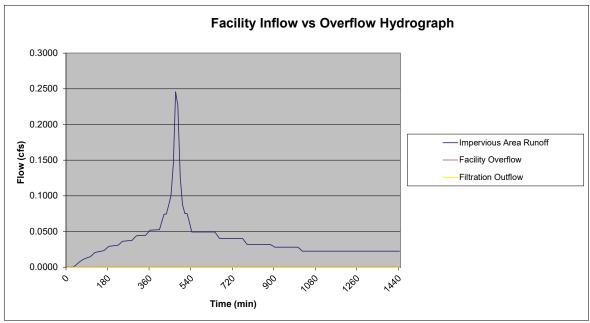


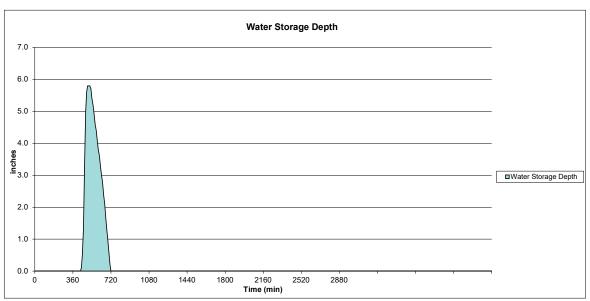




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 11
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	,---					
	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie			Date: <u>12/30/2</u>	<u>:020</u>	
Project Address:	18-12-15-00-00200	_	I	Permit Number: <u>NA</u>		
	Florence, OR		•	Catchment ID: 1J		
Designer:	Clint Beecroft					
Company:	EGR & Associates	<u> </u>				
 Provide a distinctive C calculations with the fa The maximum drainag For infiltration facilities For all facilities use a result of the control of the control of the calculations. 	atchment ID for each acility. e catchment to be r in Class A or B soils	hment in the project site that th facility coordinated with the modeled per the Presumptive s where no infiltration testing ation rate of 2.5 in/hr for tops	e site basin m e Approach is ı has been per	ap to correlate the appro 1 acre (43,560 SF) fromed use an infiltration	priate	
Design Requirements:						
Pollution Reduction (PR) Flow Control (FC) Destination (DT) Yes *An infiltration facility must be chosen as the facility type to meet destination requirements						
Site Data-Post Develop	ment					
Im Total Square Footage	Total Square Footage Impervious Area = 2552 sqft Total Square Footage Pervious Area = 0 sqft Pervious Area CN = 85 Total Square Footage of Drainage Area = 2552 sft Weighted Average CN = 98					
Site Data-Pre Developm	nent (Data in t	his section is only used if	Flow Control	is required)		
	-Development CN=			centration Pre-Develop	ment=	<mark>5</mark> min
Soil Data						
	oil Infiltration Rate- oil Infiltration Rate-		1)	Destination De Soil Infiltratio		5 in/hr
Design Storms Used Fo	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction	0.8 inches	Water Quality				
Flow Control	5.1 inches	Flood Control				
Destination	5.1 inches	Flood Control				
Facility Data						
Fa Max. I	Facility Types Surface Widths Surface Lengths acility Side Slopess Ponding Depth	= 33 ft	lanter	Facility Surface Facility Surface Perin Facility Bottom Facility Bottom Perin	meter= 81. Area= 14 meter= 6	.1 sqft .4 ft 11 sqft 59 ft
	TOWATOR HACILITY	• hin		Hacin Va	mo=1 7/11	THE CT

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Ratio of Facility Area to Impervious Area=

0.100

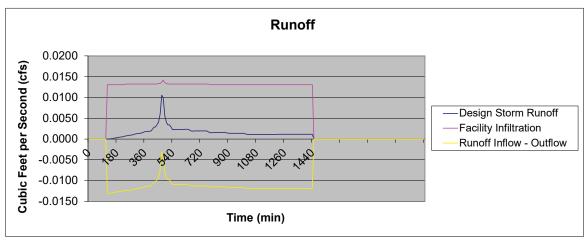
Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.011 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	133 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Me	Yes Facility Sizing Meets Pollution Reduction Standards?					
YES Meets Requ	uirement of No Facil	ity Flooding?				
YES Meets Requ	uirement for Maximu	ım of 18 Hour Drawdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.023 cfs				
Total Runoff Volume to Stormwater		, and the second				
Facility =	1024 cf	Total Overflow Volume= 27 cf				
1		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours					
Pre-Development R						
Peak Flow Rate =	0.078 cfs					
Total Runoff Volume =	1026 cf					
Yes Facility Sizing Me	eets Flow Contro	ol Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Facility =	1024 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	5.9 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Meets Destination Standards?						
	uirement of No Facil uirement for Maximu	ity Flooding? ım of 30 hour Drawdown Time?				

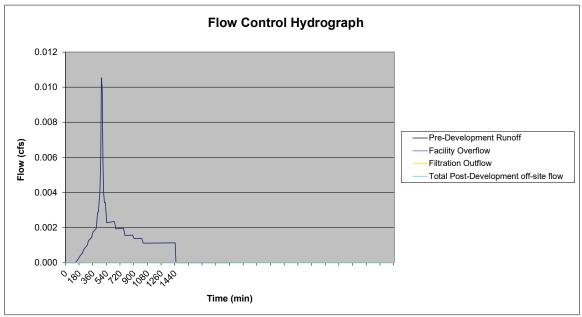
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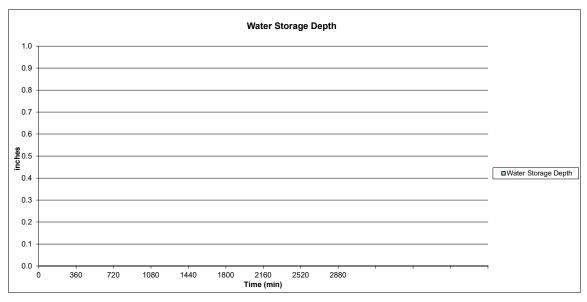
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 1J

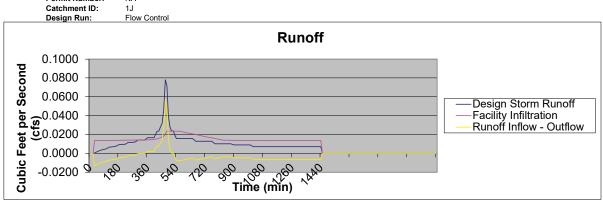
Design Run: Pollution Reduction

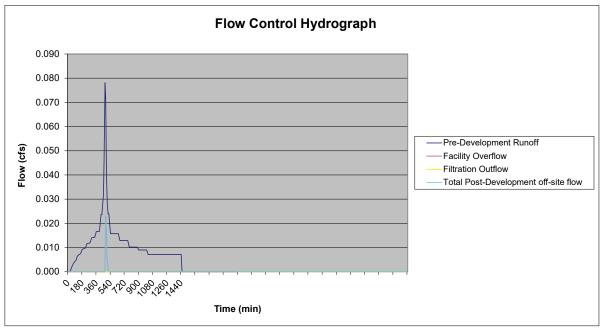


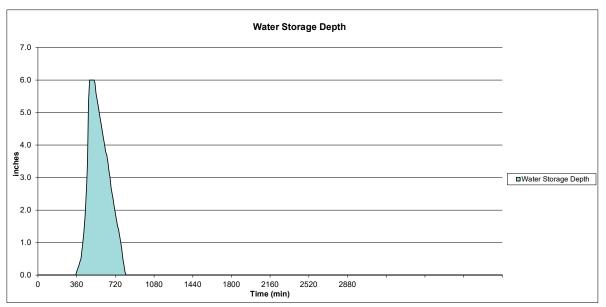




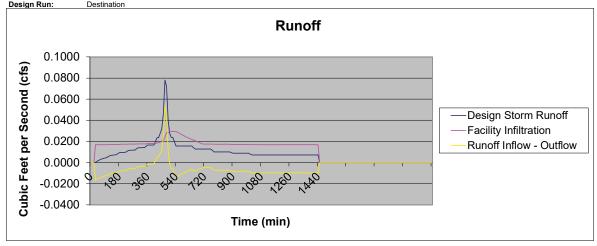
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1J

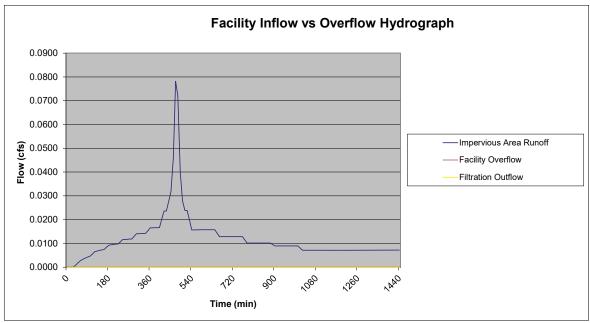


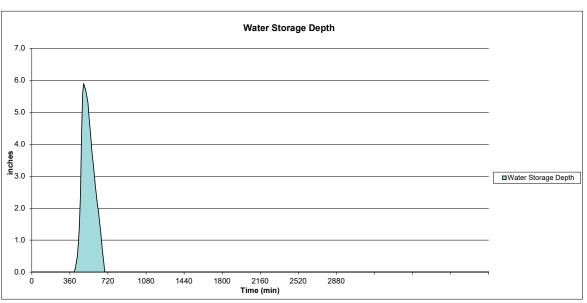




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1J
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Oity of Lageric				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie		Date:	12/30/2020	
Project Address:	18-12-15-00-00200		Permit Number:	NA	
.,	Florence, OR				
Designer:	Clint Beecroft				
Company:	EGR & Associates				
2. Provide a distinctive C calculations with the fa 3. The maximum drainag 4.For infiltration facilities For all facilities use a li Design Requirements: Choose "Yes" from the di Pollution Reduction	catchment ID for each acility. ge catchment to be m in Class A or B soils maximum soil infiltrat ropdown boxes below	ment in the project site that is a facility coordinated with the sounded per the Presumptive A where no infiltration testing had ion rate of 2.5 in/hr for topsoil/	ite basin map to correlate the pproach is 1 acre (43,560 S as been perfromed use an in growing medium.	ne appropriate SF) ifiltration rate of 0.5 in/h	ır.
Flow Control Destination Site Data-Post Develop	on (DT) Yes	*An infiltration facility must be chosen	as the facility type to meet destinat	ion requirements	
Site Data-Post Develop	ment				
Total Square Footage Impervious Area = 2686 Sqft Total Square Footage Pervious Area = 0 Sqft Pervious Area CN = 85 Total Square Footage of Drainage Area = 2686 Sft Time of Concentration Post Development = 5 min Weighted Average CN = 98					
Site Data-Pre Developm	nent (Data in th	is section is only used if Flo	ow Control is required)		
	e-Development CN=		me of Concentration Pre-I	Development=	5 min
Soil Data					
	oil Infiltration Rate= oil Infiltration Rate=	10 in/hr (See Note 4) 4 in/hr		ation Design= nfiltration Rate	5 in/hr
Design Storms Used Fo	or Calculations				
Requirement	Rainfall Depth	Design Storm			
Pollution Reduction	0.8 inches	Water Quality			
Flow Control	5.1 inches	Flood Control			
Destination	5.1 inches	Flood Control			
	0.1 1101163	i loca Control			
Facility Data					
		Infiltration Stormwater Plan			254.1 sqft
	Surface Width=	7.7 ft		ce Perimeter=	81.4 ft
	Surface Length=	33 ft	Facility	Bottom Area=	107 sqft
	acility Side Slopes=	3 to 1	Facility Botto	om Perimeter=	65 ft
	Ponding Depth	8 in	R	asin Volume=	125.8 cf

1/27/2021-12:21 PM

Ratio of Facility Area to Impervious Area=

0.095

18 in

Depth of Growing Medium (Soil)=

Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.011 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	140 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in	·				
Drawdown Time=	0.2 hours					
Yes Facility Sizing Me	Yes Facility Sizing Meets Pollution Reduction Standards?					
	uirement of No Facili					
YES Meets Requ	uirement for Maximu	m of 18 Hour Drawdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.082 cfs	Peak Facility Overflow Rate= 0.030 cfs				
Total Runoff Volume to Stormwater		, and the second				
Facility =	1077 cf	Total Overflow Volume= 34 cf				
		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	8.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours					
Pre-Development R						
Peak Flow Rate =	0.082 cfs					
Total Runoff Volume =	1080 cf					
Yes Facility Sizing Me	eets Flow Contro	I Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.082 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater	10==					
Facility =	1077 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	7.9 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Meets Destination Standards?						
	uirement of No Facili uirement for Maximu	ty Flooding? m of 30 hour Drawdown Time?				

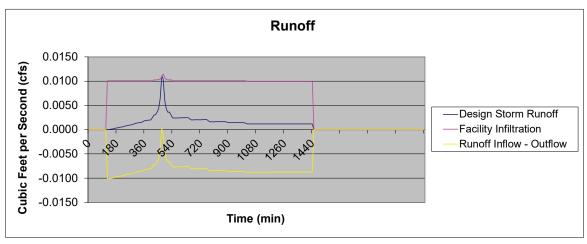
1/27/2021-12:21 PM 2

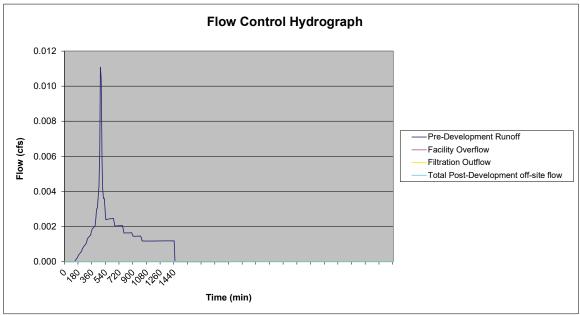
Project Name: Permit Number: Catchment ID: Design Run:

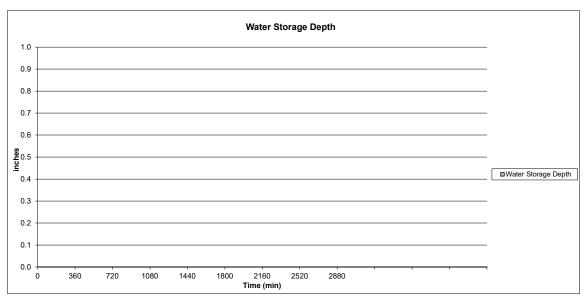
Three Mile Prairie

NA 1K

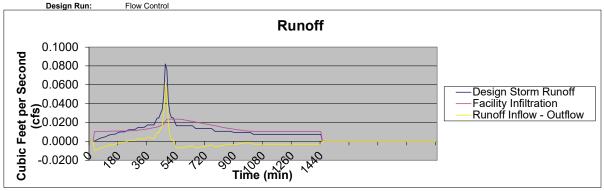
Pollution Reduction

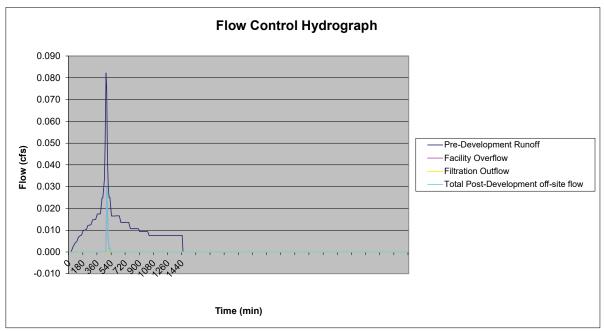


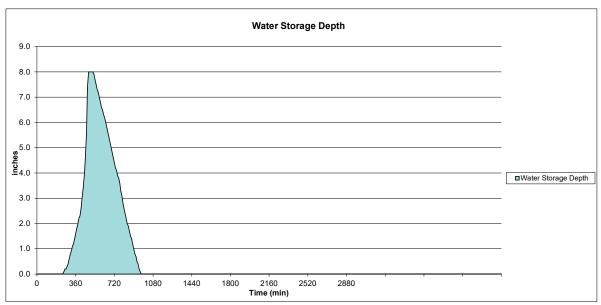




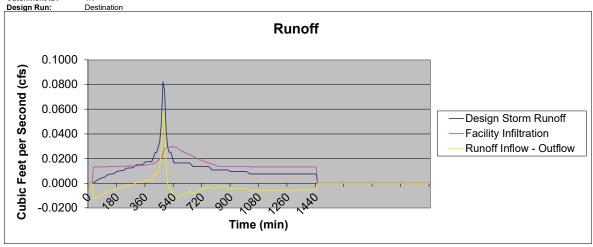
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1K
Design Run: Flow Control

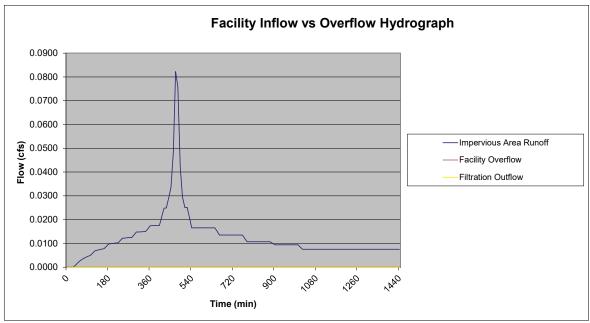


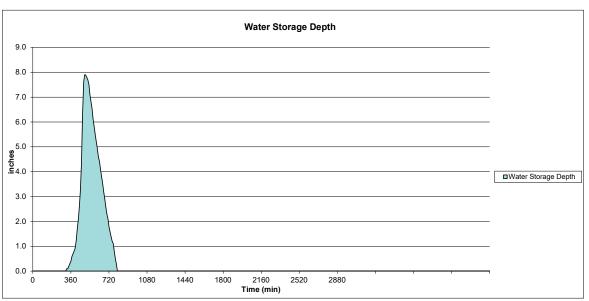




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1K
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie		Da	te: <u>12/30/2020</u>	
Project Address:	18-12-15-00-00200		Permit Numb	er: <u>NA</u>	
	Florence, OR		Catchment ID	: <u>1L</u>	
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Instructions:					
	oach drainaga catch	amont in the project site th	at is to be sized per the Pres	ımptiya Approach	
•			he site basin map to correlate		•
calculations with the fa		riadility coordinated with t	ne site basiii map to correlate	the appropriate	
	•	nodeled her the Presumnti	ve Approach is 1 acre (43,560) SE)	
-			ig has been perfromed use ar		0.5 in/hr
		tion rate of 2.5 in/hr for top		i illilliation fate of	0.5 11/111.
		John rate of 2.5 m/m for top	soli/growing medium.		
Design Requirements:					
Choose "Yes" from the d	ropdown boxes belov	w next to the design stand	ards requirements for this fac	ilitv.	
		Thomas are areas	a. a		
Pollution Reduction	on (PR) Yes				
Flow Contr	rol (FC) Yes				
Destination	` ′	*Δn infiltration facility must be ch	nosen as the facility type to meet dest	ination requirements	
Dooman	on (21) 100	Air inilitiation racility must be on	loserras the racinty type to meet dest	mation requirements	
Site Data-Post Develop	ment				
Total Square Footage	a Imparvious Area=	2348 sqft	Total Square Footage	Porvious Area=	0 sqft
-	pervious Area CN=	98		rvious Area CN=	85
!!!!	ipervious Area Oit	- 00	10	TVIOUS AICU OIV	<u> </u>
Total Square Footage	of Drainage Area=	2348 sft	Time of Concentration Pos	st Development=	5 min
-	ghted Average CN=			,	
			f.Fl 0 - nt1 i		
Site Data-Pre Developn	·		f Flow Control is required)		
Pre	e-Development CN=	98	Time of Concentration Pr	e-Development=	5 min
Soil Data					
Tested So	oil Infiltration Rate=	10 in/hr (See Note	(4) Des	tination Design=	5 in/hr
Design So	oil Infiltration Rate=	4 in/hr	Soi	Infiltration Rate	
Design Storms Used Fo	or Calculations				
Requirement	Rainfall Depth	Design Storm			
Pollution Reduction	0.8 inches	Water Quality			
Flow Control	5.1 inches	Flood Control			
Destination	5.1 inches	Flood Control			
Facility Data	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	Eacility Type=	Infiltration Stormwater	Diantor Essili	ty Surface Area-	194.9 caft
				ty Surface Area=	184.8 sqft
	Surface Width=	6.6 ft	_	rface Perimeter=	69.2 ft
-	Surface Length=	28 ft		ty Bottom Area=	185 sqft
	acility Side Slopes=	0 to 1	Facility Bo	ttom Perimeter=	69 ft
Max. Ponding Depth in Stormwater Facility=		6 in		Basin Volume=	92.4 cf

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Ratio of Facility Area to Impervious Area=

0.079

18 in

Depth of Growing Medium (Soil)=

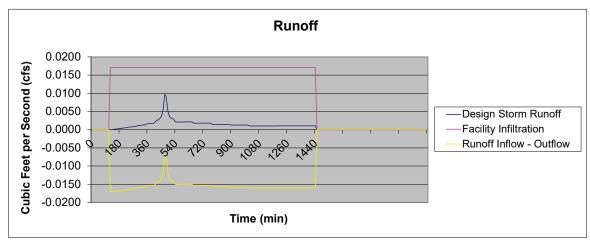
Peak Flow Rate to Stormwater Facility =	0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs							
Total Runoff Volume to Stormwater									
Facility =	122 cf	Total Overflow Volume= 0 cf							
Max. Depth of Stormwater in Facility=	0.0 in								
Drawdown Time=	0.2 hours								
Yes Facility Sizing Meets Pollution Reduction Standards?									
YES Meets Require	ement of No Facility Flood	ling?							
YES Meets Requirement for Maximum of 18 Hour Drawdown Time?									
Flow Control-Calculation Results									
Peak Flow Rate to Stormwater Facility =	0.072 cfs	Peak Facility Overflow Rate= 0.020 cfs							
Total Runoff Volume to Stormwater									
Facility =	942 cf	Total Overflow Volume= 27 cf							
		Peak Off-Site Flow Rate							
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs							
Drawdown Time=	0.2 hours								
Pre-Development Run									
Peak Flow Rate = 0.072 cfs									
Total Runoff Volume = 944 cf									
Yes Facility Sizing Meets Flow Control Standards?									
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?									
Destination-Calculation Results									
Peak Flow Rate to Stormwater Facility =	0.072 cfs	Peak Facility Overflow Rate= 0.000 cfs							
Total Runoff Volume to Stormwater Facility =	040 of	Total Overflow Volumes							
Max. Depth of Stormwater in Facility=	942 cf 5.8 in	Total Overflow Volume= 0 cf							
Drawdown Time=	0.2 hours								
Diawdown Time-	0.2 Hours								
Yes Facility Sizing Meets Destination Standards?									
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?									

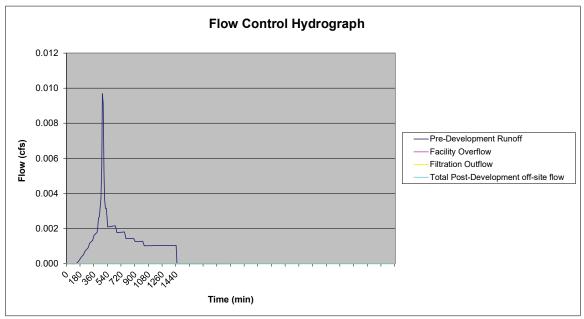
1/27/2021-12:23 PM 2

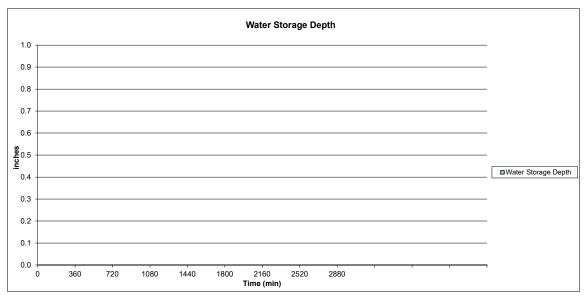
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 1L

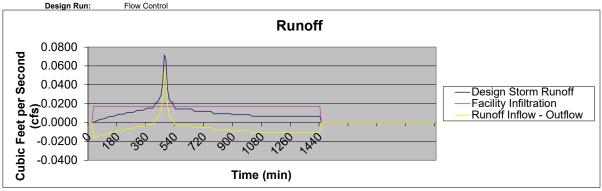
Design Run: Pollution Reduction

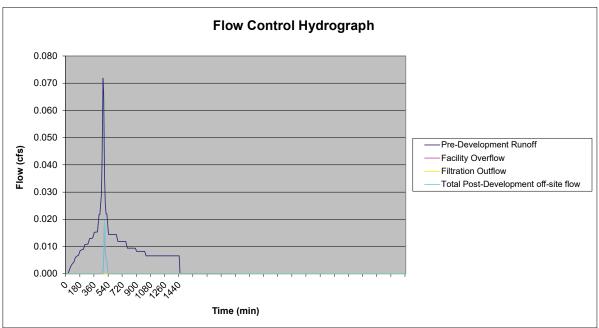


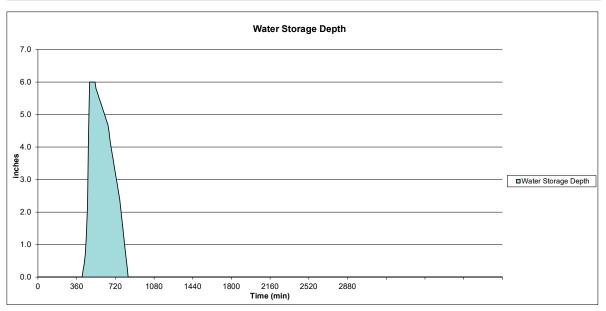




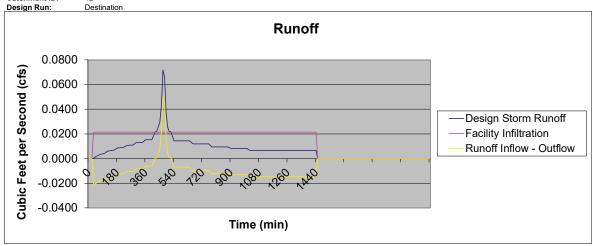
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1L
Design Run: Flow Control

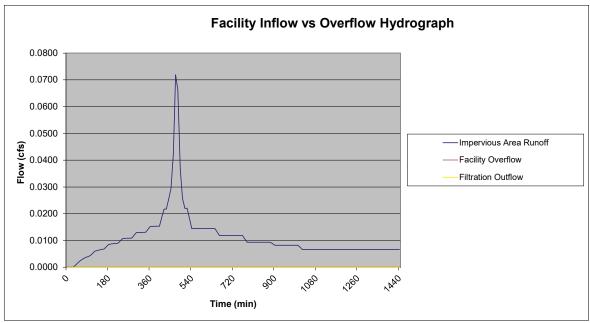


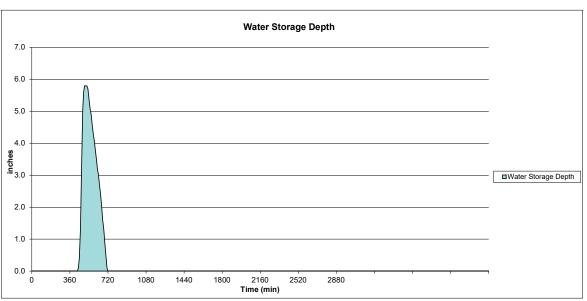




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1L
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	NA		
	Florence, OR			Catchment ID:	<u>1M</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
Instructions:							
	each drainage catchment in	the project site th	nat is to be size	d per the Presum	ntive Approach		
Provide a distinctive C calculations with the factors	atchment ID for each facility acility.	coordinated with t	the site basin n	nap to correlate th	e appropriate		
	e catchment to be modeled						
	in Class A or B soils where r				filtration rate of	0.5 in/hr.	
For all facilities use a	maximum soil infiltration rate	of 2.5 in/hr for top	psoil/growing m	edium.			
Design Requirements:							
Choose "Yes" from the d	ropdown boxes below next to	o the design stand	dards requireme	ents for this facility	/.		
Pollution Reduction	on (PR) Yes						
Flow Conti							
	` '						
Destination	on (DT) Yes *An infiltr	ration facility must be ch	hosen as the facility	type to meet destinati	ion requirements		
Site Data-Post Develop	ment						
		2447 oaft	Total S	nuara Faataga B	omious Aros-I	0	ooft
Total Square Footage Impervious Area 2447 sqft Total Square Footage Pervious Area 0 sqft Impervious Area CN= 98 Pervious Area CN= 85							
1111	pervious Area CN=	98		Pervi	ous Area CN-	85	
Total Square Footage of Drainage Area 2447 sft Time of Concentration Post Development 5 min							
Total Square Footage of Drainage Area 2447 sft Time of Concentration Post Development 5 min Weighted Average CN= 98							
Site Data-Pre Developm		ion is only used i	if Flow Contro	l is required)			
·	e-Development CN=	98		ncentration Pre-D	Development=	5	min
Soil Data					· .		
	oil Infiltration Pate=	10 in/hr (See Note	e 4)	Dostin	ation Design=[51	in/hr
Tested Soil Infiltration Rate= 10 in/hr (See Note 4) Destination Design= 5 in/hr Design Soil Infiltration Rate= 4 in/hr Soil Infiltration Rate							
Design Storms Used Fo							
		. 04					
Requirement Pollution Reduction		n Storm					
Flow Control		Quality Control					
Destination	5.1 inches Flood (
	3.1 Inches 1 lood (20111101					
Facility Data							
	Facility Type= Infiltra		Planter	_	Surface Area=	238.7	1
Surface Width= 7.7 ft Facility Surface Perimeter= 77.4 ft							
Surface Length= 31 ft				-	Bottom Area=	116	
Facility Side Slopes = 3 to 1 Facility Bottom Perimeter = 63 ft							π
Max. Ponding Depth in Stormwater Facility= 7 in Basin Volume= 106.9 cf							cf
Depth of Grow	Ratio of Fac	اط ility Area to Impo		0.098			
	U	18 in		,			

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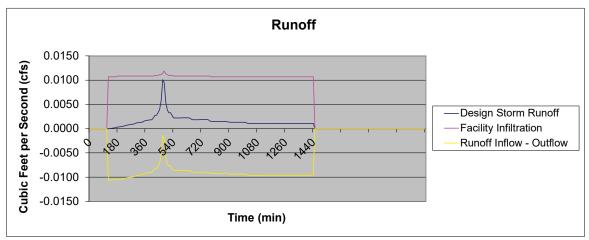
Peak Flow Rate to Stormwater Facility = 0.010 cfs Total Runoff Volume to Stormwater Facility = 128 cf Max. Depth of Stormwater in Facility = 0.0 in	Overflow Rate= 0.000 cfs rflow Volume= 0 cf
Facility = 128 cf Total Ove	rflow Volume= 0 cf
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rflow Volume= 0 cf
Max Donth of Stormwater in Eacility 0.0 in	
max. Depth of Stormwater in Facility-	
Drawdown Time= 0.2 hours	
Yes Facility Sizing Meets Pollution Reduction Standards?	
YES Meets Requirement of No Facility Flooding?	
YES Meets Requirement for Maximum of 18 Hour Drawdown Time?	
Flow Control-Calculation Results	
Peak Flow Rate to Stormwater Facility = 0.075 cfs Peak Facility C	Overflow Rate= 0.023 cfs
Total Runoff Volume to Stormwater	
Facility = 981 cf Total Over	rflow Volume= 27 cf
Peak Off-	Site Flow Rate
Max. Depth of Stormwater in Facility= 7.0 in Filtration Facility	ty Underdrain= N\A cfs
Drawdown Time= 0.2 hours	
Pre-Development Runoff Data	
Peak Flow Rate = 0.075 cfs	
Total Runoff Volume = 984 cf	
Yes Facility Sizing Meets Flow Control Standards?	
YES Meets Requirement for Post Development offsite flow less or edition YES Meets Requirement for Maximum of 18 Hour Drawdown Time?	qual to Pre-Development Flow?
Destination-Calculation Results	
Peak Flow Rate to Stormwater Facility = 0.075 cfs Peak Facility C	Overflow Rate= 0.000 cfs
	rflow Volume= 0 cf
Max. Depth of Stormwater in Facility= 6.8 in	
Drawdown Time= 0.2 hours	
Yes Facility Sizing Meets Destination Standards?	
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?	

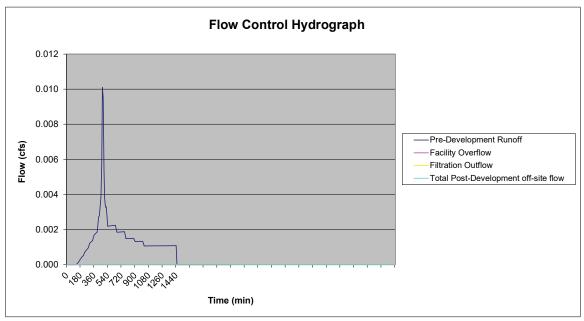
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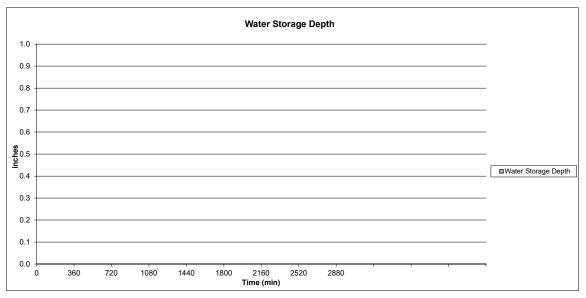
Project Name: Permit Number: Catchment ID:

NA 1M Design Run: Pollution Reduction

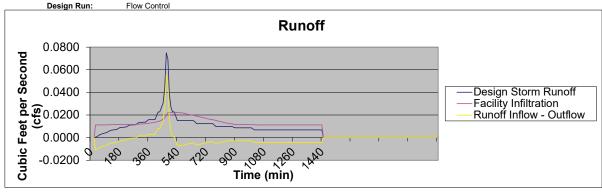
Three Mile Prairie

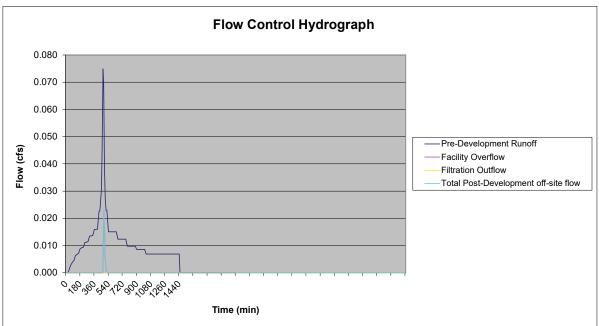


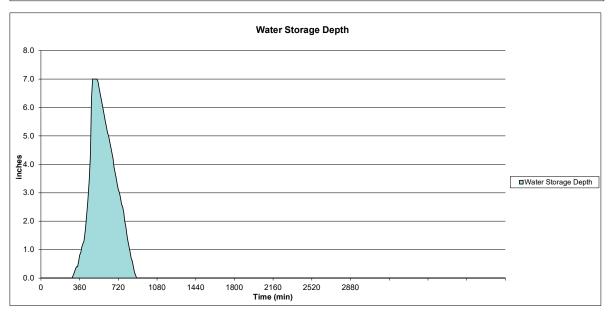




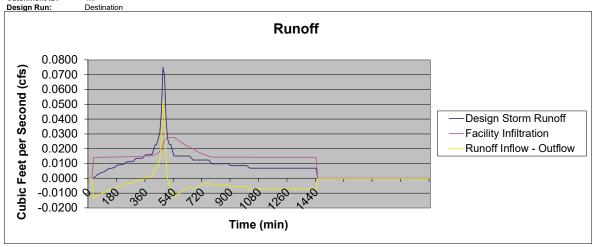
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1M
Design Run: Flow Control

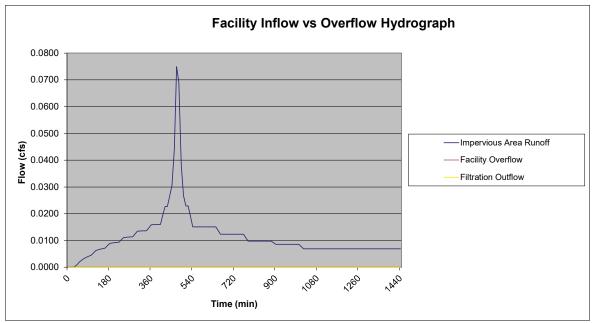


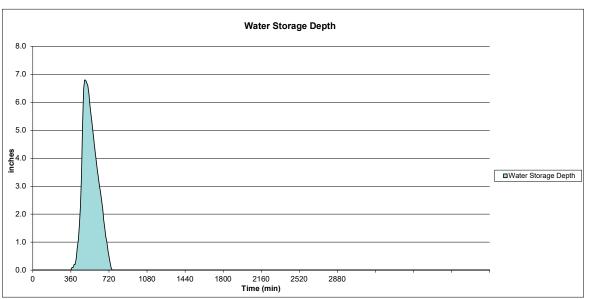




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1M









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie		Date:	12/30/2020	
Project Address:	18-12-15-00-00200		Permit Number:	NA	
	Florence, OR		Catchment ID:	<u>1N</u>	
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Instructions:					
	r each drainage catch	ment in the project site th	at is to be sized per the Presum	ntive Annroach	
•	-	• •	the site basin map to correlate the		
calculations with the fa		racinty coordinated with t	ine site basin map to correlate ti	те арргорпате	
	•	odeled her the Presumnti	ve Approach is 1 acre (43,560 S	SE)	
			ig has been perfromed use an ir		5 in/hr
		ion rate of 2.5 in/hr for top		illitation rate of 0.c	, 11,111.
		Torriate or 2.5 in/in for top	Joon/growing mediam.		
Design Requirements:					
Choose "Yes" from the d	ropdown boxes belov	w next to the design stand	ards requirements for this facilit	V.	
		· · · · · · · · · · · · · · · · · · ·		,.	
Pollution Reduction	on (PR) Yes				
Flow Cont	rol (FC) Yes				
Destinati	` ′	*An infiltration facility must be ch	nosen as the facility type to meet destinat	tion requirements	
200	o (21)	I	locorr do the racinty type to most documen	on roquiromonio	
Site Data-Post Develop	ment				
Total Square Footag	e Impervious Area=	2822 sqft	Total Square Footage P	ervious Area=	0 sqft
-	pervious Area CN=	98		ious Area CN=	85
	ipei vious Aieu Oiv		1 0.1 4.1	LOUS AIGU ON	00
Total Square Footage	e of Drainage Area=	2822 sft	Time of Concentration Post I	Development=	5 min
-	ghted Average CN=				
			f Flour Comtrol in nonvined)		
Site Data-Pre Developn	·		f Flow Control is required)		
Pre	e-Development CN=	98	Time of Concentration Pre-l	Development=	5 min
Soil Data					
Tested So	oil Infiltration Rate=	10 in/hr (See Note	Destin	nation Design=	5 in/hr
Design So	oil Infiltration Rate=	4 in/hr	Soil Ir	nfiltration Rate	
Design Storms Used Fo	or Calculations				
Requirement	Rainfall Depth	Design Storm			
Pollution Reduction	0.8 inches	Water Quality			
Flow Control	5.1 inches	Flood Control			
Destination	5.1 inches	Flood Control			
Facility Data	· ·				
	Facility Typo-	Infiltration Stormwater	Planter Facility	Surface Area=	226.8 sqft
	Surface Width=	4.2 ft		ice Perimeter=	116.4 ft
	Surface Width=	4.2 It		Bottom Area=	227 sqft
E.	=acility Side Slopes	0 to 1		om Perimeter=	116 ft
	Ponding Depth	0 10 1	racinty botto	/ Fermileter-	11011
	mwater Facility=	6 in	В	Basin Volume=	113.4 cf

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Ratio of Facility Area to Impervious Area=

0.080

18 in

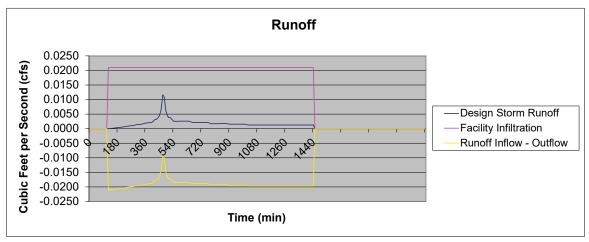
Depth of Growing Medium (Soil)=

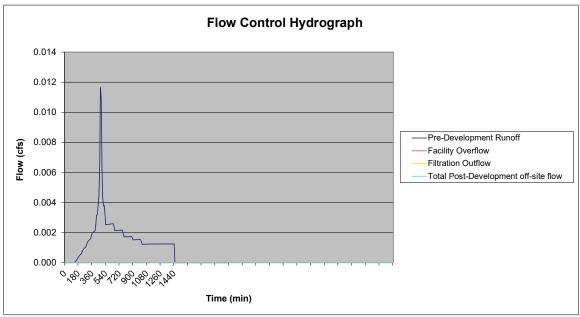
Pollution Reduction-Calculation Results		
Peak Flow Rate to Stormwater Facility =	0.012 cfs	Peak Facility Overflow Rate= 0.000 cfs
Total Runoff Volume to Stormwater		
Facility =	147 cf	Total Overflow Volume= 0 cf
Max. Depth of Stormwater in Facility=	0.0 in	
Drawdown Time=	0.2 hours	
Yes Facility Sizing Me	eets Pollution Redu	ction Standards?
YES Meets Requ	irement of No Facility I	Flooding?
YES Meets Requ	irement for Maximum	of 18 Hour Drawdown Time?
Flow Control-Calculation Results		
Peak Flow Rate to Stormwater Facility =	0.086 cfs	Peak Facility Overflow Rate= 0.023 cfs
Total Runoff Volume to Stormwater		, in the second
Facility =	1132 cf	Total Overflow Volume= 27 cf
1		Peak Off-Site Flow Rate
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs
Drawdown Time=	0.2 hours	
Pre-Development Ru	inoff Data	
Peak Flow Rate =	0.086 cfs	
Total Runoff Volume =	1134 cf	
l		
Yes Facility Sizing Me	eets Flow Control S	tandards?
YES Meets Requ		opment offsite flow less or equal to Pre-Development Flow? of 18 Hour Drawdown Time?
Destination-Calculation Results		
Peak Flow Rate to Stormwater Facility = Total Runoff Volume to Stormwater	0.086 cfs	Peak Facility Overflow Rate= 0.000 cfs
Facility =	1132 cf	Total Overflow Volume= 0 cf
Max. Depth of Stormwater in Facility=	5.5 in	
Drawdown Time=	0.2 hours	
Yes Facility Sizing Mo	eets Destination Sta	andards?
	irement of No Facility I	Flooding? of 30 hour Drawdown Time?

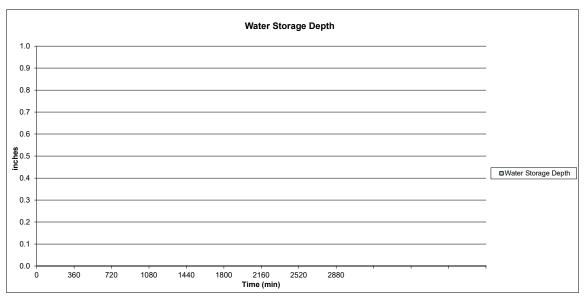
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Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1N

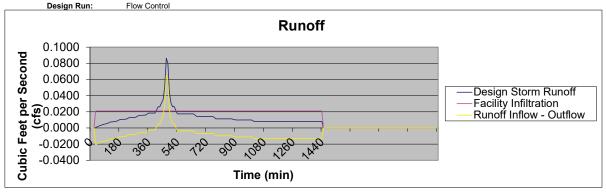
Design Run: Pollution Reduction

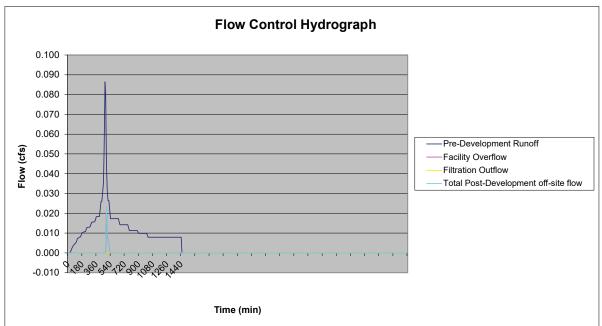


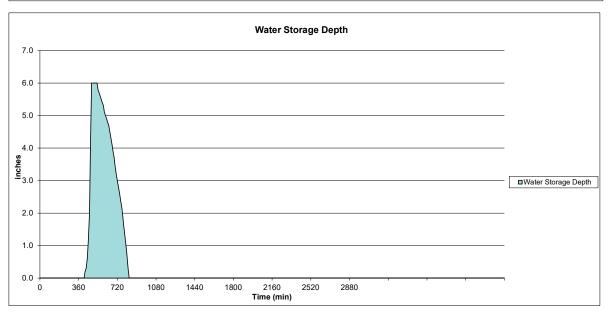




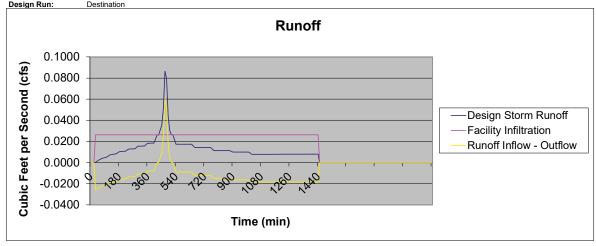
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1N
Design Run: Flow Control

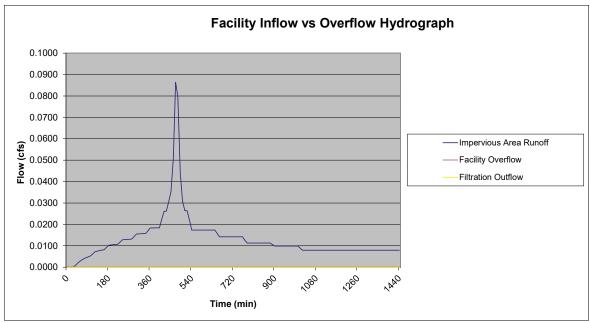


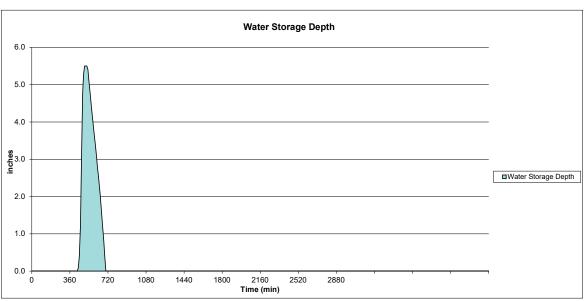




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1N
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Oity of Lageric						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	<u>NA</u>		
	Florence, OR			Catchment ID:	<u>10</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
 Provide a distinctive C calculations with the fa The maximum drainag For infiltration facilities For all facilities use a result of the control of the calculations. 	atchment ID for each acility. Je catchment to be m in Class A or B soils maximum soil infiltrat	ment in the project site that facility coordinated with the odeled per the Presumptive where no infiltration testingtion rate of 2.5 in/hr for tops	ne site basin re Approach g has been p	map to correlate the is 1 acre (43,560 Sperfromed use an ir	ne appropriate		
Design Requirements:							
Choose "Yes" from the d Pollution Reduction Flow Control Destination	on (PR) Yes rol (FC) Yes	v next to the design standa *An infiltration facility must be cho					
Site Data-Post Develop	ment						
Im Total Square Footage	Total Square Footage Impervious Area						
Site Data-Pre Developm	nent (Data in th	is section is only used if	Flow Contr	ol is required)			
Pre	e-Development CN=	98	Time of Co	oncentration Pre-I	Development=	5	min
Soil Data							
	oil Infiltration Rate= oil Infiltration Rate=	10 in/hr (See Note 4 in/hr	4)		ation Design=[nfiltration Rate	5	in/hr
Design Storms Used Fo	or Calculations						
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction	0.8 inches	Water Quality					
Flow Control	5.1 inches	Flood Control					
Destination	5.1 inches	Flood Control					
Facility Data	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Fa Max. I	Surface Width= Surface Length= acility Side Slopes= Ponding Depth	Infiltration Stormwater F 7.7 ft 9 ft 3 to 1	Planter	Facility Surfa Facility Facility Botto	Surface Area= ce Perimeter= Bottom Area= om Perimeter=	21	ft sqft ft
in Store	in Stormwater Facility= 6 in Basin Volume= 26.6 cf						

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Ratio of Facility Area to Impervious Area=

0.126

18 in

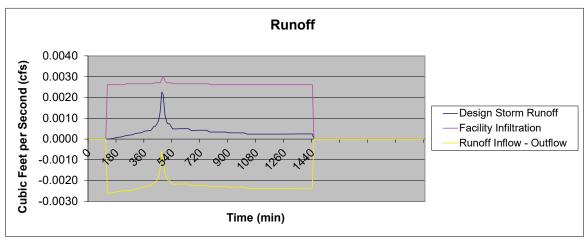
Depth of Growing Medium (Soil)=

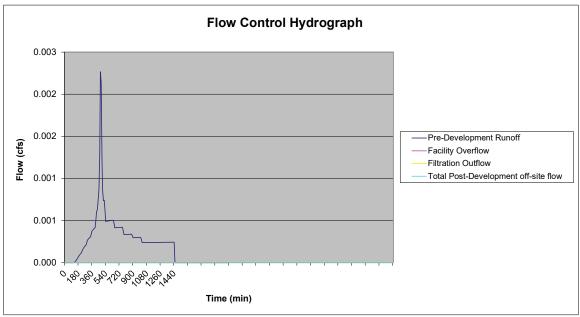
Pollution Reduction-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.002 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater							
Facility =	29 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	0.0 in						
Drawdown Time=	0.2 hours						
Yes Facility Sizing M	Yes Facility Sizing Meets Pollution Reduction Standards?						
YES Meets Req	uirement of No Faci	lity Flooding?					
YES Meets Req	uirement for Maxim	um of 18 Hour Drawdown Time?					
Flow Control-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater							
Facility =	220 cf	Total Overflow Volume= 0 cf					
1		Peak Off-Site Flow Rate					
Max. Depth of Stormwater in Facility=	5.7 in	Filtration Facility Underdrain= N\A cfs					
Drawdown Time=	0.2 hours						
Pre-Development R							
Peak Flow Rate =	0.017 cfs						
Total Runoff Volume =	221 cf						
Yes Facility Sizing M	eets Flow Contro	ol Standards?					
		evelopment offsite flow less or equal to Pre-Development Flow? um of 18 Hour Drawdown Time?					
Destination-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Facility =	220 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	4.9 in						
Drawdown Time=	0.2 hours						
Yes Facility Sizing M	eets Destination	Standards?					
	uirement of No Faci uirement for Maxim	lity Flooding? um of 30 hour Drawdown Time?					

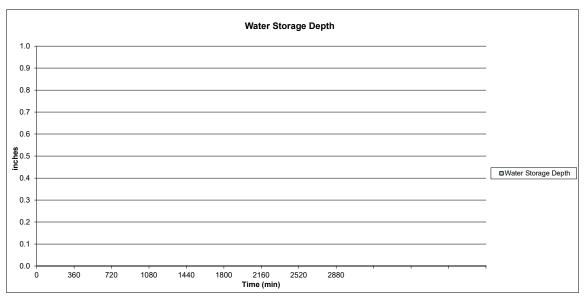
1/27/2021-12:28 PM 2

Project Name: Permit Number: Catchment ID: Three Mile Prairie NA 10

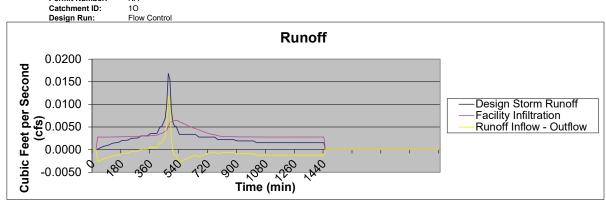
Design Run: Pollution Reduction

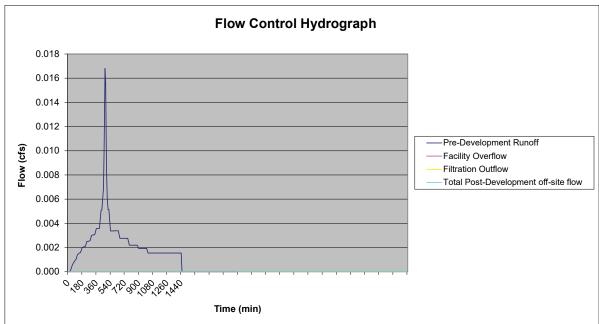


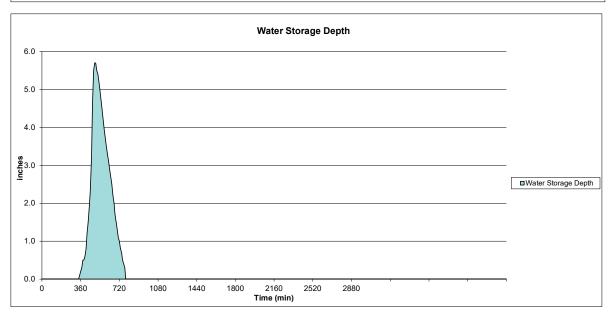




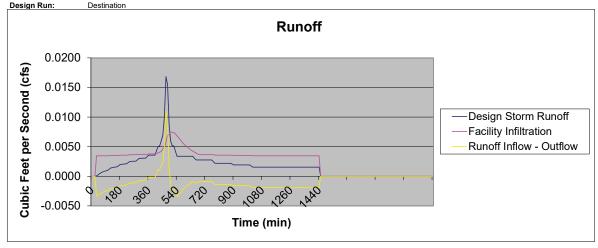
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 10

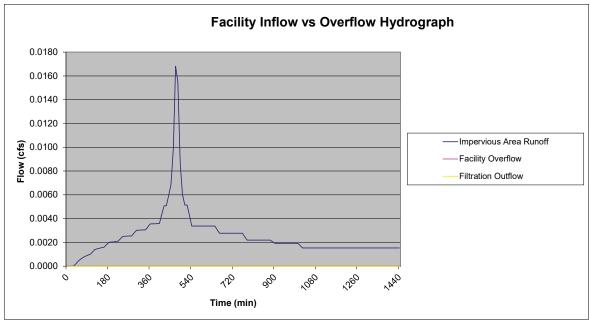


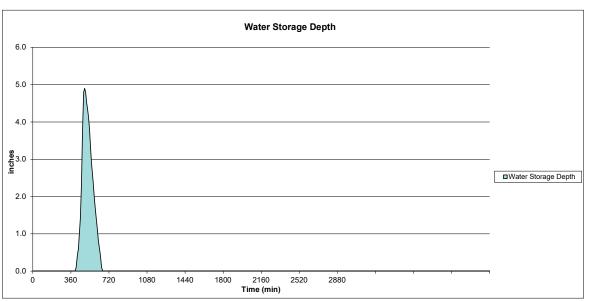




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 10
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

Project Information Project Name: Intree Mile Prairie Project Address: 18-12-15-09-08200 Project Address: 18-12-15-09-08200 Project Address: 18-12-15-09-08200 Pornate Mile Prairie Project Address: 18-12-15-09-08200 Pornate Mile Mile Prairie Project Address: 18-12-15-09-08200 Pornate Mile Mile Prairie Possigner: Clint Beerroft Company: EGR & Associates Instructions: 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsolf-growing medium. Possign Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes Flow Control (FC) Yes Destination (DT) Yes An infiliation facility must be chosen as the facility type to meet destination requirements Site Data-Post Development Total Square Footage Impervious Area Weighted Average CNe 98 Total Square Footage Pervious Area CNe 98 Time of Concentration Post Development Free Development (Ne 98 Time of Concentration Post Development Free Development (Ne 98 Time of Concentration Post Development Free Development Pre-Development Pre-Development Tested Soil Infiltration Rate Prescribed Soi		,g				
Project Address: 18-12-15-00-00200 Permit Number: NA Project Address: 18-12-15-00-00200 Permit Number: NA Permit Numbe		Version 2.1				
Project Address: 1. Centerogous 1. Section 1. Sect	Project Information					
Company: Elorence, OR Catchment ID: 2A	Project Name:	Three Mile Prairie			·	
Designer: Climt Beacroft EQR & Associates Instructions: 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes Flow Control (FC) Yes Destination (DT) Yes An infiltration facility must be chosen as the facility type to meet destination requirements Site Data-Post Development Total Square Footage Impervious Areas 4201 sqft Total Square Footage Pervious Area Ne Impervious Area CNe 98 Total Square Footage of Drainage Areas 4201 sqft Time of Concentration Post Development 5 min Weighted Average CNe 98 Total Square Footage of Drainage Areas 4201 sqft Time of Concentration Pre-Development 5 min Soil Data Tested Soil Infiltration Rate 10 in/hr (See Note 4) Destination Design 5 in/hr Soil Infiltration Rate 4 in/hr Soil Infiltration Rate 5 in/hr Soil Infiltration Rate 6 In/hr Soil Infiltration Rate 7 in/hr Soil Infiltration Rate 7 in/hr Soil Infiltration Rate 8 Facility Surface Area 5 in/hr Facility Surface Perimeter 5 in/hr Facility Surface Lengthe 7 in Ratifilia Depth 6 in Ratifili	Project Address:	18-12-15-00-00200		Permit Number	r: <u>NA</u>	
Instructions: 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For inflitration facilities in Class A or B soils where no inflitration testing has been perfromed use an inflitration rate of 0.5 in/hr. For all facilities use a maximum soil inflitration rate of 2.5 in/hr for topsoil/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes Flow Control (FC) Yes Destination (DT) Yes An inflitration facility must be chosen as the facility type to meet destination requirements Site Data-Post Development Total Square Footage Impervious Area= 4201 sqft Total Square Footage Pervious Area CN= 85 Total Square Footage of Drainage Area= 4201 sft Time of Concentration Post Development= 5 min Weighted Average CN= 96 Time of Concentration Pre-Development= 5 min Soil Data Tested Soil Inflitration Rate= 10 in/hr (See Note 4) Destination Design= 5 in/hr Soil Inflitration Rate= 4 in/hr Soil Inflitration Rate= 6 in/hr Soil Inflitration Rate= 7 in/hr Facility Surface Area= 5 in/hr Facility Surface Area= 5 in/hr Facility Surface Perimeter= 164.4 ft Facility Surface Perimeter= 164.4 ft Facility Surface Perimeter= 164.4 ft Facility Surface Perimeter= 166.4 ft Facility Surface Perimeter= 166.4 ft Facility Surface Perimeter= 166.4 ft Facility Bottom Area= 328 sqt Facility Bottom Perimeter= 164.4 ft Facility Bottom Area= 328 sqt Facility Surface Perimeter= 164.4 ft Facility Bottom Area= 164.4 ft Facility Bottom Area= 164.4 ft Facility Surface Perimeter= 164.4 ft Facilit		Florence, OR		Catchment ID:	<u>2A</u>	
Instructions: 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the salety and the salety of the presumptive and the salety and the s	Designer:	Clint Beecroft				
1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For inflitration facilities in Class A or B soils where no infiltration testing has been performed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Flow Control (FC) Ves Destination (DT) Yes Yes Flow Control (FC) Yes Destination (DT) Yes Yes Total Square Footage Previous Area Impervious Area Impervious Area Impervious Area Impervious Area A201 sqft Total Square Footage Previous Area Impervious Area Registed Average CN= 98 Total Square Footage of Drainage Area Weighted Average CN= 98 Time of Concentration Post Development= Tested Soil Infiltration Rate Design Soil Infiltration Rate Design Soil Infiltration Rate Design Soil Infiltration Rate Design Soil Infiltration Rate Posting Soil Infiltration Rate Design Soil Infiltration Rate Soil Data Facility Type Flow Control Destination Soil Data Facility Type Flood Control Destination Facility Type Flood Control Destination Facility Surface Perimeter= Facility Bottom Areas Facility Bottom Perimeter= 164 ft	Company:	EGR & Associates				
Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes Flow Control (FC) Destination (DT) Yes **An infiltration facility must be chosen as the facility type to meet destination requirements Site Data-Post Development Total Square Footage Impervious Area Impervious Area CN	1. Complete this form for 2. Provide a distinctive C calculations with the fa 3. The maximum drainag 4.For infiltration facilities For all facilities use a recommendation.	atchment ID for eac acility. e catchment to be n in Class A or B soils	h facility coordinated with the nodeled per the Presumptive where no infiltration testing h	site basin map to correlate Approach is 1 acre (43,560 has been perfromed use an	the appropriate	in/hr.
Pollution Reduction (PR) Flow Control (FC) Destination (DT) Yes An infiltration facility must be chosen as the facility type to meet destination requirements Site Data-Post Development Total Square Footage Impervious Area= Impervious Area CN= 98 Total Square Footage of Drainage Area= Weighted Average CN= 98 Time of Concentration Post Development= 5 min Site Data-Pre Development (Data in this section is only used if Flow Control is required) Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min Soil Data Tested Soil Infiltration Rate= Design Soil Infiltration Rate= Design Soil Infiltration Rate= Design Storms Used For Calculations Requirement Rainfall Depth Pollution Reduction 0.8 inches Water Quality Flow Control 5.1 inches Flood Control Destination 5.1 inches Flood Control Destination Facility Data Facility Type= Surface Width= Surface Length= Facility Side Slopes= Max. Ponding Depth M	Design Requirements:					
Total Square Footage Impervious Area	Pollution Reduction	on (PR) Yes]	·	·	
Total Square Footage of Drainage Area	Site Data-Post Develop	ment				
Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min	Im Total Square Footage	pervious Area CN= of Drainage Area=	98 4201 sft T	Perv	vious Area CN=	85
Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min	Site Data-Pre Developm	nent (Data in t	his section is only used if F	low Control is required)		
Tested Soil Infiltration Rate= 10 in/hr (See Note 4) Design Soil Infiltration Rate Design Soil Infiltration Rate= 4 in/hr Design Storms Used For Calculations Requirement Rainfall Depth Design Storm Pollution Reduction 0.8 inches Water Quality Flow Control 5.1 inches Flood Control Destination 5.1 inches Flood Control Facility Data Facility Type= Infiltration Stormwater Planter Surface Width= 4.2 ft Facility Surface Area= 327.6 sqft Facility Surface Length= 78 ft Facility Bottom Area= 328 sqft Facility Side Slopes= 0 to 1 Facility Bottom Perimeter= 164.4 ft Fac		·			-Development=	5 min
Design Storms Used For Calculations Requirement Rainfall Depth Design Storm	Soil Data					
Requirement Rainfall Depth Design Storm Pollution Reduction 0.8 inches Water Quality Flow Control 5.1 inches Flood Control Destination 5.1 inches Flood Control Facility Data Facility Type= Infiltration Stormwater Planter Surface Width= Surface Width= Surface Length= Facility Side Slopes= Max. Ponding Depth Rainfall Depth Design Storm Water Quality Flood Control Facility Surface Area= 327.6 sqft Facility Surface Perimeter= 164.4 ft Facility Bottom Area= 328 sqft Facility Side Slopes= 164 ft						5 in/hr
Pollution Reduction 0.8 inches Water Quality Flow Control 5.1 inches Flood Control Destination 5.1 inches Flood Control Facility Data Facility Type	Design Storms Used Fo	or Calculations				
Pollution Reduction 0.8 inches Water Quality Flow Control 5.1 inches Flood Control Destination 5.1 inches Flood Control Facility Data Facility Type	Requirement	Rainfall Depth	Design Storm			
Flow Control Destination 5.1 inches Flood Control Facility Data Facility Type= Infiltration Stormwater Planter Surface Width= 4.2 ft Facility Surface Perimeter= 164.4 ft Facility Side Slopes= Max. Ponding Depth Flood Control Facility Type= Infiltration Stormwater Planter Facility Surface Area= 327.6 sqft Facility Surface Perimeter= 164.4 ft Facility Bottom Area= 328 sqft Facility Side Slopes= 164 ft Facility Bottom Perimeter= 164 ft Facili						
Facility Type= Infiltration Stormwater Planter Surface Width= 4.2 ft Facility Surface Perimeter= 327.6 sqft Surface Length= 78 ft Facility Bottom Area= 328 sqft Facility Side Slopes= 0 to 1 Facility Bottom Perimeter= 164 ft Max. Ponding Depth	Flow Control					
Facility Type Infiltration Stormwater Planter Facility Surface Area = 327.6 sqft Surface Width = 4.2 ft Facility Surface Perimeter = 164.4 ft Surface Length = 78 ft Facility Bottom Area = 328 sqft Facility Side Slopes = 0 to 1 Facility Bottom Perimeter = 164 ft Max. Ponding Depth	Destination	5.1 inches	Flood Control			
Facility Type Infiltration Stormwater Planter Facility Surface Area = 327.6 sqft Surface Width = 4.2 ft Facility Surface Perimeter = 164.4 ft Surface Length = 78 ft Facility Bottom Area = 328 sqft Facility Side Slopes = 0 to 1 Facility Bottom Perimeter = 164 ft Max. Ponding Depth	Facility Data					
	Facility Type= Infiltration Stormwater Planter Surface Width= 4.2 ft Facility Surface Perimeter= 164.4 ft Surface Length= 78 ft Facility Bottom Area= 328 sqft Facility Side Slopes= 0 to 1 Facility Bottom Perimeter= 164 ft ft Max. Ponding Depth					

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Ratio of Facility Area to Impervious Area=

Depth of Growing Medium (Soil)=

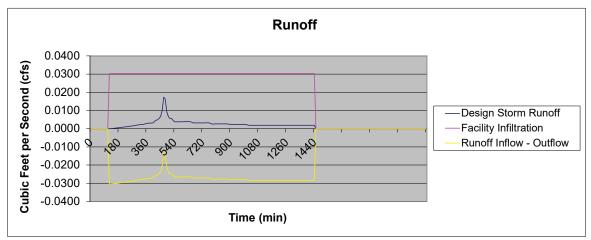
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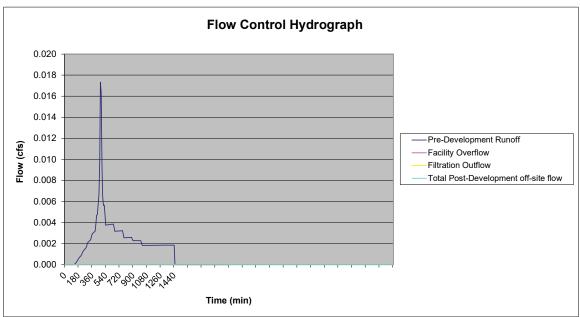
Pollution Reduction-Calculation Results	
Peak Flow Rate to Stormwater Facility = 0.0	17 cfs Peak Facility Overflow Rate= 0.000 cfs
Total Runoff Volume to Stormwater	
	19 cf Total Overflow Volume= 0 cf
	0.0 in
Drawdown Time=	0.2 hours
Yes Facility Sizing Meets P	ollution Reduction Standards?
YES Meets Requiremen	t of No Facility Flooding?
YES Meets Requiremen	t for Maximum of 18 Hour Drawdown Time?
Flow Control-Calculation Results	
Peak Flow Rate to Stormwater Facility = 0.1	29 cfs Peak Facility Overflow Rate= 0.036 cfs
Total Runoff Volume to Stormwater	-
Facility = 16	85 cf Total Overflow Volume= 53 cf
	Peak Off-Site Flow Rate
	6.0 in Filtration Facility Underdrain= N\A cfs
Drawdown Time=	0.2 hours
Dra Davidanmant Bune# D	•
Pre-Development Runoff D Peak Flow Rate = 0.1	29 cfs
	88 cf
Total Ranon Volume	<u> </u>
Yes Facility Sizing Meets F	ow Control Standards?
	t for Post Development offsite flow less or equal to Pre-Development Flow? t for Maximum of 18 Hour Drawdown Time?
Destination-Calculation Results	
Peak Flow Rate to Stormwater Facility = 0.1 Total Runoff Volume to Stormwater	29 cfs Peak Facility Overflow Rate= 0.000 cfs
	85 cf Total Overflow Volume= 0 cf
	5.9 in
	0.2 hours
Yes Facility Sizing Meets D	estination Standards?
	t of No Facility Flooding? t for Maximum of 30 hour Drawdown Time?

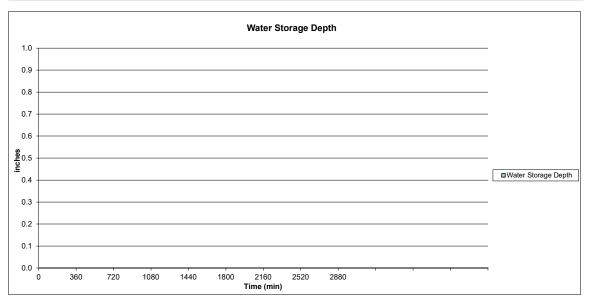
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Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2A

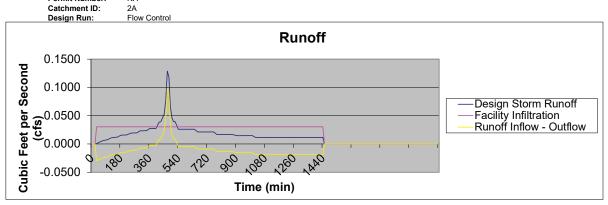
Design Run: Pollution Reduction

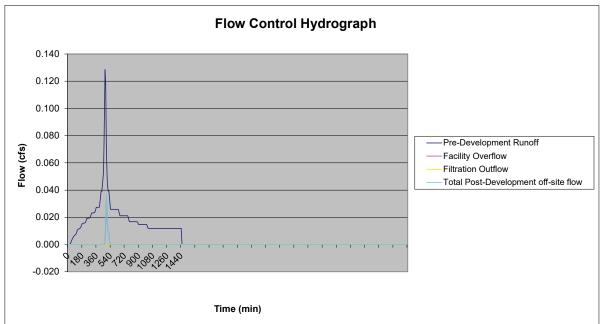


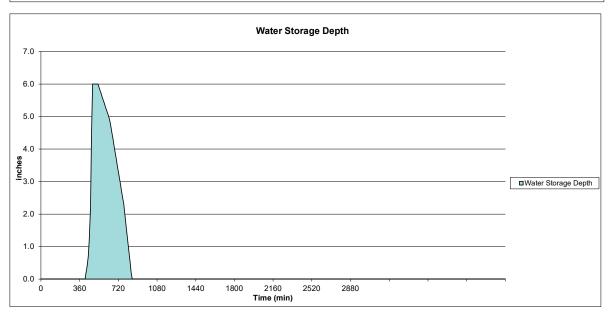




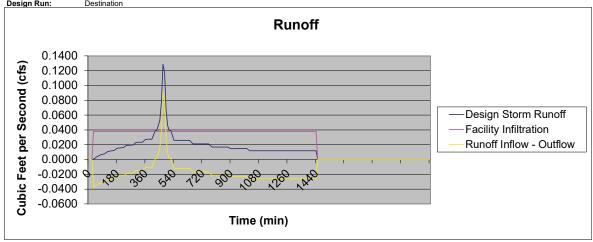
Project Name: Permit Number: Three Mile Prairie 2A Flow Control

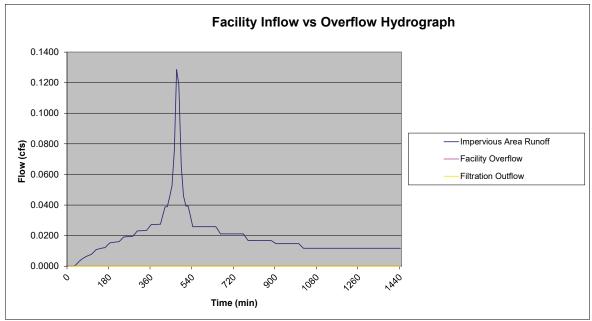


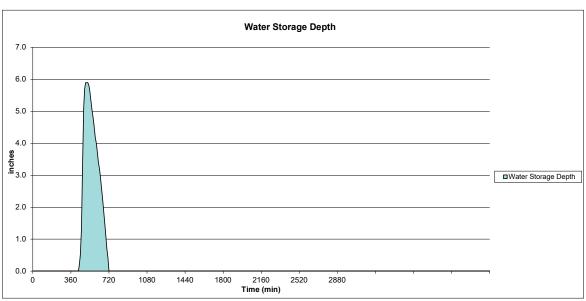




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2A
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	,					
	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie			Date: <u>12/30/20</u>	<u>20</u>	
Project Address:	18-12-15-00-00200	_		Permit Number: <u>NA</u>		
	Florence, OR			Catchment ID: 2B		
Designer:	Clint Beecroft					
Company:	EGR & Associates	<u>s</u>				
 Provide a distinctive C calculations with the fa The maximum drainag For infiltration facilities For all facilities use a result of the control of the control of the calculations. 	atchment ID for each acility. e catchment to be r in Class A or B soil:	chment in the project site that th facility coordinated with the modeled per the Presumptive s where no infiltration testing ation rate of 2.5 in/hr for tops	e site basin m e Approach is I has been pel	nap to correlate the appropr 1 acre (43,560 SF) rfromed use an infiltration ra	riate	
Design Requirements:						
Choose "Yes" from the d Pollution Reduction Flow Continues Destination	on (PR) Yes	w next to the design standar	·	ents for this facility.	ients	
Site Data-Post Develop	ment					
Total Square Footage	pervious Area CN	= 98 = 5354 sft		quare Footage Pervious A Pervious Area centration Post Developm	CN= 85	sqft min
Site Data-Pre Developm	nent (Data in t	his section is only used if	Flow Control	is required)		
	-Development CN			centration Pre-Developm	ent= 5	min
Soil Data						
	oil Infiltration Rate oil Infiltration Rate		1)	Destination Des Soil Infiltration		in/hr
Design Storms Used Fo	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction	0.8 inches	Water Quality				
Flow Control	5.1 inches	Flood Control				
Destination	5.1 inches	Flood Control				
Facility Data						
Facility Data Facility Type= Infiltration Stormwater Planter Surface Width= 4.2 ft Facility Surface Perimeter= 164 ft Facility Side Slopes= 0 to 1 Facility Bottom Perimeter= 164 ft Facility Side Slopes 11 in Stormwater Facility						ft sqft ft

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Ratio of Facility Area to Impervious Area=

0.061

Pollution Reduction-Calculation Results		
Peak Flow Rate to Stormwater Facility =	0.022 cfs	Peak Facility Overflow Rate= 0.000 cfs
Total Runoff Volume to Stormwater		
Facility =	279 cf	Total Overflow Volume= 0 cf
Max. Depth of Stormwater in Facility=	0.0 in	
Drawdown Time=	0.2 hours	
Yes Facility Sizing Mee	ets Pollution Reduction Stan	ndards?
YES Meets Requir	rement of No Facility Flooding?	
YES Meets Requir	rement for Maximum of 18 Hour D	rawdown Time?
Flow Control-Calculation Results		
Peak Flow Rate to Stormwater Facility =	0.164 cfs	Peak Facility Overflow Rate= 0.028 cfs
Total Runoff Volume to Stormwater		,
Facility =	2147 cf	Total Overflow Volume= 75 cf
		Peak Off-Site Flow Rate
Max. Depth of Stormwater in Facility=	11.0 in	Filtration Facility Underdrain= N\A cfs
Drawdown Time=	0.2 hours	
Pre-Development Run		
Peak Flow Rate = Total Runoff Volume =	0.164 cfs 2152 cf	
Total Runoli Volume =	2152 cf	
Yes Facility Sizing Mee	ets Flow Control Standards?	
YES Meets Requir	rement for Post Development offs rement for Maximum of 18 Hour D	ite flow less or equal to Pre-Development Flow? Prawdown Time?
Destination-Calculation Results		
Peak Flow Rate to Stormwater Facility =	0.164 cfs	Peak Facility Overflow Rate= 0.000 cfs
Total Runoff Volume to Stormwater	24.47 - 4	Total Overflow Valumes
Facility =	2147 cf 10.3 in	Total Overflow Volume= 0 cf
Drawdown Time=	0.2 hours	
Diawdown nine-	0.2 Hours	
Yes Facility Sizing Mee	ets Destination Standards?	
	rement of No Facility Flooding? rement for Maximum of 30 hour D	rawdown Time?

1/27/2021-12:47 PM 2

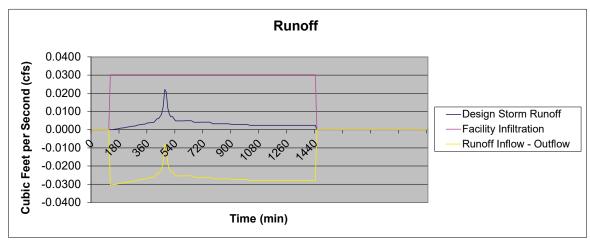
Project Name: Permit Number: Catchment ID:

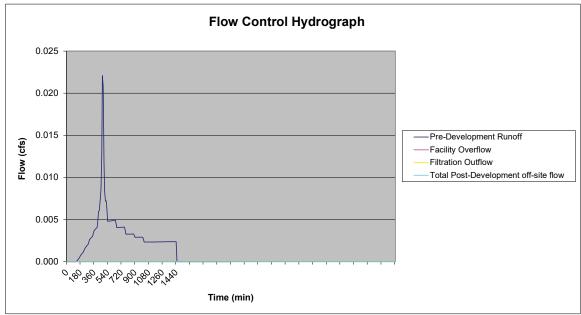
Design Run:

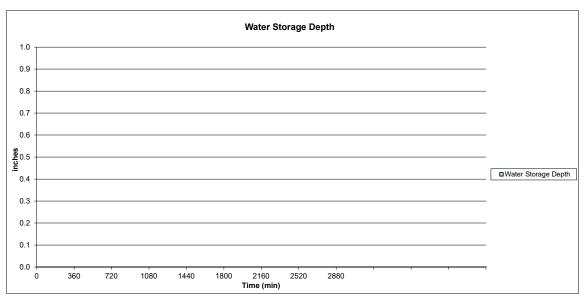
Three Mile Prairie

NA 2B

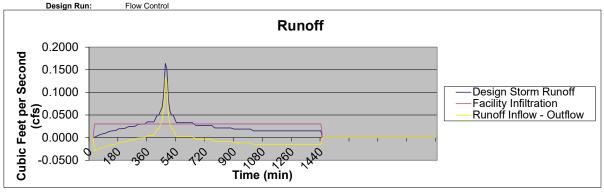
Pollution Reduction

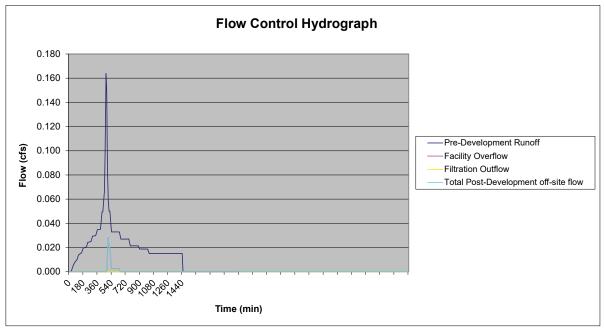


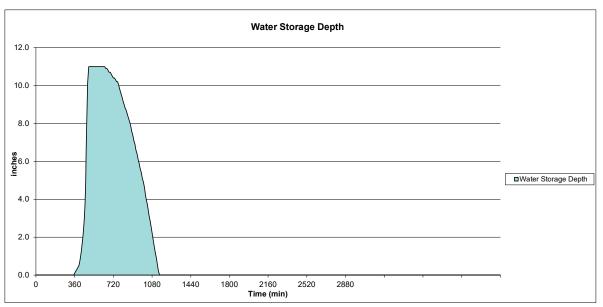




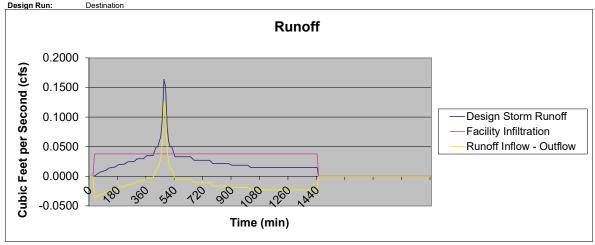
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2B
Design Run: Flow Control

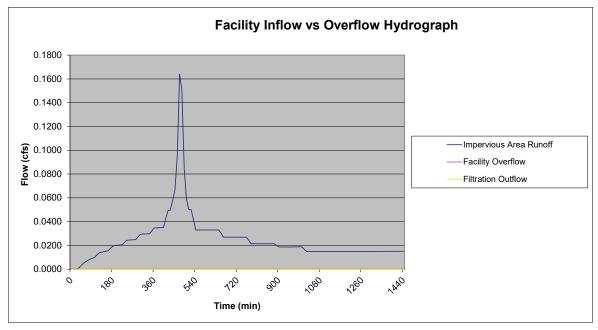


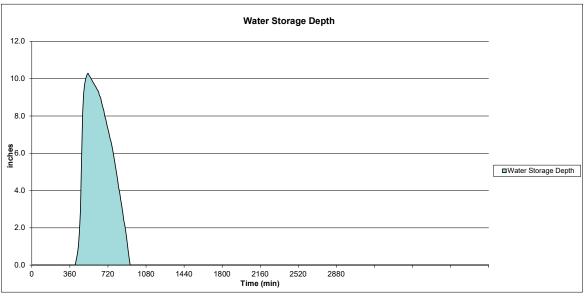




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2B
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	<u>NA</u>		
	Florence, OR			Catchment ID:	<u>2C</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
Instructions:							
	r aaah drainaga aatah	ment in the project site	that is to be siz	and nor the Breeum	entivo Annrocch		
· ·	•			•			
Provide a distinctive (calculations with the f		nacility coordinated with	i tile site basili	map to correlate ti	іе арргорітате		
3. The maximum draina	•	adalad par the Presump	ativo Approach	is 1 acro (43 560 S	:E)		
4.For infiltration facilities						0.5 in/hr	
		ion rate of 2.5 in/hr for to			illiti ation rate or	0.5 111/111.	
		on rate of 2.5 m/m for to	opsoi/growing	inediam.			
Design Requirements	:						
Choose "Yes" from the	dropdown boxes below	v next to the design stan	ndards requiren	nents for this facility	y.		
Pollution Poducti	ion (BB) Voc	İ					
Pollution Reducti							
Flow Cont	` '						
Destinati	ion (DT) Yes	*An infiltration facility must be	chosen as the facil	lity type to meet destinat	ion requirements		
Cita Data Baat Davidar							
Site Data-Post Develor	oment						
Total Square Footag	je Impervious Area=	6875 sqft	Total	Square Footage P	ervious Area=	0	sqft
In	npervious Area CN=	98		Pervi	ious Area CN=	85	
						_1	
Total Square Footag	_	6875 sft	Time of Co	ncentration Post I	Development=	5	min
We	ighted Average CN=	98					
Site Data-Pre Develop	ment (Data in th	is section is only used	l if Flow Contr	ol is required)			
Pr	e-Development CN=	98	Time of Co	oncentration Pre-l	Development=	5	min
Soil Data							
Tested S	oil Infiltration Rate=	10 in/hr (See No	ote 4)	Destin	ation Design=	5	in/hr
Design S	oil Infiltration Rate=	4 in/hr		Soil Ir	nfiltration Rate		
Design Storms Used F	or Calculations						
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction	0.8 inches	Water Quality					
Flow Control	5.1 inches	Flood Control					
Destination	5.1 inches	Flood Control					
Facility Data							
	Facility Type=	Infiltration Stormwate	r Planter	Facility	Surface Area=	537.6	saft
	Surface Width=	4.2 ft		_	ce Perimeter=	264.4	
	Surface Length=	128 ft		-	Bottom Area=	538	
F	acility Side Slopes=	0 to 1		-	m Perimeter=	264	· -
	Ponding Depth			: 20, 20		201	
	mwator Eacility	6 in		В	asin Volumo-	269.9	of

1/27/2021-12:49 PM

Ratio of Facility Area to Impervious Area=

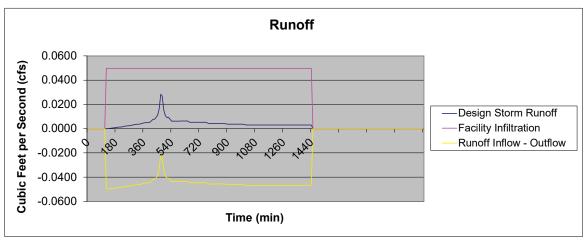
0.078

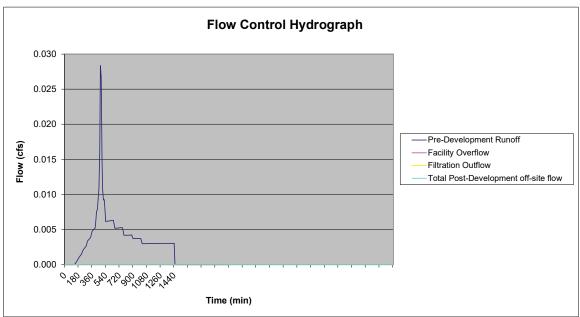
Pollution Reduction-Calculation Results	
Peak Flow Rate to Stormwater Facility = 0.	28 cfs Peak Facility Overflow Rate= 0.000 cfs
Total Runoff Volume to Stormwater	
	cf Total Overflow Volume= 0 cf
Max. Depth of Stormwater in Facility=	0.0 in
Drawdown Time=	0.2 hours
Yes Facility Sizing Meets F	ollution Reduction Standards?
YES Meets Requireme	t of No Facility Flooding?
YES Meets Requireme	t for Maximum of 18 Hour Drawdown Time?
Flow Control-Calculation Results	
Peak Flow Rate to Stormwater Facility = 0.	10 cfs Peak Facility Overflow Rate= 0.058 cfs
Total Runoff Volume to Stormwater	- ·
Facility = 2	cf Total Overflow Volume= 84 cf
	Peak Off-Site Flow Rate
Max. Depth of Stormwater in Facility=	6.0 in Filtration Facility Underdrain= N/A cfs
Drawdown Time=	0.2 hours
Pre-Development Runoff D	
	210 cfs 63 cf
Total Runon Volume = 2	⁶³ cf
Yes Facility Sizing Meets F	low Control Standards?
YES Meets Requireme	nt for Post Development offsite flow less or equal to Pre-Development Flow? nt for Maximum of 18 Hour Drawdown Time?
Destination-Calculation Results	
	cfs Peak Facility Overflow Rate= 0.000 cfs
Total Runoff Volume to Stormwater Facility = 2	757 cf Total Overflow Volume= 0 cf
Max. Depth of Stormwater in Facility=	5.9 in
Drawdown Time=	0.2 hours
Diamagnii Time	10010
Yes Facility Sizing Meets I	estination Standards?
	nt of No Facility Flooding? nt for Maximum of 30 hour Drawdown Time?

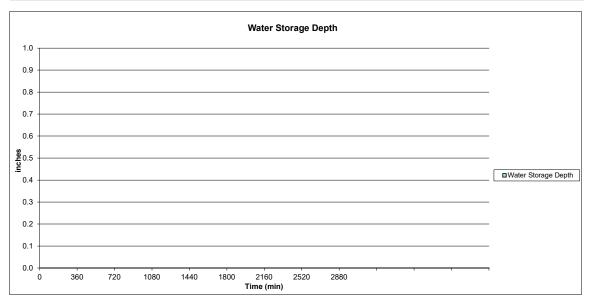
1/27/2021-12:49 PM 2

Project Name: Permit Number: Catchment ID: Three Mile Prairie NA 2C

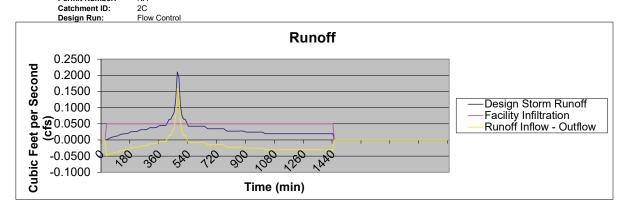
Design Run: Pollution Reduction

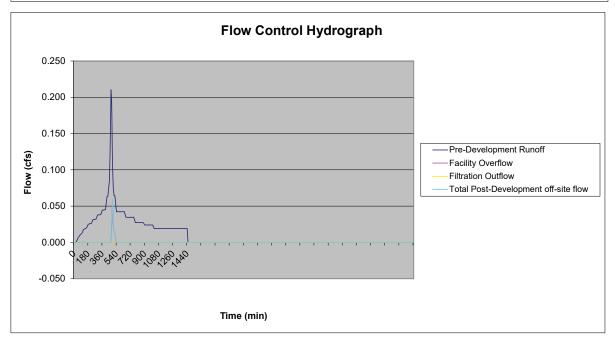


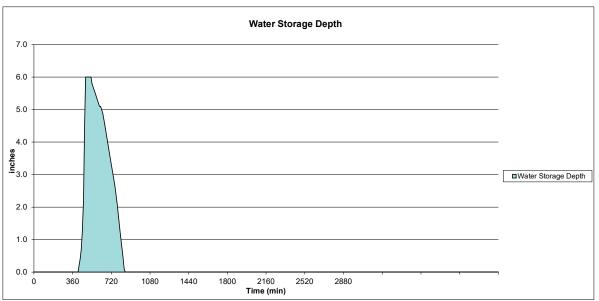




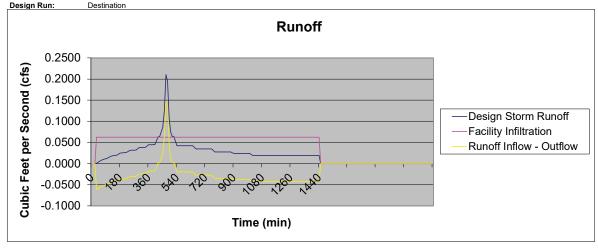
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2C

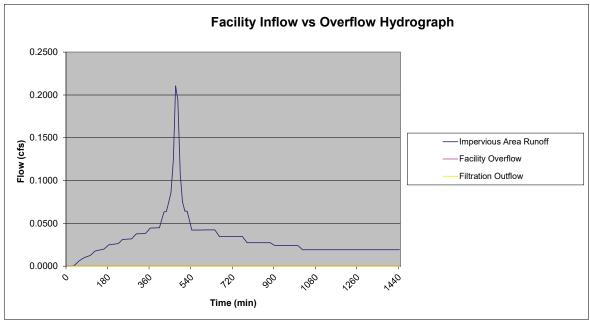


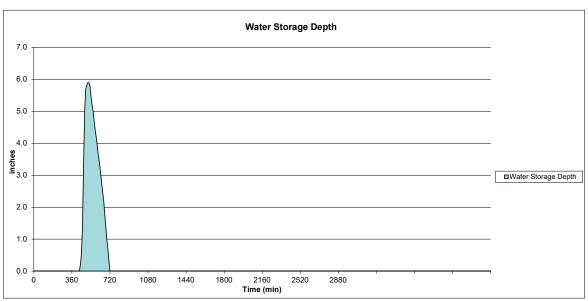




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2C
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene					
	Version 2.1					
Project Information						
Project Name: Project Address:	Three Mile Prairie 18-12-15-00-00200 Florence, OR		D Permit Numl Catchment I			
Designer: Company:	Clint Beecroft EGR & Associates					
Instructions: 1. Complete this form for 2. Provide a distinctive C calculations with the fa 3. The maximum drainag 4.For infiltration facilities	each drainage catch atchment ID for each acility. ge catchment to be m in Class A or B soils maximum soil infiltrat	facility coordinated with odeled per the Presump	hat is to be sized per the Pret the site basin map to correlative Approach is 1 acre (43,50 ing has been perfromed use a psoil/growing medium.	te the appropriate		
Pollution Reduction Flow Conti	on (PR) Yes rol (FC) Yes		dards requirements for this fa			
Site Data-Post Develop	ment					
Total Square Footage	pervious Area CN=	8037 98 8037 8ft 98	Total Square Footag	ervious Area CN=	85	
Site Data-Pre Developm	nent (Data in th	is section is only used	if Flow Control is required)			
Pre	e-Development CN=	98	Time of Concentration P	re-Development=	5 m	in
Soil Data						
	oil Infiltration Rate= oil Infiltration Rate=	10 in/hr (See No 4 in/hr	·	stination Design= il Infiltration Rate		/hr
Design Storms Used Fo	or Calculations					
Requirement Pollution Reduction Flow Control Destination	Rainfall Depth 0.8 inches 5.1 inches 5.1 inches	Design Storm Water Quality Flood Control Flood Control				
Facility Data						
Fa Max. I in Stori	Surface Width= Surface Length= acility Side Slopes= Ponding Depth mwater Facility=	4.2 ft 150 to 1	Facility S Faci Facility B	lity Surface Area= urface Perimeter= lity Bottom Area= ottom Perimeter= Basin Volume=	308.4 ft 630 sc 308 ft 315.0 cf	qft
Denth of Grow	ing Medium (Soil)=	18 in	Ratio of Facility Area to	mnervious Area=	0.078	

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Pollution Reduction-Calculation Results				
Peak Flow Rate to Stormwater Facility =	0.033 cfs	Peak Facility Overflow Rate= 0.000 cfs		
Total Runoff Volume to Stormwater				
Facility =	419 cf	Total Overflow Volume= 0 cf		
Max. Depth of Stormwater in Facility=	0.0 in			
Drawdown Time=	0.2 hours			
Yes Facility Sizing Meets Pollution Reduction Standards?				
YES Meets Requ	irement of No Facility I	Flooding?		
YES Meets Requ	irement for Maximum of	of 18 Hour Drawdown Time?		
Flow Control-Calculation Results				
Peak Flow Rate to Stormwater Facility =	0.246 cfs	Peak Facility Overflow Rate= 0.068 cfs		
Total Runoff Volume to Stormwater		,		
Facility =	3223 cf	Total Overflow Volume= 97 cf		
		Peak Off-Site Flow Rate		
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs		
Drawdown Time=	0.2 hours			
Pro Dovolonment Pu	unoff Data			
Pre-Development Runoff Data Peak Flow Rate = 0.246 cfs				
Total Runoff Volume =	3230 cf			
	0200			
Yes Facility Sizing Meets Flow Control Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?				
Destination-Calculation Results				
Peak Flow Rate to Stormwater Facility =	0.246 cfs	Peak Facility Overflow Rate= 0.000 cfs		
Total Runoff Volume to Stormwater	0000 (7.10 7 71		
Facility =	3223 cf 5.9 in	Total Overflow Volume= 0 cf		
Max. Depth of Stormwater in Facility= Drawdown Time=	0.2 hours			
Diawdown Time-L	0.2 Hours			
Yes Facility Sizing Meets Destination Standards?				
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?				

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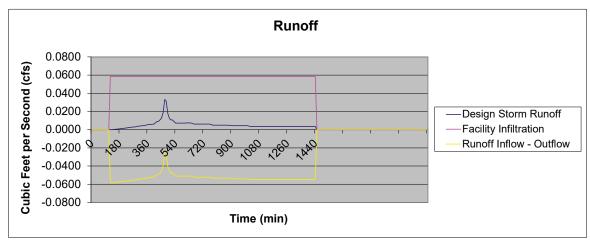
Project Name: Permit Number: Catchment ID:

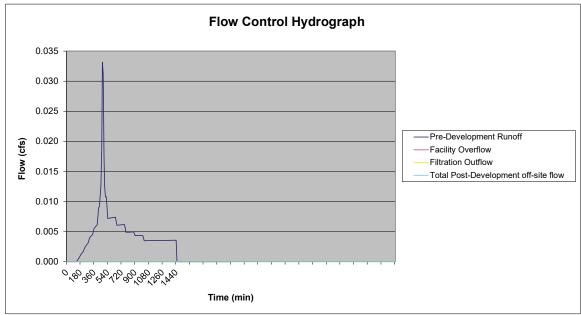
Design Run:

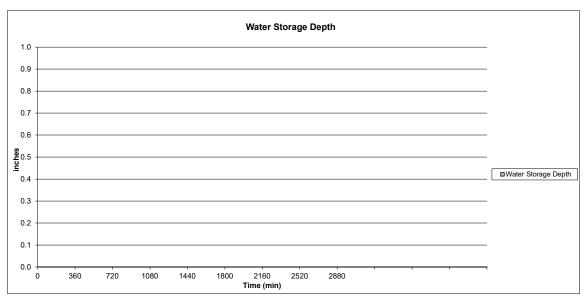
Three Mile Prairie

NA 2D

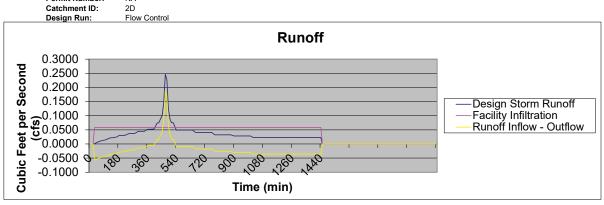
Pollution Reduction

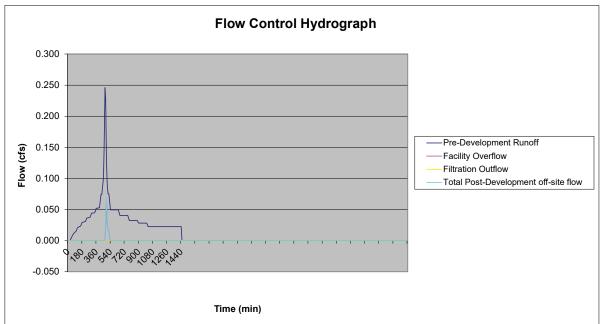


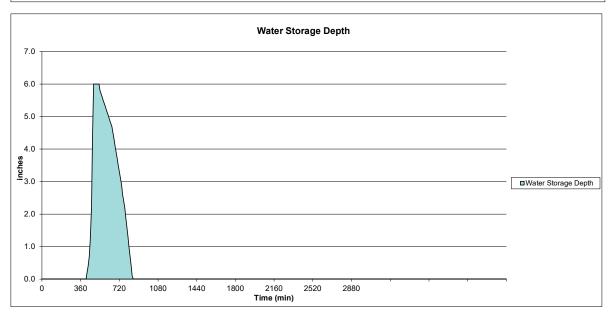




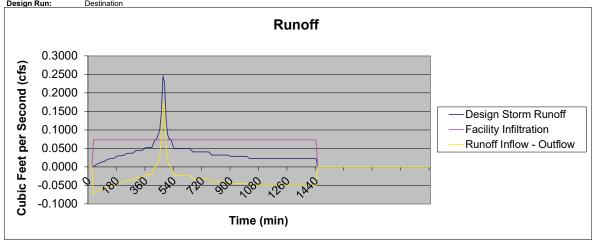
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2D

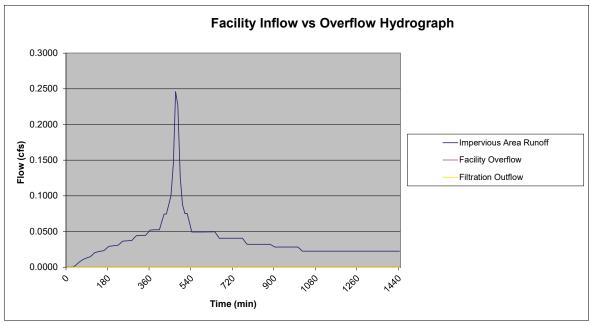


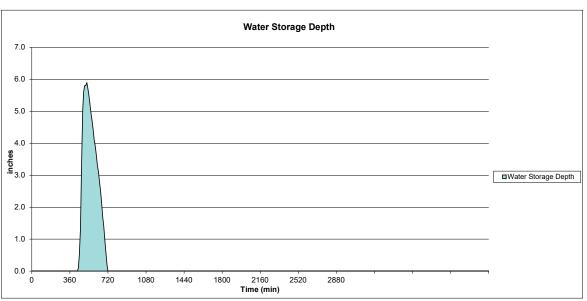




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2D
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1				
Project Information	Version 2.1				
Project Name:	Three Mile Prairie	Date: 12/30/2020			
Project Address:	18-12-15-00-00200	Permit Number: NA			
1 10,000 / 100.0001	Florence, OR	Catchment ID: 2E			
Designer:	Clint Beecroft	outsimism is:			
Company:	EGR & Associates				
, ,					
Instructions:					
1. Complete this form fo	r each drainage catchment in the project sit	te that is to be sized per the Presumptive Approach.			
Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.					
3. The maximum draina	ge catchment to be modeled per the Presur	mptive Approach is 1 acre (43,560 SF)			
4.For infiltration facilities	in Class A or B soils where no infiltration to	esting has been perfromed use an infiltration rate of 0.5 in/hr.			
For all facilities use a	maximum soil infiltration rate of 2.5 in/hr for	r topsoil/growing medium.			
Design Requirements					
Choose "Yes" from the	dropdown boxes below next to the design st	andards requirements for this facility.			
Pollution Reducti	ion (PR) Yes				
Flow Cont					
Destinati	`				
Destinati	An inilitration facility must	be chosen as the facility type to meet destination requirements			
Site Data-Post Develor	oment				
Total Square Footag	ge Impervious Area= 2594 sqft	Total Square Footage Pervious Area= 0 sqft			
-	npervious Area CN= 98	Pervious Area CN= 85			
· · · · · · · · · · · · · · · · · · ·	ipervious Area CN-	reivious Alea Oit-			
Total Square Footag	e of Drainage Area= 2594 sft	Time of Concentration Post Development= 5 min			
	ighted Average CN= 98	Time of consonituation is consoprious.			
Site Data-Pre Develop		ed if Flow Control is required)			
	e-Development CN= 98	Time of Concentration Pre-Development= 5 min			
Soil Data					
	in/hr (See	· · · · · · · · · · · · · · · · · · ·			
Design Soil Infiltration Rate 4 in/hr Soil Infiltration Rate					
Design Storms Used F	or Calculations				
Requirement	Rainfall Depth Design Storm				
Pollution Reduction	0.8 inches Water Quality				
Flow Control	5.1 inches Flood Control				
Destination	5.1 inches Flood Control				
Facility Data					
	Facility Type= Infiltration Stormwa	ter Planter Facility Surface Area= 205.8 sqft			
	Surface Width= 4.2 ft	Facility Surface Perimeter= 106.4 ft			
		Facility Bottom Area 206 sqft			
Facility Side Slopes 0 to 1 Facility Bottom Perimeter 106 ft					
Max. Ponding Depth					
in Stormwater Facility= 6 in Basin Volume= 102.9 cf					
Depth of Grov	wing Medium (Soil)= 18 in	Ratio of Facility Area to Impervious Area= 0.079			

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Pollution Reduction-Calculation Results				
Peak Flow Rate to Stormwater Facility =	0.011 cfs	Peak Facility Overflow Rate= 0.000 cfs		
Total Runoff Volume to Stormwater				
Facility =	135 cf	Total Overflow Volume= 0 cf		
Max. Depth of Stormwater in Facility=	0.0 in			
Drawdown Time=	0.2 hours			
Yes Facility Sizing Meets Pollution Reduction Standards?				
YES Meets Require	rement of No Facility Flooding?			
YES Meets Require	rement for Maximum of 18 Hour D	Orawdown Time?		
Flow Control-Calculation Results				
Peak Flow Rate to Stormwater Facility =	0.079 cfs	Peak Facility Overflow Rate= 0.022 cfs		
Total Runoff Volume to Stormwater		,		
Facility =	1040 cf	Total Overflow Volume= 28 cf		
		Peak Off-Site Flow Rate		
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs		
Drawdown Time=	0.2 hours			
Pre-Development Run				
Peak Flow Rate = Total Runoff Volume =	0.079 cfs			
Total Runon Volume =	1043 cf			
Yes Facility Sizing Meets Flow Control Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?				
Destination-Calculation Results				
Peak Flow Rate to Stormwater Facility =	0.079 cfs	Peak Facility Overflow Rate= 0.000 cfs		
Total Runoff Volume to Stormwater				
Facility =	1040 cf	Total Overflow Volume= 0 cf		
Max. Depth of Stormwater in Facility=	5.7 in			
Drawdown Time=	0.2 hours			
Yes Facility Sizing Meets Destination Standards?				
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?				

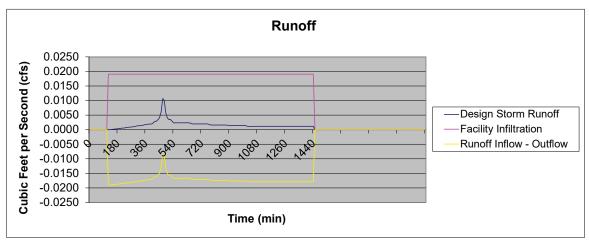
1/28/2021-5:46 AM 2

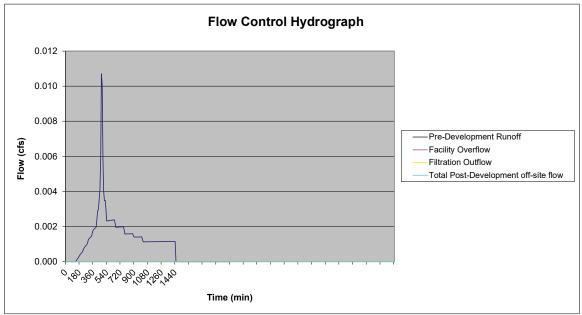
Project Name: Permit Number: Catchment ID:

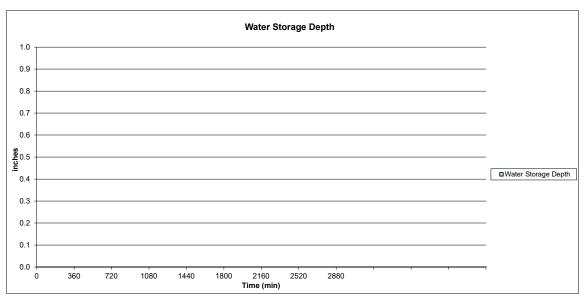
NA 2E Pollution Reduction

Three Mile Prairie

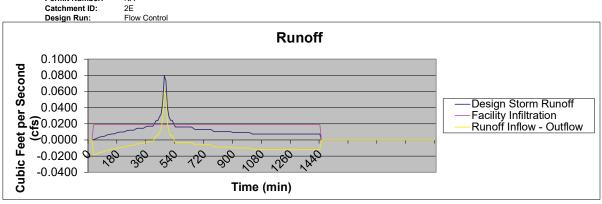
Design Run: Pollution Reduction

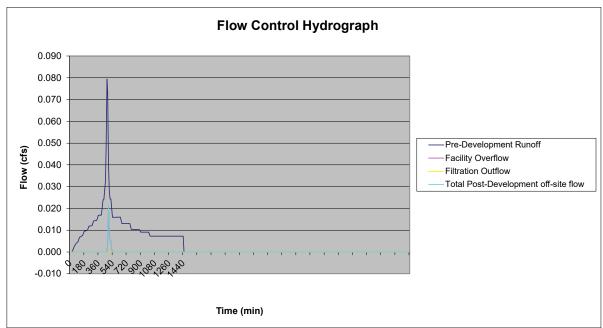


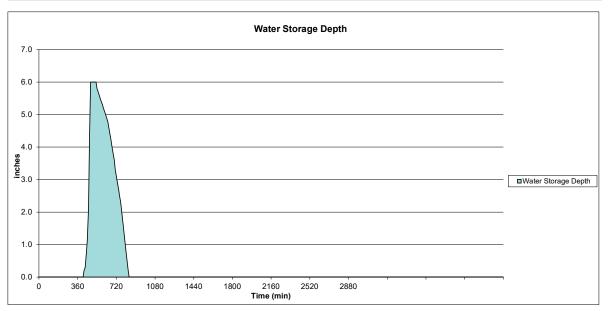




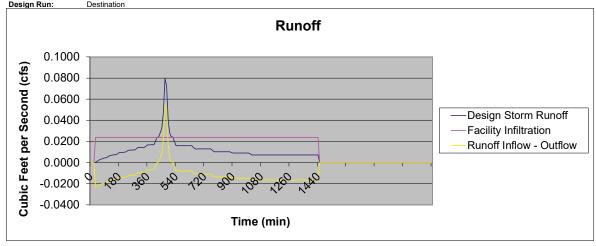
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2E

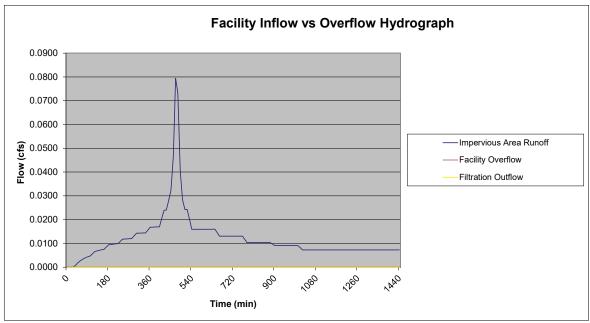


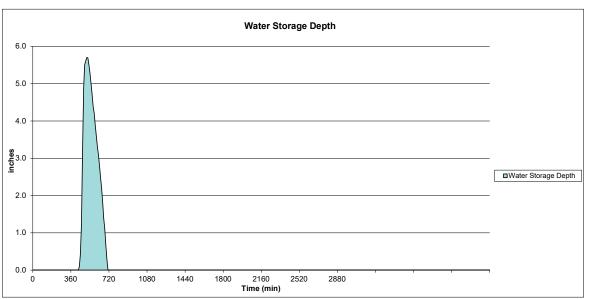




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2E
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Oity of Lageric					
	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie		Date:	12/30/2020		
Project Address:	18-12-15-00-00200		Permit Number:	NA		
.,	Florence, OR		Catchment ID:			
Designer:	Clint Beecroft			_		
Company:	EGR & Associates					
Instructions: 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes						
Flow Control Destination Site Data-Post Develop	on (DT) Yes	*An infiltration facility must be chosen a	s the facility type to meet destinat	ion requirements		
Site Data-Post Develop	inent					
Total Square Footage Impervious Area = 2601 sqft Impervious Area CN = 98 Total Square Footage Pervious Area = 0 sqft Pervious Area CN = 85 Total Square Footage of Drainage Area = 2601 sft Time of Concentration Post Development = 5 min Weighted Average CN = 98						
Site Data-Pre Developn	nent (Data in th	is section is only used if Flov	v Control is required)			
Pre	e-Development CN=	98 Tin	ne of Concentration Pre-I	Development=	5 min	
Soil Data						
	oil Infiltration Rate= oil Infiltration Rate=	10 in/hr (See Note 4) 4 in/hr		ation Design= filtration Rate	5 in/hr	
Design Storms Used Fo	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction	0.8 inches	Water Quality				
Flow Control	5.1 inches	Flood Control				
Destination	5.1 inches	Flood Control				
	J. I JIIICHES	r lood Collitor				
Facility Data						
	Facility Type=	Infiltration Stormwater Plant	er Facility	Surface Area=	205.8 sqft	
	Surface Width=	4.2 ft	Facility Surfa	ce Perimeter=	106.4 ft	
	Surface Length=	49 ft	Facility	Bottom Area=	206 sqft	
Fa	acility Side Slopes=	0 to 1		om Perimeter=	106 ft	
	Ponding Depth		-			
	mwater Facility=	6 in	В	asin Volume=	102.9 cf	

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Ratio of Facility Area to Impervious Area=

0.079

18 in

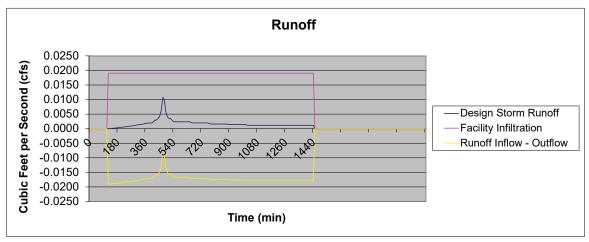
Depth of Growing Medium (Soil)=

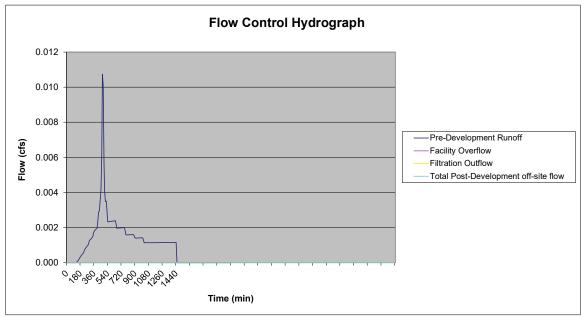
Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.011 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	136 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Meet	s Pollution Reduction Star	ndards?			
YES Meets Require	ment of No Facility Flooding?				
YES Meets Require	ment for Maximum of 18 Hour D	Prawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.080 cfs	Peak Facility Overflow Rate= 0.022 cfs			
Total Runoff Volume to Stormwater		, and the second			
Facility =	1043 cf	Total Overflow Volume= 29 cf			
		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Pre-Development Runo	off Data				
Peak Flow Rate =	0.080 cfs				
Total Runoff Volume =	1045 cf				
	10.10				
Yes Facility Sizing Meet	s Flow Control Standards?	•			
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility = Total Runoff Volume to Stormwater	0.080 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Facility =	1043 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	5.7 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Meets Destination Standards?					
	ment of No Facility Flooding? ment for Maximum of 30 hour D	rawdown Time?			

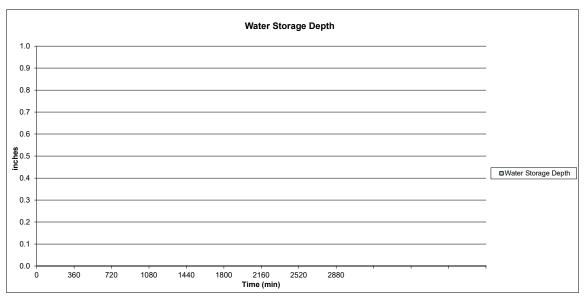
1/28/2021-5:48 AM 2

Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2F

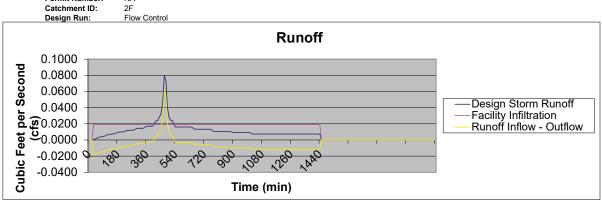
Design Run: Pollution Reduction

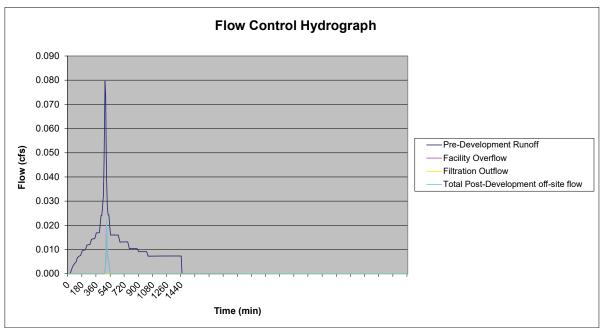


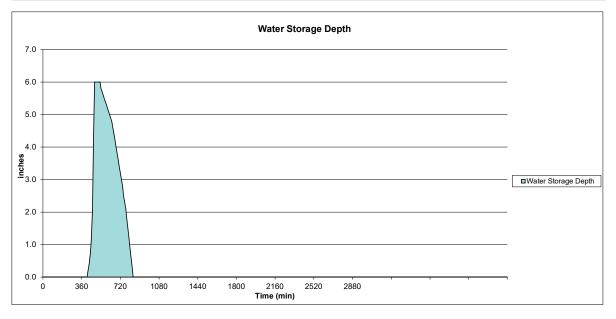




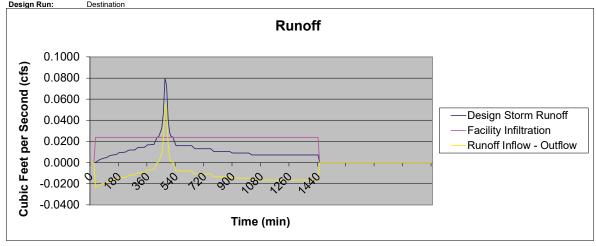
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2F

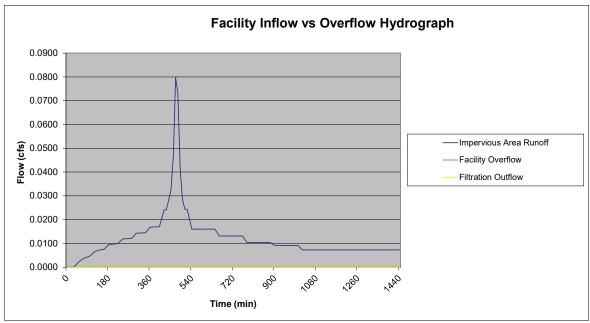


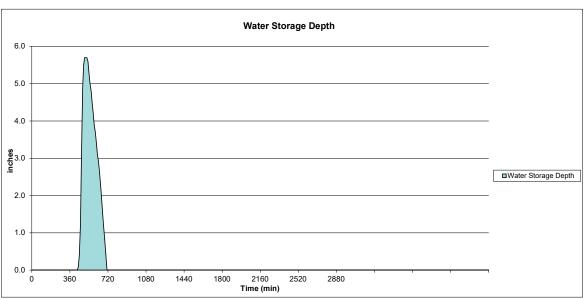




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2F
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie		Date:	12/30/2020	
Project Address:	18-12-15-00-00200		Permit Number:	NA	
	Florence, OR		Catchment ID:	<u>3A</u>	
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Instructions:					
Complete this form fo	r each drainage catch	ment in the project site that is t	o be sized per the Presum	ptive Approach.	
·	•	facility coordinated with the sit	•		
calculations with the f		,	·		
3. The maximum drainag	ge catchment to be mo	odeled per the Presumptive Ap	proach is 1 acre (43,560 S	ŝF)	
4.For infiltration facilities	in Class A or B soils	where no infiltration testing has	been perfromed use an ir	nfiltration rate of 0.5	in/hr.
For all facilities use a	maximum soil infiltrati	on rate of 2.5 in/hr for topsoil/g	rowing medium.		
Design Requirements:					
Ob 113/ 11 f 4b			and a second		
Choose "Yes" from the c	aropaown boxes below	next to the design standards r	equirements for this facility	у.	
Pollution Reducti	on (PR) Yes				
Flow Cont					
Destinati	` '	*An infiltration facility must be chosen a	s the facility type to meet destinat	tion requirements	
	(= 1)	,	, -/		
Site Data-Post Develop	oment				
Total Square Footag	e Impervious Area=	1698 sqft	Total Square Footage P	ervious Area=	0 sqft
-	npervious Area CN=	98	-	ious Area CN=	85
			. •		
Total Square Footag	e of Drainage Area=	1698 sft Time	of Concentration Post I	Development=	5 min
	ighted Average CN=	98		· <u>-</u>	
Site Data-Pre Developr	nent (Data in th	is section is only used if Flow	v Control is required)		
Pro	e-Development CN=	98 Tim	ne of Concentration Pre-I	Development=	5 min
Soil Data					
	oil Infiltration Rate=	10 in/hr (See Note 4)	Destin	ation Design=	5 in/hr
	oil Infiltration Rate=	4 in/hr		nfiltration Rate	<u> </u>
Design Storms Used F					
Requirement		Design Storm			
Pollution Reduction		Water Quality			
Flow Control		Flood Control			
Destination	1 1	Flood Control			
Facility Data					
racility Data	F	In filtration Ottomorphism Disast	F104	Ourford Annual	447
		Infiltration Stormwater Plant		Surface Area=	117 sqft
	Surface Width= Surface Length=	11.7 ft 10 ft	-	ce Perimeter=	43.4 ft
_	acility Side Slopes=	0 to 1		Bottom Area= om Perimeter=	117 sqft 43 ft
	Ponding Depth	0 10 1	racinty Botto	/// Fermieter-	45 11
	mwater Facility=	8 in	В	Basin Volume=	78.0 cf
	vina Medium (Soil)=		io of Facility Area to Imp		0.069

1/28/2021-5:51 AM

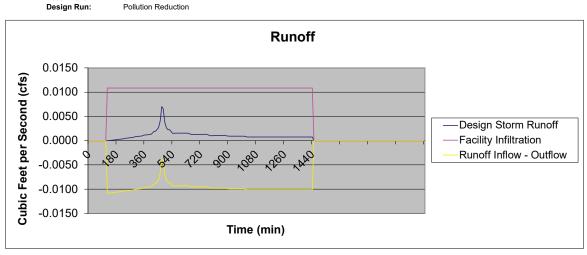
Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.007 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	89 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Me	eets Pollution Reduct	ion Standards?			
YES Meets Requ	irement of No Facility Flo	oding?			
YES Meets Requ	irement for Maximum of	18 Hour Drawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.015 cfs			
Total Runoff Volume to Stormwater					
Facility =	681 cf	Total Overflow Volume= 21 cf			
l I		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	8.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Pre-Development Ru	inoff Data				
Peak Flow Rate =	0.052 cfs				
Total Runoff Volume =	682 cf				
Yes Facility Sizing Me	eets Flow Control Sta	ndards?			
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater Facility =	681 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	7.9 in	Total Overnon Volume			
Drawdown Time=	0.2 hours				
Yes Facility Sizing Meets Destination Standards?					
	irement of No Facility Flo irement for Maximum of 3	oding? 30 hour Drawdown Time?			

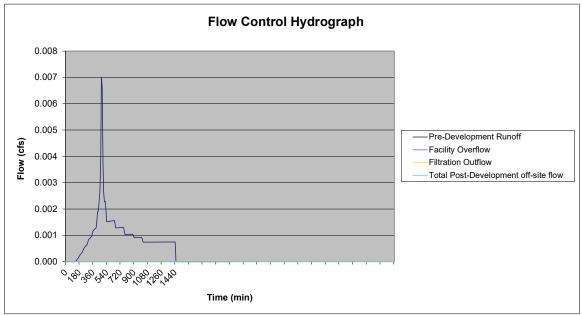
1/28/2021-5:51 AM 2

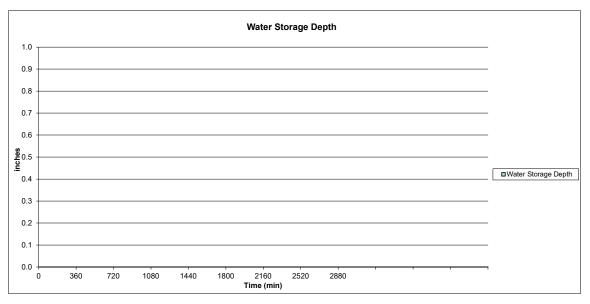
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 3A

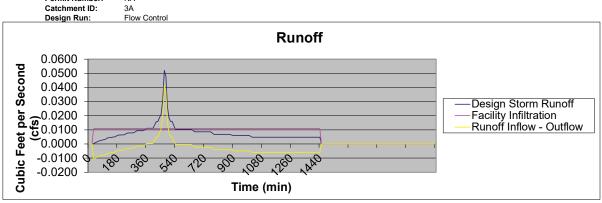
Pollution Reduction

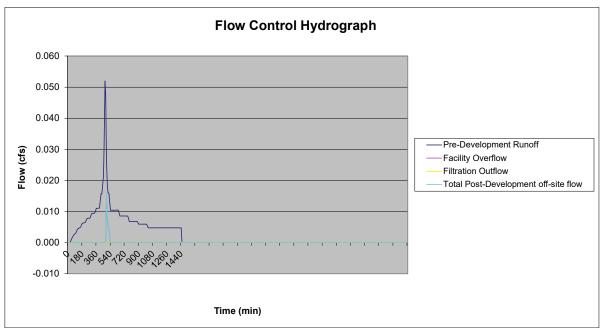


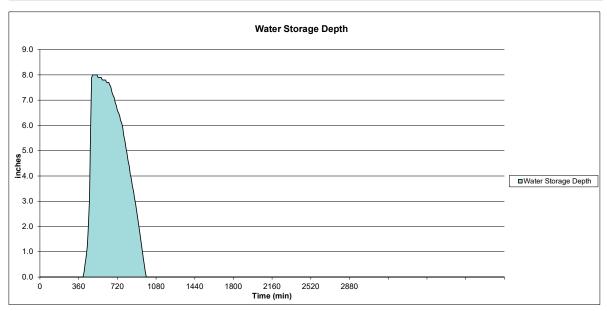




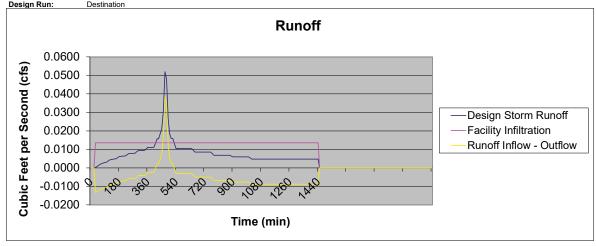
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3A

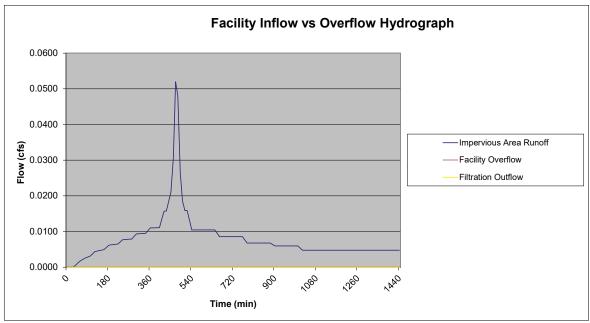


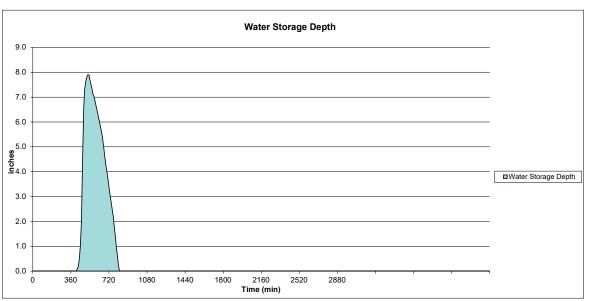




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3A
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie	Date: 12/30/2020				
Project Address:	18-12-15-00-00200	Permit Number: NA				
Daginnari	Florence, OR	Catchment ID: 3B				
Designer:	Clint Beecroft					
Company:	EGR & Associates					
Instructions:						
1. Complete this form for	r each drainage catchment in the r	project site that is to be sized per the Presumptive Approach.				
	- · · · · · · · · · · · · · · · · · · ·	dinated with the site basin map to correlate the appropriate				
calculations with the fa	-					
3. The maximum drainag	ge catchment to be modeled per th	ne Presumptive Approach is 1 acre (43,560 SF)				
4.For infiltration facilities	in Class A or B soils where no inf	iltration testing has been perfromed use an infiltration rate of 0.5 in/hr.				
For all facilities use a	maximum soil infiltration rate of 2.	5 in/hr for topsoil/growing medium.				
Design Requirements:						
Choose "Yes" from the d	ropdown boxes below next to the	design standards requirements for this facility.				
Pollution Reduction	on (PR) Yes					
Flow Cont						
Destinati						
Destillati	"An inilitration is	acility must be chosen as the facility type to meet destination requirements				
Site Data-Post Develop	ment					
Total Square Footag	e Impervious Area= 1695	sqft Total Square Footage Pervious Area= 0 sqft				
-	npervious Area CN= 98	Pervious Area CN= 85				
	ipervious Area Cit-	reivious Alea ON-				
Total Square Footage	e of Drainage Area= 1695	sft Time of Concentration Post Development= 5 min				
-	ghted Average CN= 98					
Site Data-Pre Developn	nent (Data in this section is	s only used if Flow Control is required)				
	e-Development CN=	Time of Concentration Pre-Development= 5 min				
	-Development CN-	Time of Concentration Fre-Development-				
Soil Data						
		in/hr (See Note 4) Destination Design= in/hr Soil Infiltration Pote				
		in/hr Soil Infiltration Rate				
Design Storms Used Fo	or Calculations					
Requirement	Rainfall Depth Design Sto	rm				
Pollution Reduction	0.8 inches Water Quali	ty				
Flow Control	5.1 inches Flood Contro	ol				
Destination	5.1 inches Flood Contro	ol				
Facility Data						
	Facility Type= Infiltration	Stormwater Planter Facility Surface Area= 117 sqft				
	Surface Width= 11.7					
	Surface Length= 10					
Fa	Facility Side Slopes 0 to 1 Facility Bottom Perimeter 43 ft					
Max. Ponding Depth						
	mwater Facility= 8					
Depth of Grow	ving Medium (Soil)= 18	in Ratio of Facility Area to Impervious Area= 0.069				

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Pollution Reduction-Calculation Results								
Peak Flow Rate to Stormwater Facility =	0.007 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater								
Facility =	88 cf	Total Overflow Volume= 0 cf						
Max. Depth of Stormwater in Facility=	0.0 in							
Drawdown Time=	0.2 hours							
Yes Facility Sizing Me	Yes Facility Sizing Meets Pollution Reduction Standards?							
YES Meets Requ	irement of No Facility Flo	oding?						
YES Meets Requ	irement for Maximum of	18 Hour Drawdown Time?						
Flow Control-Calculation Results								
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.015 cfs						
Total Runoff Volume to Stormwater								
Facility =	680 cf	Total Overflow Volume= 21 cf						
		Peak Off-Site Flow Rate						
Max. Depth of Stormwater in Facility=	8.0 in	Filtration Facility Underdrain= N\A cfs						
Drawdown Time=	0.2 hours							
Pre-Development Ru	noff Data							
Peak Flow Rate =	0.052 cfs							
Total Runoff Volume =	681 cf							
Yes Facility Sizing Me	ets Flow Control Sta	ndards?						
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?								
Destination-Calculation Results								
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater Facility =	680 cf	Total Overflow Volume= 0 cf						
Max. Depth of Stormwater in Facility=	7.9 in	Total Overnow Volume-						
Drawdown Time=	0.2 hours							
5.2.10410								
Yes Facility Sizing Meets Destination Standards?								
	irement of No Facility Flo irement for Maximum of	ooding? 30 hour Drawdown Time?						

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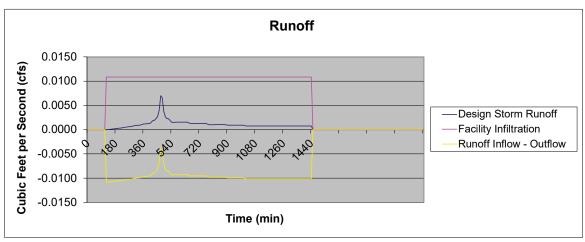
Project Name: Permit Number: Catchment ID:

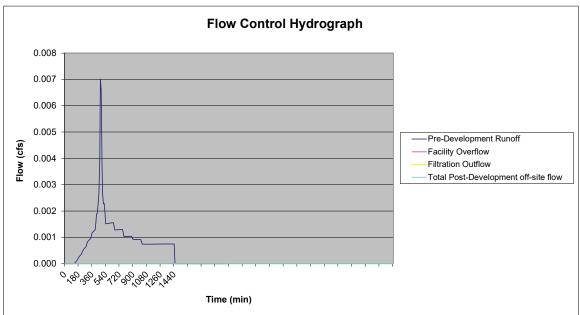
Design Run:

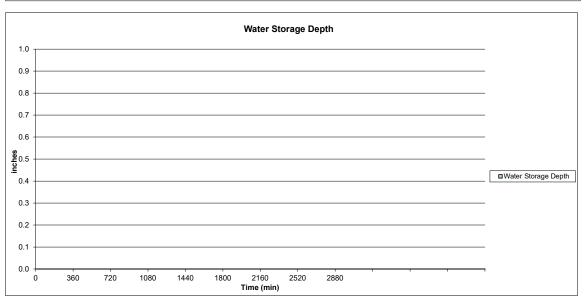
Three Mile Prairie

NA 3B

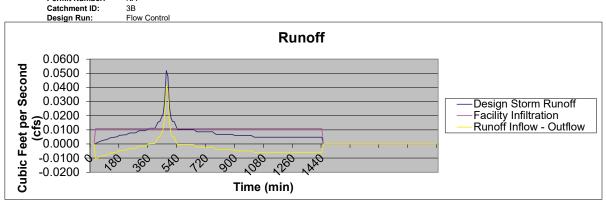
Pollution Reduction

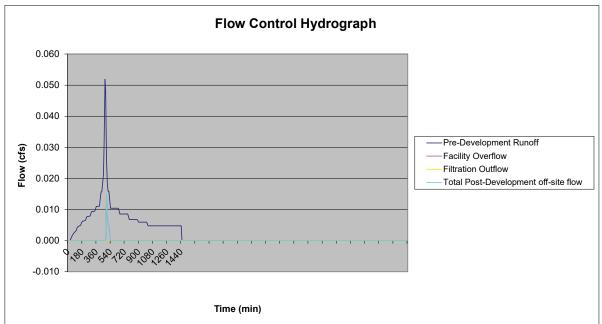


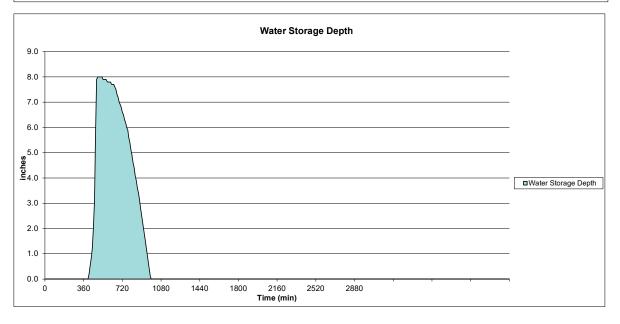




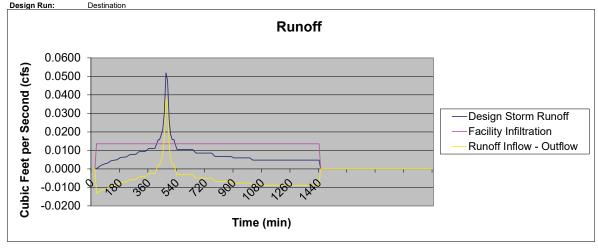
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3B

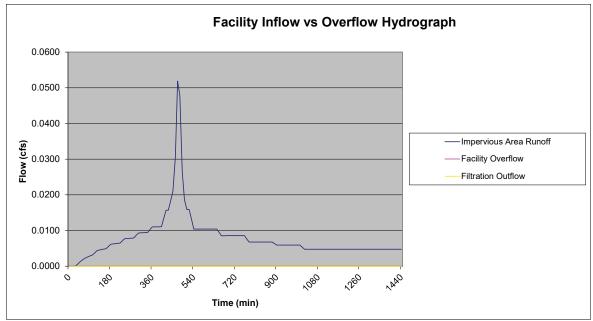


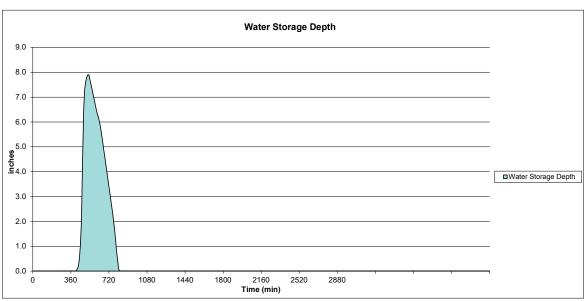




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3B
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene			
	Version 2.1			
Project Information				
Project Name:	Three Mile Prairie		Date: <u>12/30/2020</u>	
Project Address:	18-12-15-00-00200		Permit Number: NA	
	Florence, OR		Catchment ID: 3C	
Designer:	Clint Beecroft			
Company:	EGR & Associates			
Instructions:				
1. Complete this form fo	or each drainage catch	ment in the project site that is to be	e sized per the Presumptive Approac	h.
	_		asin map to correlate the appropriate	
calculations with the f		•		
3. The maximum draina	ge catchment to be m	odeled per the Presumptive Approx	ach is 1 acre (43,560 SF)	
	-		en perfromed use an infiltration rate o	of 0.5 in/hr.
For all facilities use a	maximum soil infiltrat	ion rate of 2.5 in/hr for topsoil/grow	ing medium.	
Design Requirements	:			
O				
Choose "Yes" from the	dropdown boxes belov	v next to the design standards requ	irements for this facility.	
Pollution Reducti	ion (PR) Yes	1		
Flow Cont				
	` '			
Destinat	ion (DT) Yes	*An infiltration facility must be chosen as the	e facility type to meet destination requirements	
Site Data-Post Develor	oment			
Total Square Footag	e Impervious Area=	2534 sqft To	tal Square Footage Pervious Area	= 0 sqft
-	npervious Area CN=	98	Pervious Area CN	
-				
Total Square Footag	e of Drainage Area=	2534 sft Time of	Concentration Post Development	= 5 min
-	ighted Average CN=	98	•	
Site Data-Pre Develop	ment (Data in th	is section is only used if Flow C	ontrol is required)	
Pr	e-Development CN=		of Concentration Pre-Development	= 5 min
Soil Data				
		in them (Q. Al.). (D.		<u> </u>
	oil Infiltration Rate=	10 in/hr (See Note 4)	Destination Designation Designation	
	oil Infiltration Rate=	4 in/hr	Soil Infiltration Rate	
Design Storms Used F	or Calculations			
Requirement	Rainfall Depth	Design Storm		
Pollution Reduction	0.8 inches	Water Quality		
Flow Control	5.1 inches	Flood Control		
Destination	5.1 inches	Flood Control		
Facility Data				
	Facility Type=	Infiltration Stormwater Planter	Facility Surface Area	254.1 sqft
	Surface Width=	7.7 ft	Facility Surface Perimeter	
	Surface Length=	33 ft	Facility Bottom Area	
Facility Side Slopes 3 to 1 Facility Bottom Perimeter 69 ft				
	Ponding Depth		•	
	rmwater Facility=	6 in	Basin Volume	= 101.0 cf

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Ratio of Facility Area to Impervious Area=

0.100

Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater					
Facility = 132 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility= 0.0 in					
Drawdown Time= 0.2 hours					
Yes Facility Sizing Meets Pollution Reduction	Standards?				
YES Meets Requirement of No Facility Flooding	ng?				
YES Meets Requirement for Maximum of 18 H	lour Drawdown Time?				
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs				
Total Runoff Volume to Stormwater	5020				
Facility = 1016 cf	Total Overflow Volume= 25 cf				
	Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility= 6.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time= 0.2 hours					
Pre-Development Runoff Data Peak Flow Rate = 0.078 cfs Total Runoff Volume = 1018 cf					
Yes Facility Sizing Meets Flow Control Standa	ards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater	Total Overflow Values -				
Facility = 1016 cf Max. Depth of Stormwater in Facility= 5.8 in	Total Overflow Volume= 0 cf				
Drawdown Time= 0.2 hours					
Diawdowii Tillie- 0.2 Hours					
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding YES Meets Requirement for Maximum of 30 h					

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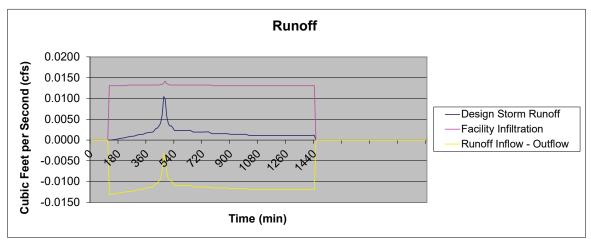
Project Name: Permit Number: Catchment ID:

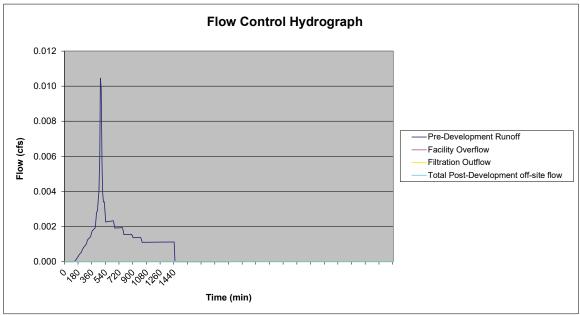
Design Run:

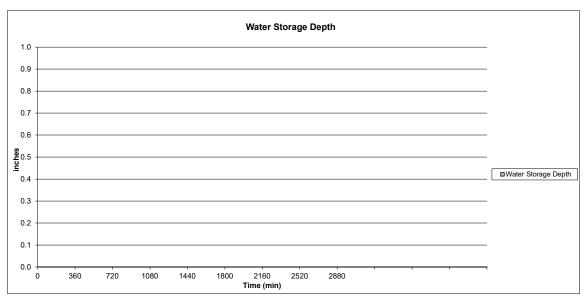
Three Mile Prairie

NA 3C

Pollution Reduction

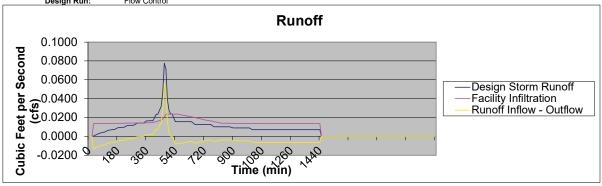


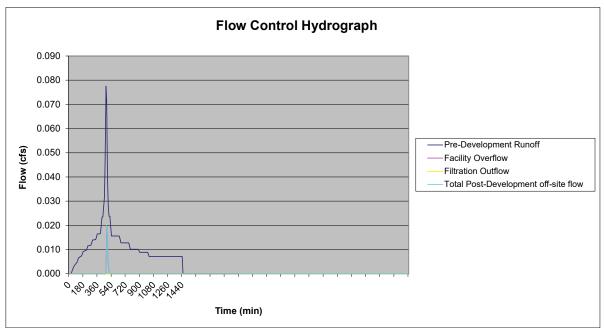


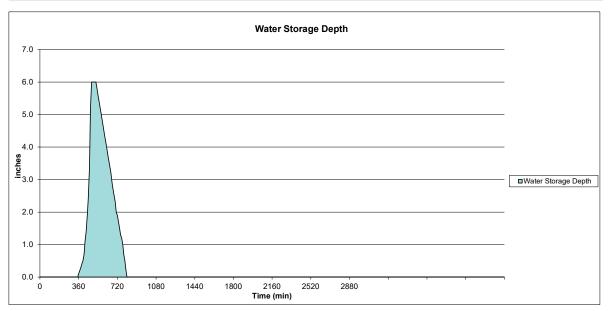


Project Name: Three Mile Prairie Permit Number:

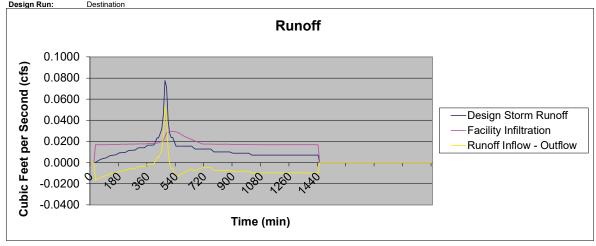
NA 3C Catchment ID: Design Run: Flow Control

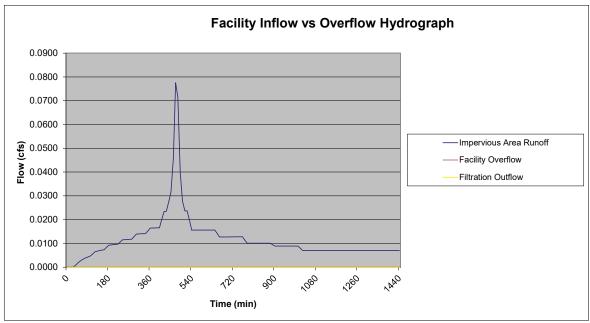


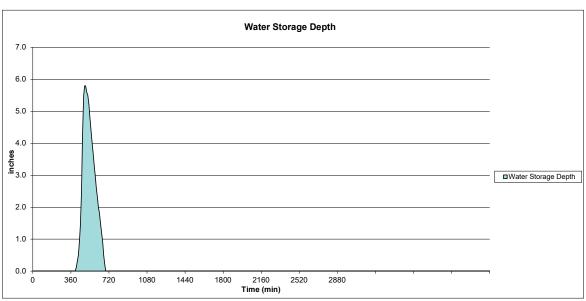




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3C
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

Project Information Project Name: Intree Mile Prairie Project Address: 18-12-15-09-08200 Project Address: 18-12-15-09-08200 Project Address: 18-12-15-09-08200 Pornit Number: NA Designer: Clint Beerroft Company: EGR & Associates Instructions: 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the sate basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For infiltration facilities in Class A or B soils where no infiltration testing has been performed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsol/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Flow Control (FC) Fes Destination (DT) Total Square Footage Impervious Area Weighted Average CNe 98 Total Square Footage Impervious Area Weighted Average CNe 98 Time of Concentration Post Development Total Square Footage of Drainage Area Weighted Average CNe 98 Time of Concentration Post Development Tested Soil Infiltration Rate- Design Still Infiltration Rate- Design Still Infiltration Rate- Design Storms Used For Calculations Requirement Rainfall Depth Design Storm Pre-Development Rainfall Depth Design Storm Pacility Type- Infiltration Stormwater Planter Facility Surface Area 254.1 sqft Facility Surface Perimeter- 89 Facility Sturface Area 254.1 sqft Facility Bottom Area Facil		,g						
Project Address: 18-12-15-00-00200 Permit Number: NA Catchment ID: 3D Project Address: 18-12-15-00-00200 Permit Number: NA Catchment ID: 3D Besigner: Clint Beecreft Company: EGR & Associates Instructions: 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID: for each facility coordinated with the site basin may to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoli/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes Flow Control (FC) Yes Permit Number Yes Yes		Version 2.1						
Project Address: 18-12-15-00-00200 Permit Number MA	Project Information							
Company: Elorence, OR Catchment ID: 3D	Project Name:	Three Mile Prairie						
Designer: Climt Beecroft EQR & Associates 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For infiltration facilities in Class A or B soils where no infiltration testing has been performed use an infiltration rate of 0,5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes Flow Control (FC) Yes Destination (DT) Yes An infiltration facility must be chosen as the facility type to meet destination requirements Site Data-Post Development Total Square Footage Impervious Area = 2534 sqft Total Square Footage Pervious Area = 0 sqft Impervious Area = 2534 sqft Time of Concentration Post Development = 5 min Weighted Average CN= 98 Total Square Footage of Drainage Area = 2534 sqft Time of Concentration Post Development = 5 min Weighted Average CN= 98 Trace Development (Data in this section is only used if Flow Control is required) Pre-Development CN= 98 Time of Concentration Pre-Development 5 min Soil Infiltration Rate 4 in/hr Soil Infiltration Rate 5 in/hr Soil Infiltration Rate 4 in/hr Soil Infiltration Rate 5 in/hr Soil Rate 5 in/hr Soil R	Project Address:	18-12-15-00-00200		Permi	t Number: <u>NA</u>			
Instructions: 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For inflitration facilities in Class A or B soils where no inflitration testing has been perfromed use an inflitration rate of 0.5 in/hr. For all facilities use a maximum soil inflitration rate of 2.5 in/hr for topsoil/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes Flow Control (FC) Yes Destination (DT) Yes An inflitration facility must be chosen as the facility type to meet destination requirements Site Data-Post Development Total Square Footage Impervious Area CN= 98 Total Square Footage of Drainage Area= 2534 sqft Total Square Footage Pervious Area CN= 85 Total Square Footage of Drainage Area= 2534 sft Time of Concentration Post Development= 5 min Weighted Average CN= 98 Site Data-Pre Development (Data in this section is only used if Flow Control is required) Per-Development CN= 98 Time of Concentration Pre-Development= 5 min Soil Data Tested Soil Inflitration Rate= 10 in/hr (See Note 4) Destination Design= 5 in/hr Soil Inflitration Rate Design Storms Used For Calculations Requirement Rainfall Depth Storm Production Stormwater Planter Facility Surface Area 254.1 sqft Facility Surface Area 141 sqft Facility Bottom Area 141 sqft Facility Bottom Area 141 sqft Facility Bottom Perimeter 660 ft facility		Florence, OR		Catch	ment ID: 3D			
Instructions: 1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes Flow Control (FC) Yes Destination (DT) Yes An infiltration facility must be chosen as the facility type to meet destination requirements Site Data-Post Development Total Square Footage Impervious Area= 2534 sqft Total Square Footage Pervious Area= 0 sqft Impervious Area CN= 98 Total Square Footage of Drainage Area= 2534 stft Time of Concentration Post Development= 5 min Weighted Average CN= 98 Total Square Footage of Drainage Area= 2534 stft Time of Concentration Post Development= 5 min Weighted Average CN= 98 Trace Development (Data in this section is only used if Flow Control is required) Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min Soil Data Tested Soil Infiltration Rate= 10 in/hr (See Note 4) Destination Design= 5 in/hr Design Storms Used For Calculations Requirement Rainfall Depth Design Storm Pollution Reduction 0 s inches Water Quality Flow Control 5 s inches Flood Control Destination 5 s inches Flood Control Pollution Reduction 6 s inches Flood Control Facility Surface Perimeter= 81.4 ft Facility Surface Perimeter= 66 ft ft Facility Surface Perimeter= 66 ft ft Facility Surface Perimeter= 6	Designer:	Clint Beecroft						
1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach. 2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility. 3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF) 4. For infliration facilities in Class A or B soils where no infiltration testing has been performed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium. Design Requirements: Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Flow Control (FC) Yes Flow Control (FC) Yes Postination (DT) Total Square Footage Previous Area Impervious Area Impervious Area Impervious Area Impervious Area Impervious Area Weighted Average CN= 98 Time of Concentration Post Development= Total Square Footage of Drainage Area Weighted Average CN= 98 Time of Concentration Post Development= Facility Standard Destination Rate Design Stoll Infiltration Rate= Design Stolm Infiltration Rate= Design Stolm Infiltration Rate= Design Stolm Infiltration Rate= Posting Stoll Infiltration Rate= Design Stoll Infiltration Rate= Design Stoll Infiltration Rate= Facility Type= Infiltration Stormwater Planter Facility Surface Area= Facility Stold Solpes= Max. Ponding Depth Pre-Delibution Portion Per Development Performed Pacility Surface Perimeter= Facility Bottom Area= Facility Bottom Area= Facility Bottom Perimeter= 6 81 Facility Bottom Perimeter= 6 91 Facility Bottom Perimete	Company:	EGR & Associates						
Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility. Pollution Reduction (PR) Yes Flow Control (FC) Destination (DT) Yes obstination (DT) Yes the infiltration facility must be chosen as the facility type to meet destination requirements. Site Data-Post Development Total Square Footage Impervious Area 2534 sqft Pervious Area CN= 85 Total Square Footage of Drainage Area 2534 sfft Time of Concentration Post Development= 5 min Weighted Average CN= 98 Site Data-Pre Development (Data in this section is only used if Flow Control is required) Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min Soil Data Tested Soil Infiltration Rate= 10 Int/hr (See Note 4) Destination Design= 5 int/hr Soil Infiltration Rate Design Storms Used For Calculations Requirement Rainfall Depth Design Storm Pollution Reduction 0.8 inches Flood Control Destination 5.1 inches Flood Control Facility Type= Infiltration Stormwater Planter Facility Surface Area 254.1 sqft Facility Surface Perimeter= 81.4 ft Surface Length= 7.7 ft Facility Surface Perimeter= 81.4 ft Surface Length= 7.7 ft Facility Bottom Area 141 sqft Facility Bide Slopes= 3 to 1 Facility Bottom Area 141 sqft Facility Bottom Perimeter= 6.9 ft	1. Complete this form for 2. Provide a distinctive C calculations with the fa 3. The maximum drainag 4.For infiltration facilities For all facilities use a recommendation.	atchment ID for eac acility. e catchment to be r in Class A or B soils	h facility coordinated with the nodeled per the Presumptive s where no infiltration testing	Approach is 1 acre	correlate the appropriate e (43,560 SF) d use an infiltration rate of			
Pollution Reduction (PR) Flow Control (FC) Destination (DT) Yes -An infiltration facility must be chosen as the facility type to meet destination requirements Site Data-Post Development Total Square Footage Impervious Area= Impervious Area CN= 98 Site Data-Post Development Weighted Average CN= 98 Time of Concentration Post Development= 5 min Site Data-Pre Development (Data in this section is only used if Flow Control is required) Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min Soil Data Tested Soil Infiltration Rate= Design Soil Infiltration Rate= Design Storms Used For Calculations Requirement Rainfall Depth Design Storms Pollution Reduction 0.8 inches Water Quality Flow Control 5.1 inches Flood Control Destination 5.1 inches Flood Control Destination Facility Surface Length= Surface Width= Surface Length= Surface Length= Facility Side Slopes= Max. Ponding Depth Max.	Design Requirements:							
Total Square Footage Impervious Area = 2534 sqft Pervious Area CN = 98 Pervious Area CN = 85 Structure S	Pollution Reduction	Pollution Reduction (PR) Yes Flow Control (FC) Yes						
Total Square Footage of Drainage Area	Site Data-Post Develop	ment						
Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min	Total Square Footage Impervious Area = 2534 sqft Impervious Area CN = 98 Total Square Footage Pervious Area = 0 sqft Pervious Area CN = 85 Total Square Footage of Drainage Area = 2534 sft Time of Concentration Post Development = 5 min							
Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min	Site Data-Pre Developm	nent (Data in t	his section is only used if F	low Control is rec	quired)			
Tested Soil Infiltration Rate= 10 in/hr (See Note 4) Design Soil Infiltration Rate 1 in/hr Soil Infiltration Rate 5 in/hr So		•				5 min		
Design Storms Used For Calculations Requirement Rainfall Depth Design Storm	Soil Data							
Requirement Rainfall Depth Design Storm Pollution Reduction 0.8 inches Water Quality Flow Control 5.1 inches Flood Control Destination 5.1 inches Flood Control Facility Data Facility Type= Infiltration Stormwater Planter Surface Width= 7.7 ft Facility Surface Area= 254.1 sqft ft Facility Surface Perimeter= 81.4 ft Facility Side Slopes= Max. Ponding Depth Facility Storm Stormwater Planter Facility Surface Perimeter= 69 ft ft Facility Surface Perimeter= 69 ft ft Facility Bottom Perimeter= 69 ft ft ft ft Facility Bottom Perimeter= 69 ft ft ft ft ft Facility Bottom Perimeter= 69 ft				1				
Pollution Reduction 0.8 inches Water Quality Flow Control 5.1 inches Flood Control Destination 5.1 inches Flood Control Facility Data Facility Type	Design Storms Used Fo	or Calculations						
Pollution Reduction 0.8 inches Water Quality Flow Control 5.1 inches Flood Control Destination 5.1 inches Flood Control Facility Data Facility Type	Requirement	Rainfall Depth	Design Storm					
Flow Control Destination 5.1 inches Flood Control Facility Data Facility Type= Infiltration Stormwater Planter Surface Width= 7.7 ft Facility Surface Perimeter= 81.4 ft Surface Length= 33 ft Facility Bottom Area= 141 sqft Facility Side Slopes= 3 to 1 Facility Bottom Perimeter= 69 ft								
Facility Type= Infiltration Stormwater Planter Surface Width= 7.7 ft Facility Surface Perimeter= 81.4 ft Facility Side Slopes= 3 to 1 Facility Bottom Perimeter= 69 ft Max. Ponding Depth	Flow Control							
Facility Type Infiltration Stormwater Planter Facility Surface Area 254.1 sqft Surface Width	Destination	5.1 inches	Flood Control					
Facility Type Infiltration Stormwater Planter Facility Surface Area 254.1 sqft Surface Width	Facility Data							
	Fa Max. I	Surface Width= Surface Length= acility Side Slopes= Ponding Depth	7.7 ft 33 ft	Fac	cility Surface Perimeter= Facility Bottom Area= cility Bottom Perimeter=	81.4 ft 141 sqft 69 ft		

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Ratio of Facility Area to Impervious Area=

0.100

Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	132 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Mee	ets Pollution Reduction Stan	dards?			
YES Meets Requir	rement of No Facility Flooding?				
YES Meets Requir	rement for Maximum of 18 Hour D	rawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs			
Total Runoff Volume to Stormwater		,			
Facility =	1016 cf	Total Overflow Volume= 25 cf			
		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Pre-Development Run	off Data				
Peak Flow Rate =	0.078 cfs				
Total Runoff Volume =	1018 cf				
Yes Facility Sizing Mee	ets Flow Control Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater	1010	T. 1.0 . 11 . 11			
Facility =	1016 cf 5.8 in	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility= Drawdown Time=	0.2 hours				
Diawdowii Tillie- 0.2 Hodis					
Yes Facility Sizing Meets Destination Standards?					
	rement of No Facility Flooding? rement for Maximum of 30 hour D	rawdown Time?			
					

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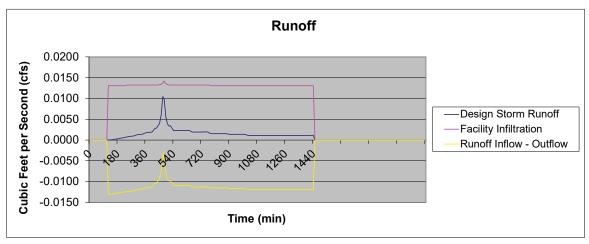
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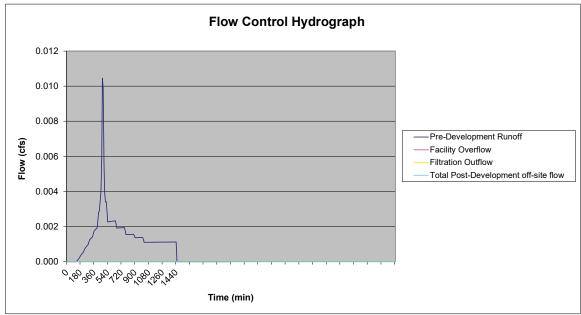
Design Run:

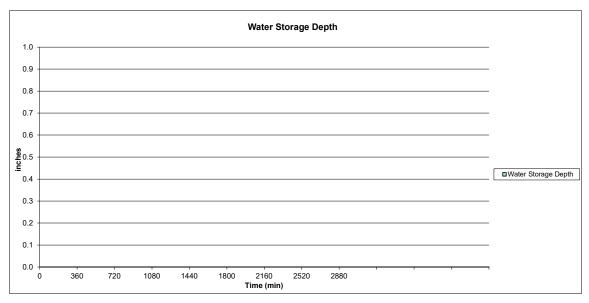
Three Mile Prairie

NA 3D

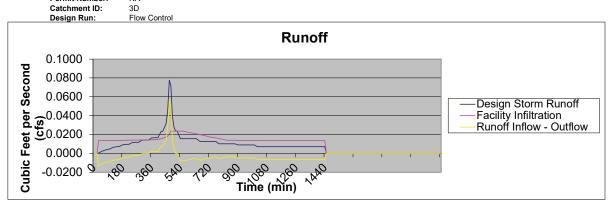
Pollution Reduction

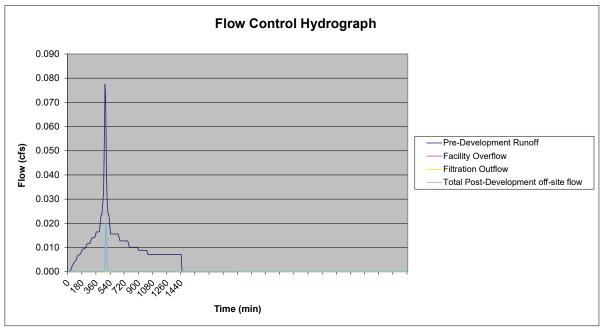


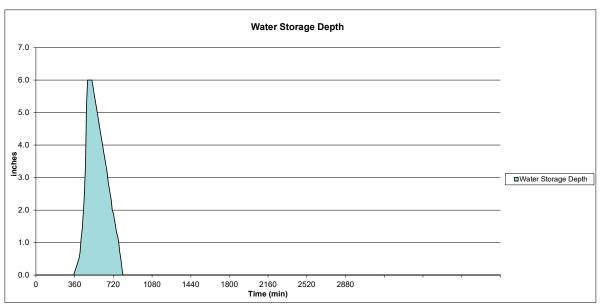




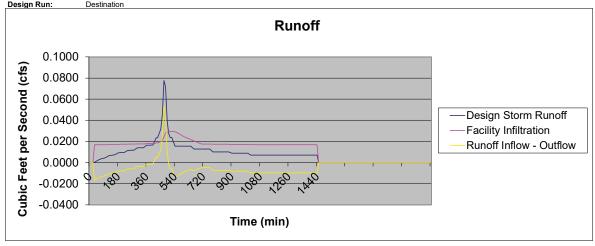
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3D

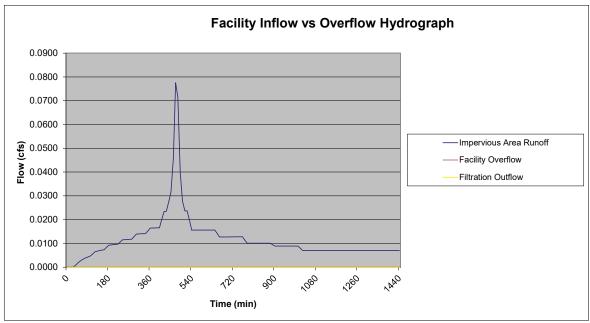


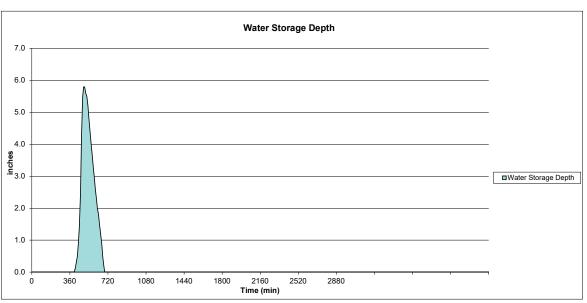




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3D
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	NA		
	Florence, OR			Catchment ID:	<u>3E</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
Instructions:							
Complete this form for	each drainage catchme	ent in the project site t	that is to be size	ed per the Presum	ptive Approach		
Provide a distinctive C calculations with the factors	atchment ID for each factority.	cility coordinated with	the site basin	map to correlate th	ne appropriate		
3. The maximum drainag							
4.For infiltration facilities					filtration rate of	0.5 in/hr.	
For all facilities use a	maximum soil infiltration	rate of 2.5 in/hr for to	opsoil/growing r	nedium.			
Design Requirements:							
Choose "Yes" from the d	ropdown boxes below ne	ext to the design stan	dards requirem	ents for this facility	y .		
Pollution Reduction	on (PR) Yes						
Flow Conti							
	` '						
Destination	on (DT) Yes *An	n infiltration facility must be o	chosen as the facili	ty type to meet destinat	ion requirements		
Site Data-Post Develop	ment						
Total Square Footage		2534 sqft	Total S	Square Footage P	anvious Area-	0 s	oft
-		•	Total S	-	ous Area CN=	85	qit
liti)	pervious Area CN=	98		Pervi	ous Area CN-	00	
Total Square Footage	of Drainage Area=	2534 sft	Time of Cor	ncentration Post I	Development=	5 m	nin
	ghted Average CN=	98	Time or cor	icentration rost i	Development-[<u>J</u> II	1111
			if Flance Camer	al ia na accina d\			
Site Data-Pre Developm		section is only used					
	e-Development CN=	98	Time of Co	ncentration Pre-I	Development=	5 m	ıin
Soil Data							
	oil Infiltration Rate=	10 in/hr (See Not	te 4)		ation Design=	5 ir	ı/hr
	oil Infiltration Rate=	4 in/hr		Soil in	filtration Rate		
Design Storms Used Fo	or Calculations						
Requirement	Rainfall Depth De	esign Storm					
Pollution Reduction	0.8 inches Wa	ater Quality					
Flow Control	5.1 inches Flo	ood Control					
Destination	5.1 inches Flo	ood Control					
Facility Data							
• • • • • • • • • • • • • • • • • • • •	Facility Type= Inf	filtration Stormwater	r Planter	Facility 9	Surface Area=	254.1 s	aft
	Surface Width=	7.7 ft	- lantei	_	ce Perimeter=	81.4 ft	
	Surface Length=	33 ft		-	Bottom Area=	141 s	
Fs	acility Side Slopes=	3 to 1		-	m Perimeter=	69 ft	
	Ponding Depth			. admity botto		- 55	
	mwater Facility=	6 in		В	asin Volume=	101.0 c	f
	ring Medium (Soil)=	18 in	Ratio of Fa	cility Area to Imp	ervious Area=	0.100	

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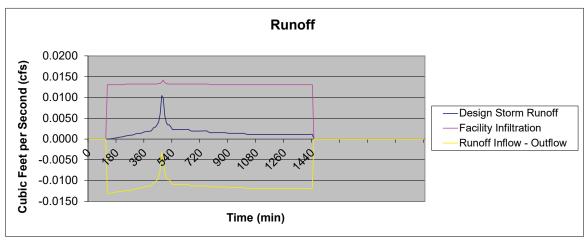
Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	132 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Mee	ets Pollution Reduction Stan	dards?			
YES Meets Requir	rement of No Facility Flooding?				
YES Meets Requir	rement for Maximum of 18 Hour D	rawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs			
Total Runoff Volume to Stormwater		,			
Facility =	1016 cf	Total Overflow Volume= 25 cf			
		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Pre-Development Run	off Data				
Peak Flow Rate =	0.078 cfs				
Total Runoff Volume =	1018 cf				
Yes Facility Sizing Mee	ets Flow Control Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater	1010	T. 1.0 . 11 . 11			
Facility =	1016 cf 5.8 in	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility= Drawdown Time=	0.2 hours				
Diawdowii Tillie- U.Z lilodis					
Yes Facility Sizing Meets Destination Standards?					
	rement of No Facility Flooding? rement for Maximum of 30 hour D	rawdown Time?			
					

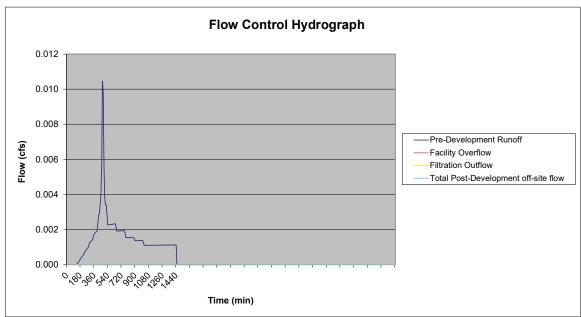
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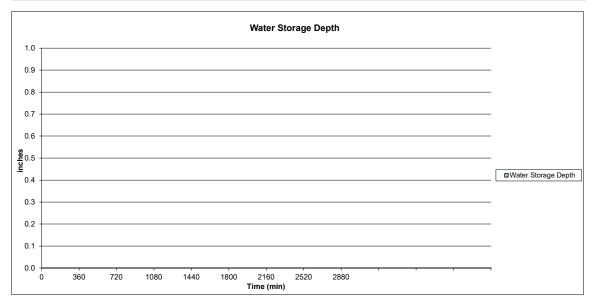
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 3E

Design Run: Pollution Reduction

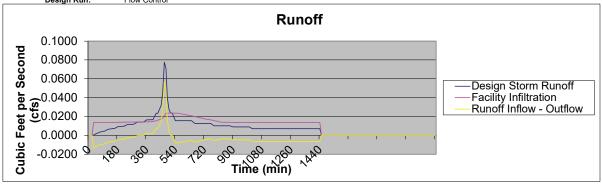


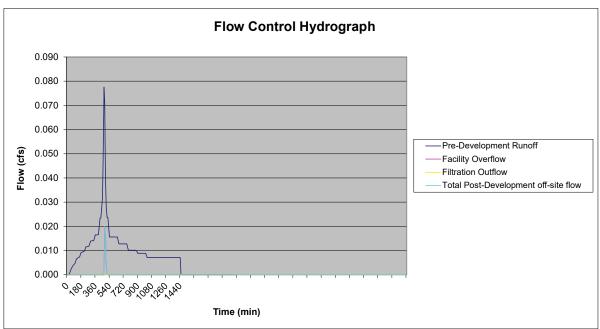


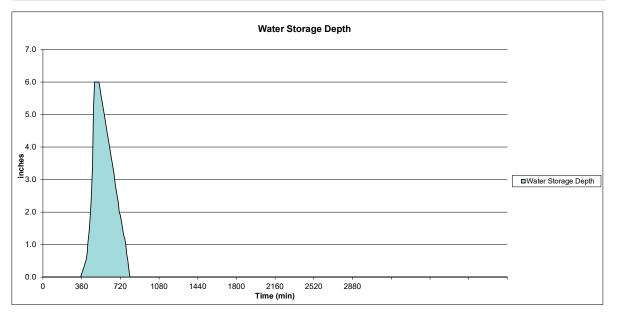


Project Name: Three Mile Prairie Permit Number:

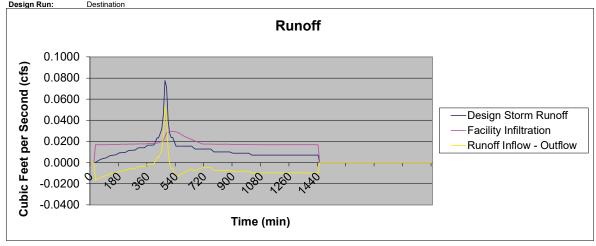
NA 3E Catchment ID: Design Run: Flow Control

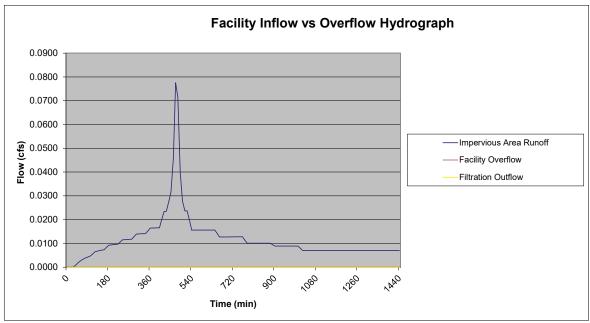


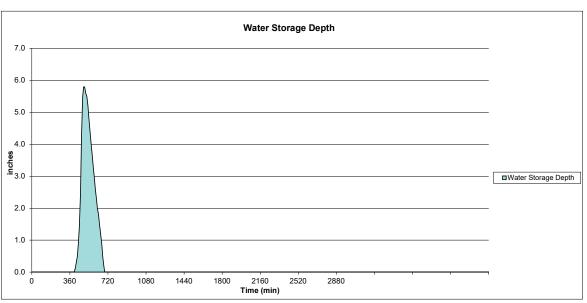




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3E
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	-					
	Version 2.1					
Project Information				- · · · · · · · · · · · · · · · · · · ·		
Project Name:	Three Mile Prairie			Date: 12/30/202	<u>:0</u>	
Project Address:	18-12-15-00-00200			Permit Number: NA		
	Florence, OR			Catchment ID: 3F		
Designer:	Clint Beecroft					
Company:	EGR & Associates					
Instructions:						
	r each drainage catchn	nent in the project site th	nat is to be siz	ed per the Presumptive Appre	oach	
	_			map to correlate the appropri		
calculations with the f		acinity coordinated man		ар то солголаго ало арргор		
	•	deled per the Presumptiv	ive Approach	is 1 acre (43.560 SF)		
				perfromed use an infiltration ra	ate of 0.5 in/hr.	
		on rate of 2.5 in/hr for top	-			
Design Requirements:			.5 5			
Design Requirements.						
Choose "Yes" from the o	dropdown boxes below	next to the design stand	lards requirer	nents for this facility.		
Dallastian Dastassti	(DD) V					
Pollution Reducti						
Flow Cont						
Destinati	on (DT) Yes	An infiltration facility must be ch	hosen as the faci	lity type to meet destination requireme	ents	
Cita Data Daat Davidar						
Site Data-Post Develop	oment -					
Total Square Footage Impervious Area= 2534 sqft Total Square Footage Pervious Area= 0 sqft						
Impervious Area CN= 98 Pervious Area CN= 85						
Total Square Footag	_	2534 sft	Time of Co	ncentration Post Developme	ent= 5 min	
Weighted Average CN= 98						
Site Data-Pre Developr	nent (Data in this	s section is only used i	if Flow Conti	ol is required)		
Pro	e-Development CN=	98	Time of C	oncentration Pre-Developme	ent= 5 min	
Soil Data						
Tested S	oil Infiltration Rate=	10 in/hr (See Note	e 4)	Destination Desi	ign= 5 in/hr	
	oil Infiltration Rate=	4 in/hr		Soil Infiltration I		
Design Storms Used F	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction		Water Quality				
Flow Control		Flood Control				
Destination		Flood Control				
Facility Data						
		nfiltration Stormwater	Planter	Facility Surface A		
Surface Width= 7.7 ft Facility Surface Perimeter= 81.4 ft						
Facility Side Slopes 3 to 1 Facility Bottom Perimeter 69 ft						
Max. Ponding Depth in Stormwater Facility= 6 in Basin Volume= 101.0 cf						
Depth of Growing Medium (Soil)= 18 in Ratio of Facility Area to Impervious Area= 0.100						

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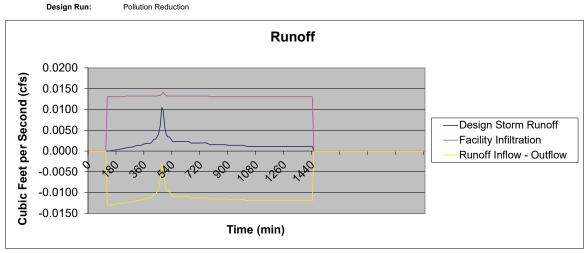
Peak Flow Rate to Stormwater Facility = 0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater						
Facility = 132 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility= 0.0 in Drawdown Time= 0.2 hours						
Diawdowii Time 0.2 nodis						
Yes Facility Sizing Meets Pollution Reduction Standards?						
YES Meets Requirement of No Facility Flooding?						
YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs					
Total Runoff Volume to Stormwater						
Facility = 1016 cf	Total Overflow Volume= 25 cf					
	Peak Off-Site Flow Rate					
Max. Depth of Stormwater in Facility= 6.0 in	Filtration Facility Underdrain= N\A cfs					
Drawdown Time= 0.2 hours						
Pre-Development Runoff Data						
Peak Flow Rate = 0.078 cfs						
Total Runoff Volume = 1018 cf						
Yes Facility Sizing Meets Flow Control Standards?						
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater Facility = 1016 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility= 5.8 in	Total Overnow Volume=					
Drawdown Time= 0.2 hours						
Yes Facility Sizing Meets Destination Standards?						
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?						

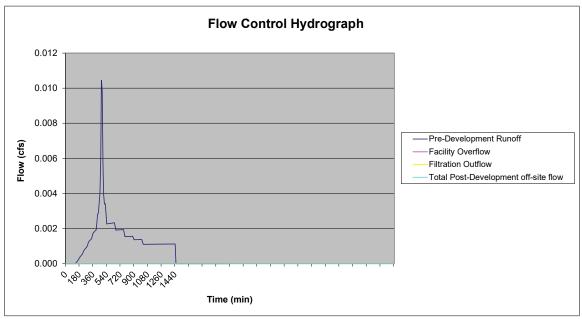
1/28/2021-6:10 AM 2

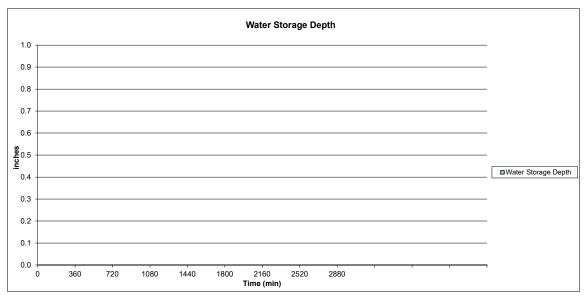
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 3F

Pollution Reduction

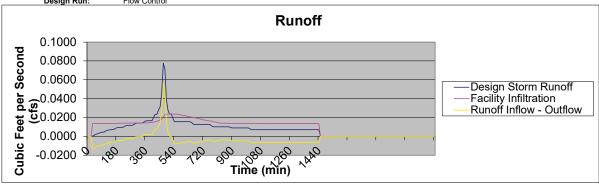


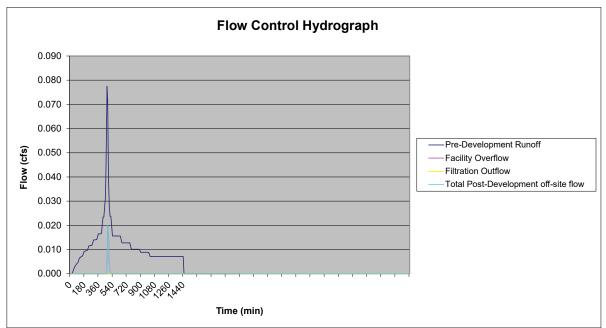


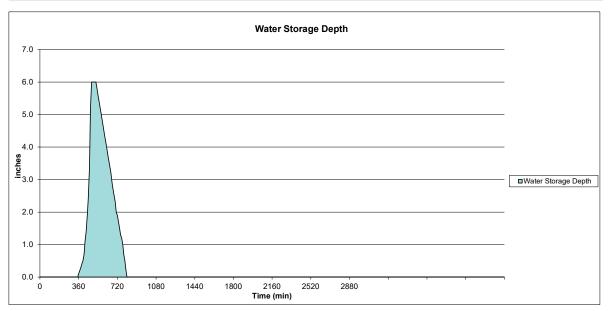


Project Name: Three Mile Prairie Permit Number:

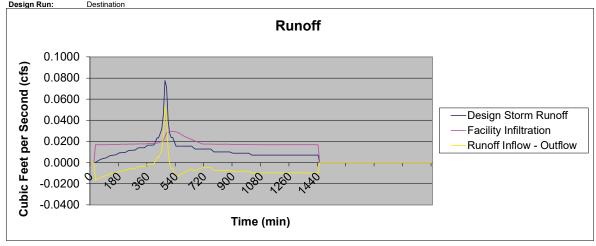
NA 3F Catchment ID: Design Run: Flow Control

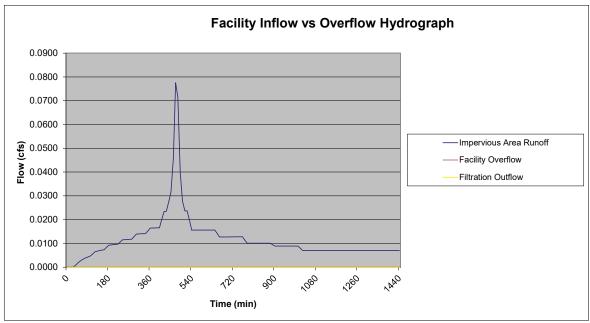


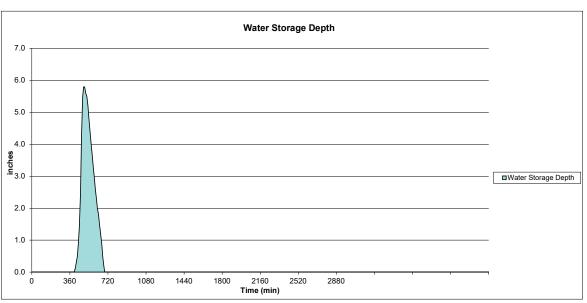




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3F
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	-					
	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie			Date: 12/30/20	<u>20</u>	
Project Address:	18-12-15-00-00200			Permit Number: NA		
	Florence, OR			Catchment ID: 3G		
Designer:	Clint Beecroft					
Company:	EGR & Associates					
Instructions:						
	r each drainage catchn	nent in the project site th	at is to be siz	zed per the Presumptive App	roach	
	_			map to correlate the appropr		
calculations with the f		acinty coordinated man		map to complate the appropr		
	,	deled per the Presumpti	ve Approach	is 1 acre (43.560 SF)		
				perfromed use an infiltration r	ate of 0.5 in/hr.	
		on rate of 2.5 in/hr for top	-			
Design Requirements:			9			
Design Requirements.						
Choose "Yes" from the o	dropdown boxes below	next to the design stand	lards requirer	nents for this facility.		
	(22)					
Pollution Reducti						
Flow Cont	rol (FC) Yes					
Destinati	on (DT) Yes *	An infiltration facility must be ch	nosen as the faci	lity type to meet destination requirem	ents	
	-					
Site Data-Post Develop	oment					
Total Square Footag	e Impervious Area=	2492 sqft	Total	Square Footage Pervious A	Area= 0 sqft	
In	npervious Area CN=	98		Pervious Area	CN= 85	
	-					
Total Square Footag	e of Drainage Area=	2492 sft	Time of Co	ncentration Post Developm	nent= 5 min	
Wei	ighted Average CN=	98				
Site Data-Pre Developr	nent (Data in this	s section is only used i	if Flow Conti	ol is required)		
Dre	e-Development CN=	98		oncentration Pre-Developm	nent= 5 min	
	e-Development CN-	90	Tillie of C		ient-	
Soil Data						
	oil Infiltration Rate=	10 in/hr (See Note	e 4)	Destination Des		
	oil Infiltration Rate=	4 in/hr		Soil Infiltration	Kate	
Design Storms Used F	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction		Vater Quality				
Flow Control		Flood Control				
Destination	5.1 inches F	Flood Control				
Facility Data						
Tuomity Duta	Eggility Type=	nfiltration Stormwater	Diantor	Equility Surface /	254 1 ogft	
	Surface Width=	7.7 ft	rialiter	Facility Surface A Facility Surface Perime		
	_			Facility Surface Perim		
-	Surface Length=			•		
	Facility Side Slopes= 3 to 1 Facility Bottom Perimeter= 69 ft Max. Ponding Depth					
	mwater Facility=	6 in		Basin Volu	ume= 101.0 cf	
	ving Medium (Soil)=	18 in	Ratio of Fa	acility Area to Impervious A		
	J			,		

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Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater						
Facility = 130 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility= 0.0 in	170					
Drawdown Time= 0.2 hou	JIS					
Yes Facility Sizing Meets Pollution	on Reduction Standards?					
YES Meets Requirement of No	Facility Flooding?					
YES Meets Requirement for M	laximum of 18 Hour Drawdown Time?					
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.076 cfs	Peak Facility Overflow Rate= 0.016 cfs					
Total Runoff Volume to Stormwater						
Facility = 999 cf	Total Overflow Volume= 20 cf					
	Peak Off-Site Flow Rate					
Max. Depth of Stormwater in Facility= 6.0 in	Filtration Facility Underdrain= N\A cfs					
Drawdown Time= 0.2 hou	ırs					
Pre-Development Runoff Data						
Peak Flow Rate = 0.076 cfs						
Total Runoff Volume = 1002 cf						
Yes Facility Sizing Meets Flow C	Yes Facility Sizing Meets Flow Control Standards?					
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.076 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater Facility = 999 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility 5.7 in	Total Overnow volume-					
Drawdown Time= 0.2 hou	urs					
Yes Facility Sizing Meets Destination Standards?						
YES Meets Requirement of No YES Meets Requirement for N	o Facility Flooding? laximum of 30 hour Drawdown Time?					
Meets Requirement for Maximum of 30 flour Drawdown Time:						

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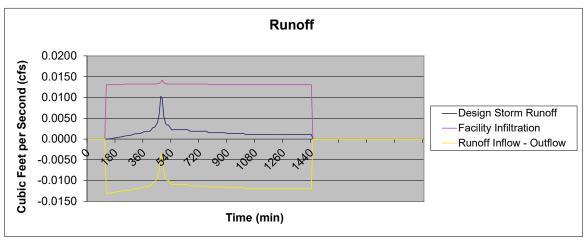
Project Name: Permit Number: Catchment ID:

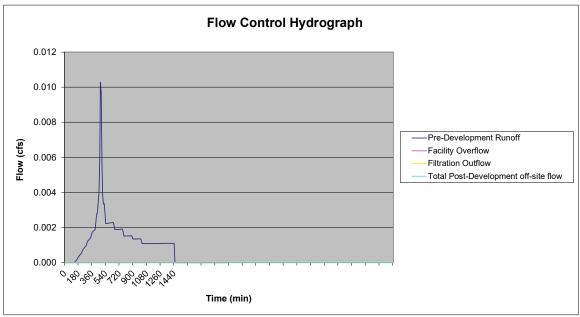
Design Run:

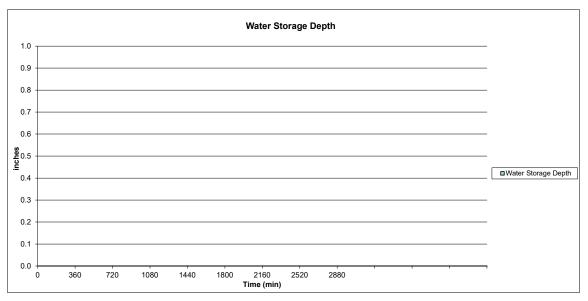
Three Mile Prairie

NA 3G

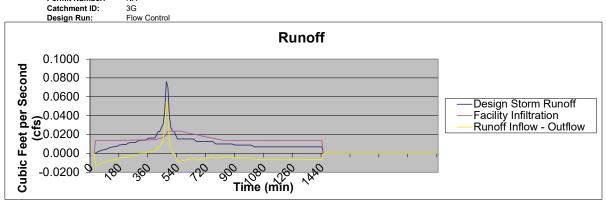
Pollution Reduction

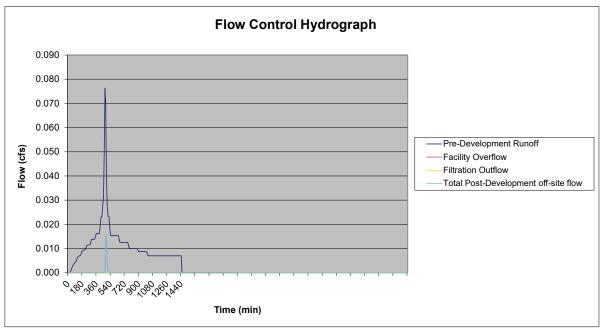


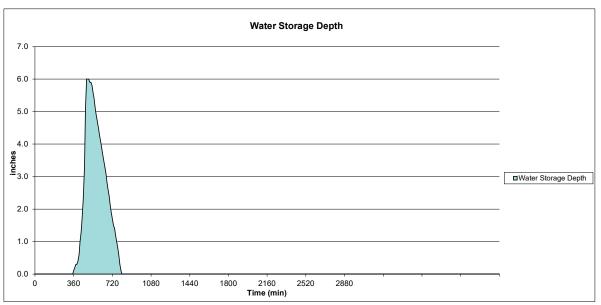




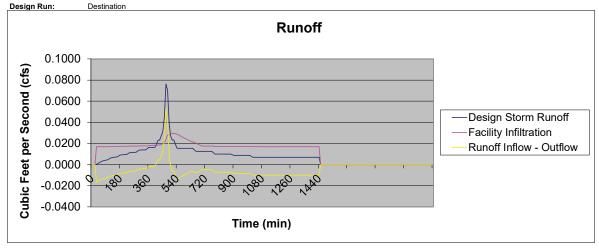
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3G

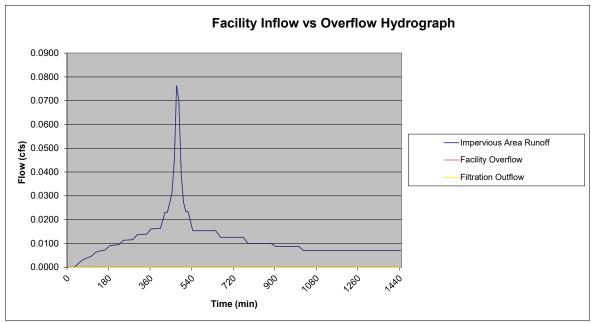


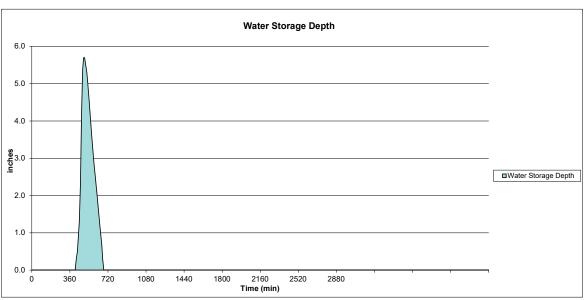




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3G
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	NA		
	Florence, OR			Catchment ID:	3H		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
Instructions:							
Complete this form for	each drainage catch	nment in the project site th	nat is to be size	ed ner the Presum	ntive Approach		
•	atchment ID for eacl	n facility coordinated with		•			
	•	odeled per the Presumpti	ive Approach i	s 1 acre (43 560 S	F)		
		where no infiltration testir		·	•	0.5 in/hr	
		tion rate of 2.5 in/hr for top	-		initiation rate of	0.0 11//111	
		non rate of 2.5 m/m for top	psoi/growing r	nedidin.			
Design Requirements:							
Choose "Yes" from the o	ropdown boxes below	w next to the design stand	dards requirem	ents for this facility	y.		
		•					
Pollution Reducti	on (PR) Yes						
Flow Cont	rol (FC) Yes	1					
Destinati	on (DT) Yes	*An infiltration facility must be cl	hosen as the facili	tv tvpe to meet destinati	ion requirements		
	, ,	.		, ,,	•		
Site Data-Post Develop	ment						
Total Square Footag	e Impervious Area=	2492 sqft	Total S	Square Footage P	ervious Area=	0	sqft
-	pervious Area CN=			-	ous Area CN=	85	
	.,				_		
Total Square Footage	e of Drainage Area=	2492 sft	Time of Con	centration Post D	Development=	5	min
	ghted Average CN=						
Site Data-Pre Developr		nis section is only used i	if Flow Contro	ol is required)			
•	`				r	_	
	e-Development CN=	98	Time of Co	ncentration Pre-D)evelopment=	5	min
Soil Data							
Tested Se	oil Infiltration Rate=	10 in/hr (See Note	e 4)	Destin	ation Design=	5	in/hr
Design S	oil Infiltration Rate=	4 in/hr		Soil In	filtration Rate		
Design Storms Used F	or Calculations						
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction	0.8 inches	Water Quality					
Flow Control	5.1 inches	Flood Control					
Destination	5.1 inches	Flood Control					
Facility Data							
-	Facility Type=	Infiltration Stormwater	Planter	Facility 9	Surface Area=	254.1	saft
	Surface Width=	7.7 ft	. /4/10/	_	ce Perimeter=	81.4	
	Surface Length=	33 ft		-	Bottom Area=	141	
	=acility Side Slopes			-	m Perimeter=	69	-
	Ponding Depth	3101		i acmity botto	Fermileter-	09	
	mwater Facility=	6 in		В	asin Volume=	101.0	cf

1/28/2021-6:14 AM

Ratio of Facility Area to Impervious Area=

0.102

18 in

Depth of Growing Medium (Soil)=

Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater						
Facility = 130 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility= 0.0 in	170					
Drawdown Time= 0.2 hou	JIS					
Yes Facility Sizing Meets Pollution	on Reduction Standards?					
YES Meets Requirement of No	Facility Flooding?					
YES Meets Requirement for M	laximum of 18 Hour Drawdown Time?					
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.076 cfs	Peak Facility Overflow Rate= 0.016 cfs					
Total Runoff Volume to Stormwater						
Facility = 999 cf	Total Overflow Volume= 20 cf					
	Peak Off-Site Flow Rate					
Max. Depth of Stormwater in Facility= 6.0 in	Filtration Facility Underdrain= N\A cfs					
Drawdown Time= 0.2 hou	ırs					
Pre-Development Runoff Data						
Peak Flow Rate = 0.076 cfs						
Total Runoff Volume = 1002 cf						
Yes Facility Sizing Meets Flow C	Yes Facility Sizing Meets Flow Control Standards?					
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.076 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater Facility = 999 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility 5.7 in	Total Overnow volume-					
Drawdown Time= 0.2 hou	urs					
Yes Facility Sizing Meets Destination Standards?						
YES Meets Requirement of No YES Meets Requirement for N	o Facility Flooding? laximum of 30 hour Drawdown Time?					
Meets Requirement for Maximum of 30 flour Drawdown Time:						

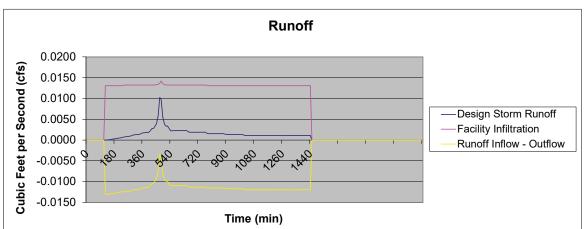
1/28/2021-6:14 AM 2

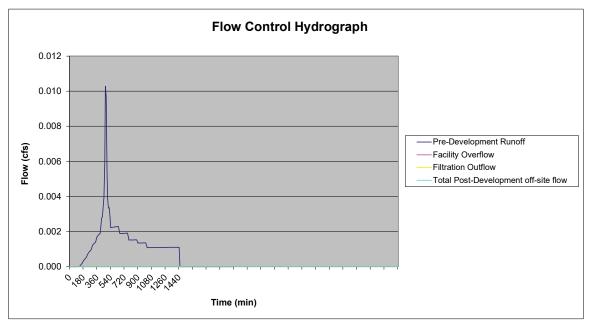
Project Name: Permit Number: Catchment ID:

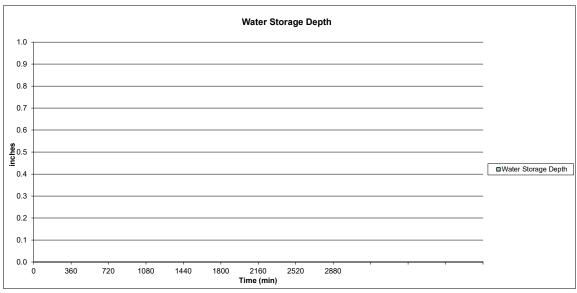
Design Run: Pollution Reduction

NA 3H

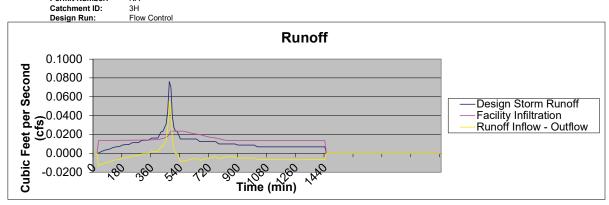
Three Mile Prairie

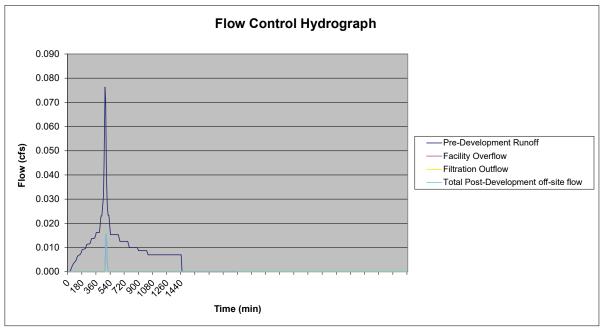


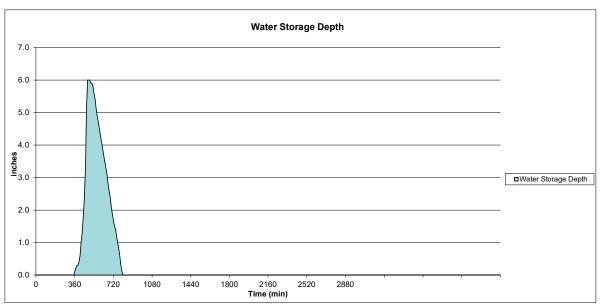




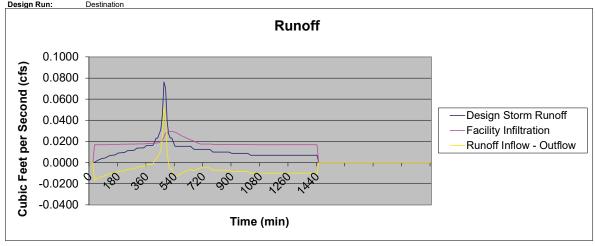
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3H

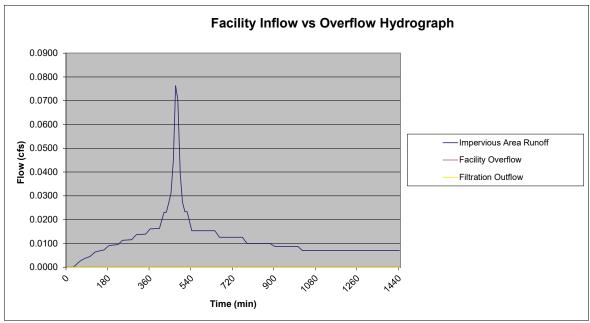


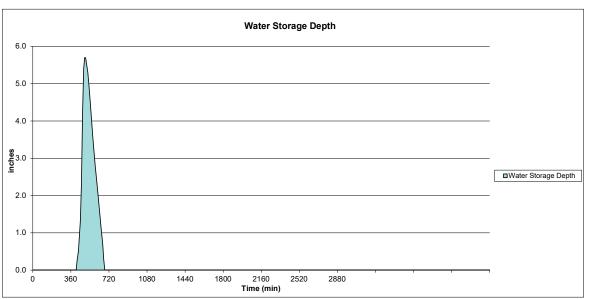




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3H
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene					
	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie			Date: <u>12/30/2020</u>		
Project Address:	18-12-15-00-00200		Permit Nui	nber: <u>NA</u>		
	Florence, OR		Catchmen	: ID: 31		
Designer:	Clint Beecroft					
Company:	EGR & Associates					
Instructions:						
	r each drainage catch	ment in the project site tha	t is to be sized her the P	resumntive Annroact	1	
	_	n facility coordinated with th				
calculations with the f		racinty coordinated with th	c site basin map to come	ate the appropriate		
	•	odeled per the Presumptive	e Approach is 1 acre (43	560 SF)		
	-	where no infiltration testing		•	f 0.5 in/hr	
		ion rate of 2.5 in/hr for tops	•	, an initiation rate of	. 0.0 11//111.	
Design Requirements			-5 5			
Choose "Yes" from the o	dropdown boxes belov	w next to the design standa	rds requirements for this	facility.		
Pollution Reducti	on (PR) Yes	İ				
Flow Cont	` '					
Destinati	` '	* ^ - :::				
Destillati	on (D1)	*An infiltration facility must be cho	sen as the facility type to meet	lestination requirements		
Site Data-Post Develop	oment					
Total Square Footag	o Imporvious Aroa=	812 sqft	Total Square Foot	age Pervious Area=	0 sqft	
-	npervious Area CN=	98	Total Square 1 oot	Pervious Area CN=		
""	ilpervious Area Cit-	90		reivious Alea Cit-	03	
Total Square Footag	e of Drainage Area=	812 sft	Time of Concentration	ost Development=	5 min	
	ighted Average CN=	98				
Site Data-Pre Developr		is section is only used if	Flow Control is require	d)		
·	e-Development CN=	98	Time of Concentration		5 min	
Soil Data	2 2010.0pmont Oit			Tro Bovelopinioni		
	oil Infiltration Rate=			estination Design=		
	oil Infiltration Rate=	4 in/hr	•	Soil Infiltration Rate	!	
Design Storms Used F	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction	0.8 inches	Water Quality				
Flow Control	5.1 inches	Flood Control				
Destination	5.1 inches	Flood Control				
Facility Data						
	Facility Type=	Infiltration Stormwater P	<mark>lanter F</mark> a	cility Surface Area=	64 sqft	
	Surface Width=	6.4 ft		Surface Perimeter=		
	Surface Length=	10 ft	Fa	cility Bottom Area=	64 sqft	
F	acility Side Slopes=	0 to 1	Facility	Bottom Perimeter=	33 ft	
	Ponding Depth					
	mwater Facility=	6 in		Basin Volume=		
Denth of Grov	vina Medium (Soil)=	18 in	Ratio of Facility Area t	1 IMPORVIOUS Aros=	0.079	

1/28/2021-6:18 AM

Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility = Total Runoff Volume to Stormwater	.003 cfs Peak Facility Overflow Rate= 0.000 cfs				
Facility =	42 cf Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Meets	Pollution Reduction Standards?				
	ent of No Facility Flooding?				
YES Meets Requirem	ent for Maximum of 18 Hour Drawdown Time?				
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	.025 cfs Peak Facility Overflow Rate= 0.007 cfs				
Total Runoff Volume to Stormwater					
Facility =	326 cf Total Overflow Volume= 9 cf				
	Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	6.0 in Filtration Facility Underdrain N\A cfs				
Drawdown Time=	0.2 hours				
Pre-Development Runoff	Data				
	0.025 cfs				
Total Runoff Volume =	326 cf				
Yes Facility Sizing Meets	Flow Control Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility = Total Runoff Volume to Stormwater	.025 cfs Peak Facility Overflow Rate= 0.000 cfs				
Facility =	326 cf Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	5.8 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Meets Destination Standards?					
	ent of No Facility Flooding? ent for Maximum of 30 hour Drawdown Time?				

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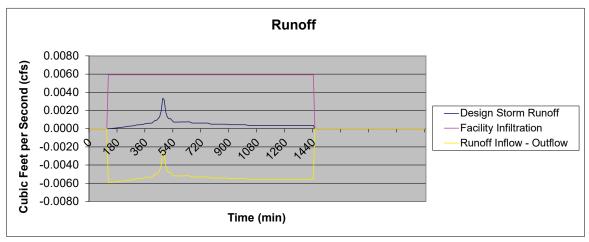
Project Name: Permit Number: Catchment ID:

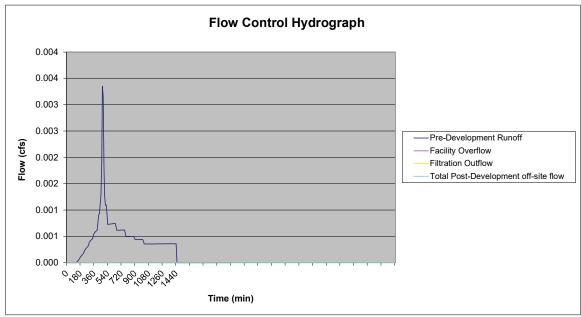
Design Run:

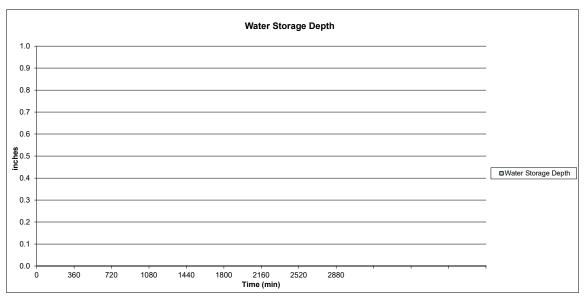
Three Mile Prairie

NA 3I

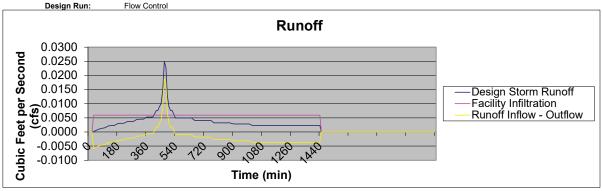
Pollution Reduction

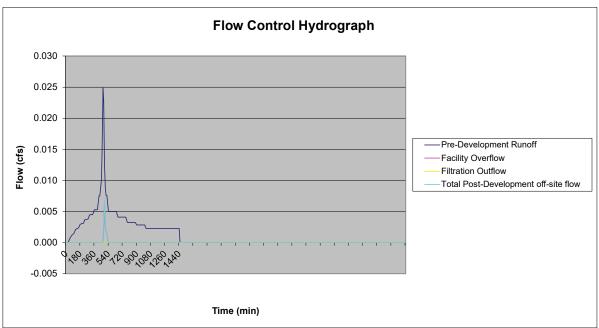


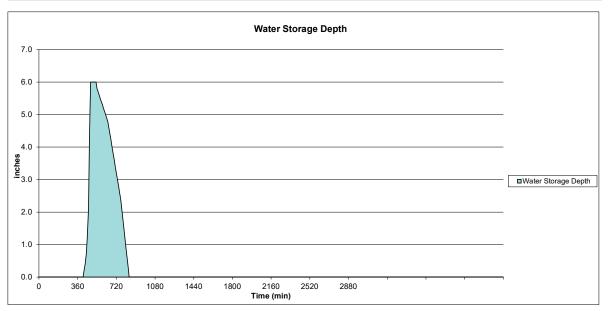




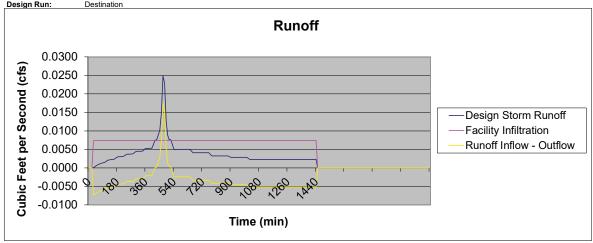
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3I
Design Run: Flow Control

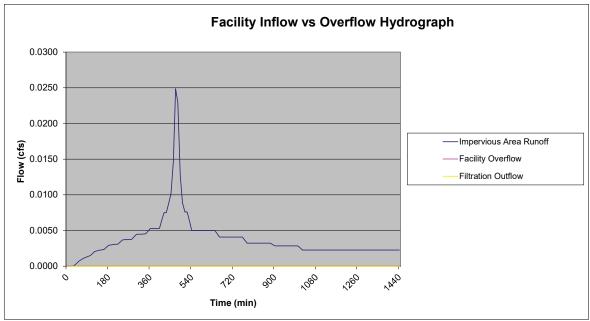


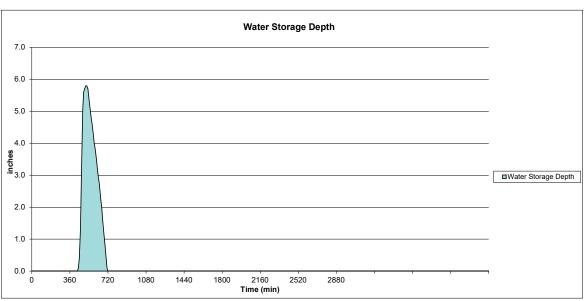




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3I
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene					
	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie			Date: <u>12/30/2020</u>		
Project Address:	<u>18-12-15-00-00200</u>		Permit Nu	nber: <u>NA</u>		
	Florence, OR		Catchmen	: ID: <u>3J</u>		
Designer:	Clint Beecroft					
Company:	EGR & Associates					
Instructions:						
	r each drainage catch	nment in the project site the	at is to he sized her the P	resumntive Annroach	1	
	-	n facility coordinated with t				
calculations with the f		riacinty coordinated with t	ne site basiii map to com	ate the appropriate		
	•	odeled per the Presumptiv	ve Approach is 1 acre (43	560 SE)		
		where no infiltration testing		•	f 0.5 in/hr	
		tion rate of 2.5 in/hr for top	•	, an initiation rate o	1 0.0 11/111.	
Design Requirements						
Choose "Yes" from the o	Iropdown boxes belov	w next to the design stand	ards requirements for this	facility.		
Pollution Reducti	on (PR) Yes	İ				
Flow Cont	` ′					
Destinati	` '	*An infiltration facility must be ak	osen as the facility type to meet	loctination requirements		
Destinati	on (D1) 1es	An inilitration facility must be ch	osen as the facility type to meet	lestination requirements		
Site Data-Post Develop	ment					
Total Square Footag	e Impervious Area=	807 sqft	Total Square Foot	age Pervious Area=	0 so	aft
-	pervious Area CN=		Total Oquale 1 00	Pervious Area CN=		411
•••	ipervious Area est	00		i civious Aicu oit		
Total Square Footag	e of Drainage Area=	807 sft	Time of Concentration	ost Development=	5 m	ıin
	ghted Average CN=					
Site Data-Pre Developr		nis section is only used i	f Flow Control is require	d)		
·	e-Development CN=	98	Time of Concentration		5 m	nin
Soil Data	2 20 Tolopinolit Cit			Tro Borolopinioni		
		in the contract				
	oil Infiltration Rate=			estination Design= Soil Infiltration Rate		_i /hr
	oil Infiltration Rate=	4 in/hr		oii inflitration Rate	ı	
Design Storms Used F	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction	0.8 inches	Water Quality				
Flow Control	5.1 inches	Flood Control				
Destination	5.1 inches	Flood Control				
Facility Data						
	Facility Type=	Infiltration Stormwater	Planter Fa	cility Surface Area=	63 so	qft
	Surface Width=	6.3 ft	Facility	Surface Perimeter=	32.6 ft	
	Surface Length=		Fa	cility Bottom Area=	63 so	qft
	acility Side Slopes=	0 to 1	Facility	Bottom Perimeter=	: 33 ft	
	Ponding Depth					_
	mwater Facility=	6 in		Basin Volume=		Ī
Denth of Grov	ing Medium (Soil)=	18 in	Ratio of Facility Area t	1 IMPORVIOUS Aroa=	0.078	

1/28/2021-6:21 AM

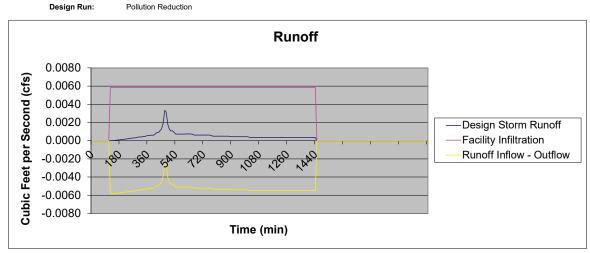
Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.003 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	42 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Me	eets Pollution Re	duction Standards?				
YES Meets Requ	uirement of No Facili	ity Flooding?				
YES Meets Requ	uirement for Maximu	m of 18 Hour Drawdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.025 cfs	Peak Facility Overflow Rate= 0.007 cfs				
Total Runoff Volume to Stormwater						
Facility =	324 cf	Total Overflow Volume= 10 cf				
		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours					
Pre-Development R						
Total Runoff Volume =	0.025 cfs 324 cf					
Total Rulloll Volulle -	324 CI					
Yes Facility Sizing Mo	eets Flow Contro	I Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.025 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	324 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	5.9 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Meets Destination Standards?						
	uirement of No Facili uirement for Maximu	ity Flooding? m of 30 hour Drawdown Time?				

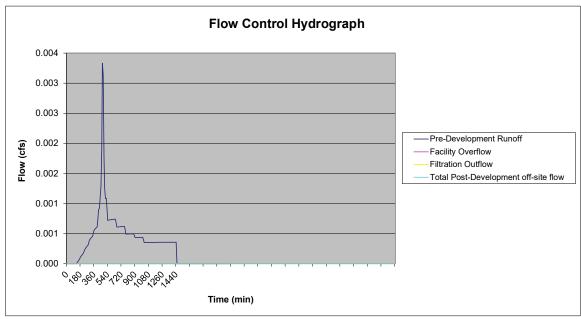
1/28/2021-6:21 AM 2

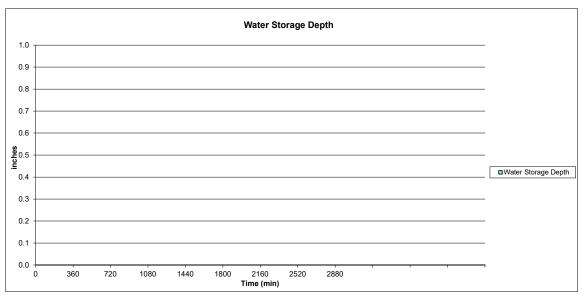
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 3J

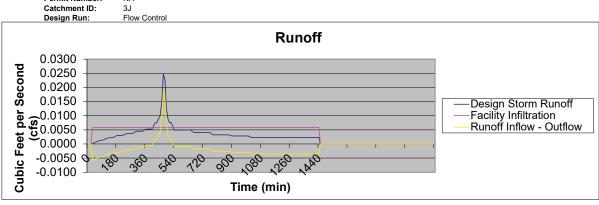
Pollution Reduction

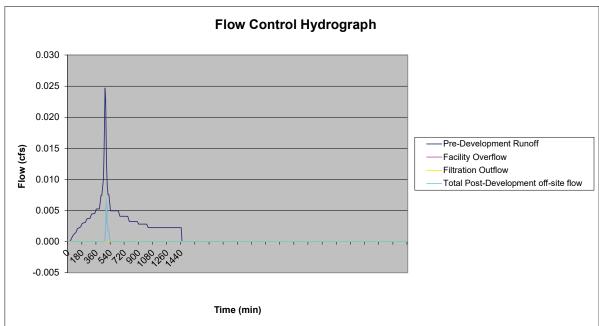


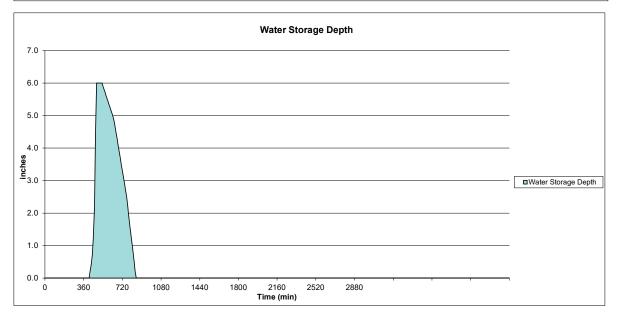




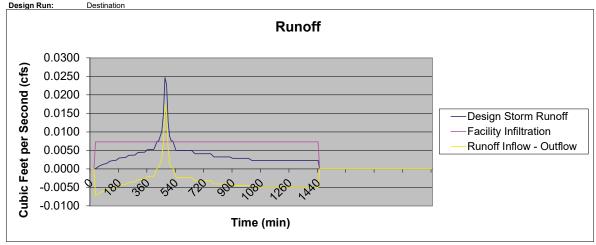
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3J

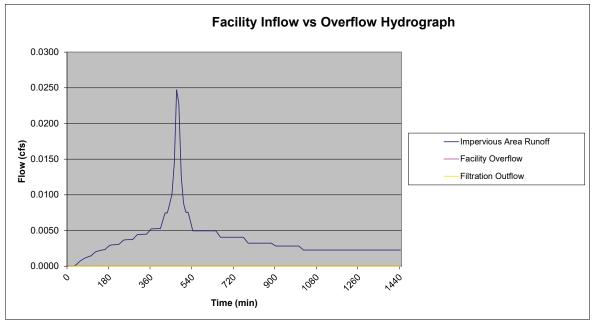


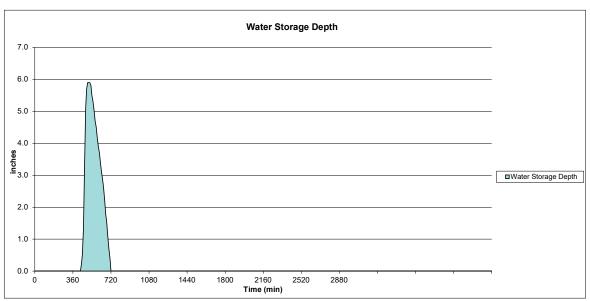




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3J
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.4	
Project Information	Version 2.1	
Project Name:	Three Mile Prairie	Date: 12/30/2020
Project Address:	18-12-15-00-00200	Permit Number: NA
•	Florence, OR	Catchment ID: 3K
Designer:	Clint Beecroft	
Company:	EGR & Associates	
Instructions:		
		e that is to be sized per the Presumptive Approach.
		th the site basin map to correlate the appropriate
calculations with the	•	
	ge catchment to be modeled per the Presum	
		sting has been perfromed use an infiltration rate of 0.5 in/hr.
	maximum soil infiltration rate of 2.5 in/hr for	topsoil/growing medium.
Design Requirements	:	
Choose "Yes" from the	dropdown boxes below next to the design sta	andards requirements for this facility
Onlock Tes hom the	dropdown boxes below floxt to the design ste	indured requirements for the resulty.
Pollution Reduct	ion (PR) Yes	
Flow Conf	trol (FC) Yes	
Destinat	` '	e chosen as the facility type to meet destination requirements
	, ,	
Site Data-Post Develo	pment	
Total Square Footag	ge Impervious Area= 1698 sqft	Total Square Footage Pervious Area= 0 sqft
	npervious Area CN= 98	Pervious Area CN=
	·	
Total Square Footag	e of Drainage Area= 1698 sft	Time of Concentration Post Development= 5 min
We	ighted Average CN= 98	<u> </u>
Site Data-Pre Develop	ment (Data in this section is only use	d if Flow Control is required)
Pr	re-Development CN= 98	Time of Concentration Pre-Development= 5 min
Soil Data		Time of concentration the potential in the concentration of the concentr
	in/br (0	
	in/hr (See Noil Infiltration Rate=	Note 4) Destination Design= 5 in/hr Soil Infiltration Rate
		Soil illilitration Rate
Design Storms Used F	or Calculations	
Requirement	Rainfall Depth Design Storm	
Pollution Reduction	0.8 inches Water Quality	
Flow Control	5.1 inches Flood Control	
Destination	5.1 inches Flood Control	
Facility Data		
	Facility Type= Infiltration Stormwat	er Planter Facility Surface Area= 117 sqft
	Surface Width= 11.7 ft	Facility Surface Perimeter= 43.4 ft
	Surface Length= 10 ft	Facility Bottom Area= 117 sqft
F	acility Side Slopes= 0 to 1	Facility Bottom Perimeter= 43 ft
	Ponding Depth	
	r mwater Facility= 8 in	Basin Volume= 78.0 cf
Depth of Grov	wing Medium (Soil)= 18 in	Ratio of Facility Area to Impervious Area= 0.069

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Pollution Reduction-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.007 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater							
Facility =	89 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	0.0 in						
Drawdown Time=	0.2 hours						
Yes Facility Sizing Me	eets Pollution Reduct	ion Standards?					
YES Meets Requ	irement of No Facility Flo	oding?					
YES Meets Requ	irement for Maximum of	18 Hour Drawdown Time?					
Flow Control-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.015 cfs					
Total Runoff Volume to Stormwater							
Facility =	681 cf	Total Overflow Volume= 21 cf					
l I		Peak Off-Site Flow Rate					
Max. Depth of Stormwater in Facility=	8.0 in	Filtration Facility Underdrain= N\A cfs					
Drawdown Time=	0.2 hours						
Pre-Development Ru	inoff Data						
Peak Flow Rate =	0.052 cfs						
Total Runoff Volume =	682 cf						
Yes Facility Sizing Me	eets Flow Control Sta	ndards?					
YES Meets Requ							
Destination-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater Facility =	681 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	7.9 in	Total Overnon Volume					
Drawdown Time=	0.2 hours						
-	5.2.10410						
Yes Facility Sizing Meets Destination Standards?							
	irement of No Facility Flo irement for Maximum of 3	oding? 30 hour Drawdown Time?					

1/28/2021-6:23 AM 2

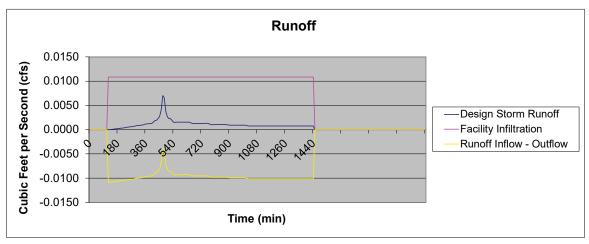
Project Name: Permit Number: Catchment ID:

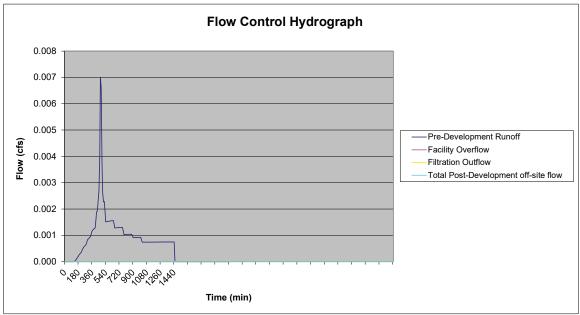
Design Run:

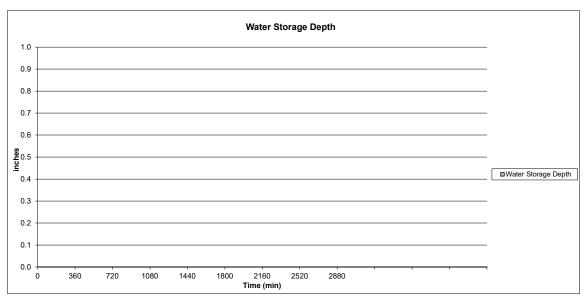
Three Mile Prairie

NA 3K

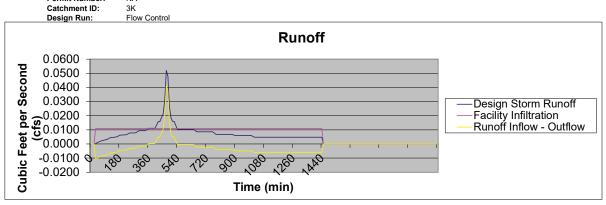
Pollution Reduction

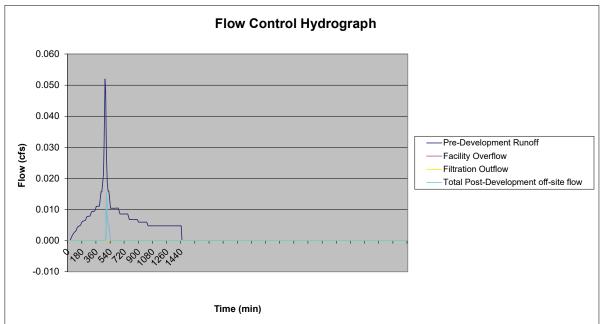


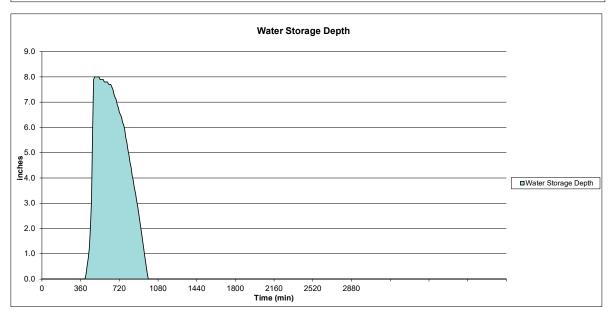




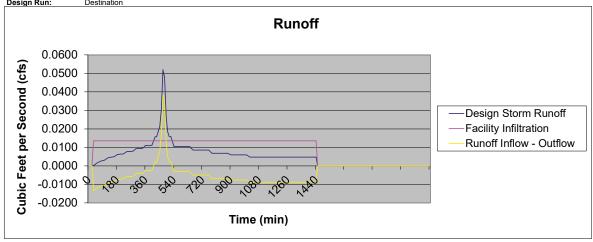
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3K

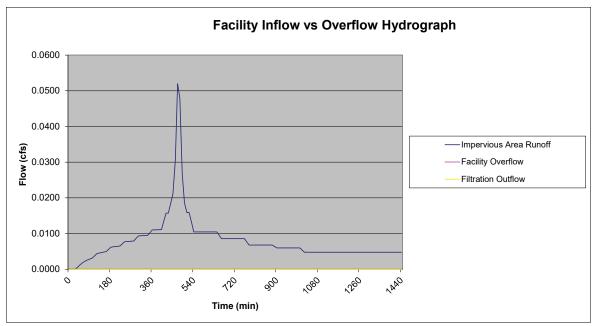


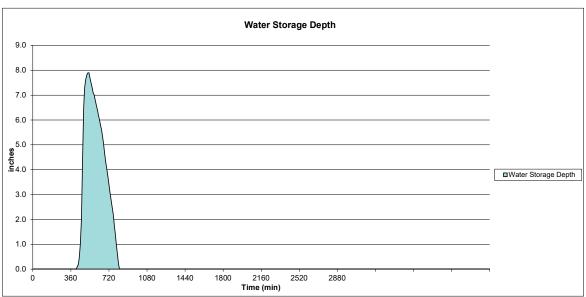




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3K
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1		
Project Information	VOIGION 2.1		
Project Name:	Three Mile Prairie		Date: <u>12/30/2020</u>
Project Address:	18-12-15-00-00200		Permit Number: <u>NA</u>
	Florence, OR		Catchment ID: 3L
Designer:	Clint Beecroft		
Company:	EGR & Associates		
Instructions:			
	r aaah drainaga aatahn	agent in the project site that is to be	a sized par the Programptive Approach
	_		e sized per the Presumptive Approach. asin map to correlate the appropriate
calculations with the fa		acinty coordinated with the site be	asiii map to correlate the appropriate
	•	deled per the Presumptive Approa	ach is 1 acre (43 560 SF)
			en perfromed use an infiltration rate of 0.5 in/hr.
		on rate of 2.5 in/hr for topsoil/grow	
		mrate or 2.0 mm for topoolingrow	ing modium.
Design Requirements:			
Choose "Yes" from the d	Iropdown boxes below	next to the design standards requ	uirements for this facility.
	(22)		
Pollution Reduction			
Flow Cont	` '		
Destinati	on (DT) Yes	An infiltration facility must be chosen as the	e facility type to meet destination requirements
	-		
Site Data-Post Develop	ment		
Total Square Footag	e Impervious Area=	1695 sqft To	otal Square Footage Pervious Area= 0 sqft
Im	npervious Area CN=	98	Pervious Area CN= 85
	_		
Total Square Footage	e of Drainage Area=	1695 sft Time of	f Concentration Post Development= 5 min
Wei	ighted Average CN=	98	
Site Data-Pre Developn	nent (Data in this	s section is only used if Flow Co	ontrol is required)
Pre	e-Development CN=	98 Time o	of Concentration Pre-Development= 5 min
Soil Data			
		in the control of	
	oil Infiltration Rate=	10 in/hr (See Note 4)	Destination Design= 5 in/hr Soil Infiltration Rate
	oil Infiltration Rate=	4 in/hr	Son innitration Rate
Design Storms Used Fo	or Calculations		
Requirement	Rainfall Depth	Design Storm	
Pollution Reduction		Water Quality	
Flow Control	5.1 inches F	Flood Control	
Destination	5.1 inches F	Flood Control	
Facility Data			
•	Facility Type=	nfiltration Stormwater Planter	Facility Surface Area= 117 sqft
	Surface Width=	11.7 ft	Facility Surface Perimeter= 43.4 ft
	Surface Length=	10 ft	Facility Bottom Area= 117 sqft
F	acility Side Slopes=	0 to 1	Facility Bottom Perimeter= 43 ft
	Ponding Depth		. donity Bottom i crimeter—
	mwater Facility=	8 in	Basin Volume= 78.0 cf

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Ratio of Facility Area to Impervious Area=

0.069

18 in

Depth of Growing Medium (Soil)=

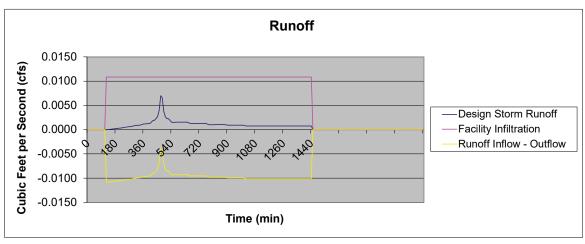
Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.007 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater						
Facility =	88 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	0.0 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Me	ets Pollution Reduct	ion Standards?				
YES Meets Requ	irement of No Facility Flo	oding?				
YES Meets Requ	irement for Maximum of	18 Hour Drawdown Time?				
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.015 cfs				
Total Runoff Volume to Stormwater						
Facility =	680 cf	Total Overflow Volume= 21 cf				
		Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility=	8.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time=	0.2 hours					
Pre-Development Ru	noff Data					
Peak Flow Rate =	0.052 cfs					
Total Runoff Volume =	681 cf					
Yes Facility Sizing Me	ets Flow Control Sta	ndards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater Facility =	680 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility=	7.9 in	Total Overnow Volume-				
Drawdown Time=	0.2 hours					
_	Diawdowii Tillie- 0.2 liodis					
Yes Facility Sizing Meets Destination Standards?						
	irement of No Facility Flo irement for Maximum of	ooding? 30 hour Drawdown Time?				

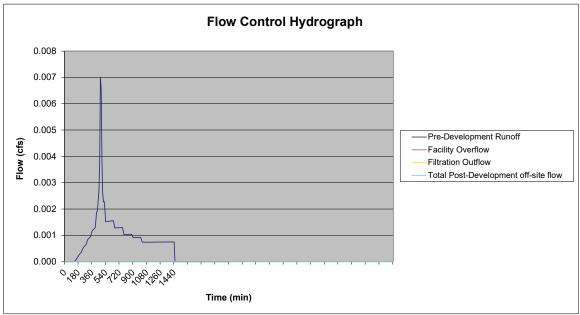
1/28/2021-6:28 AM 2

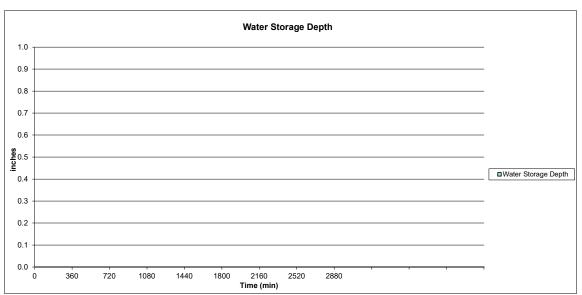
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 3L

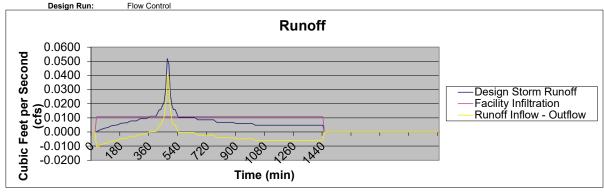
Design Run: Pollution Reduction

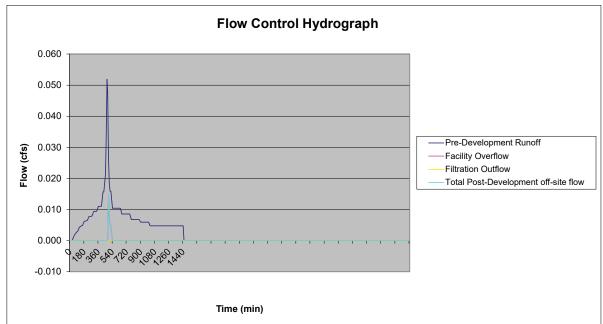


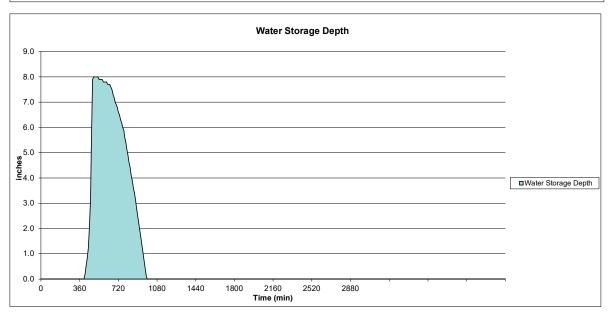




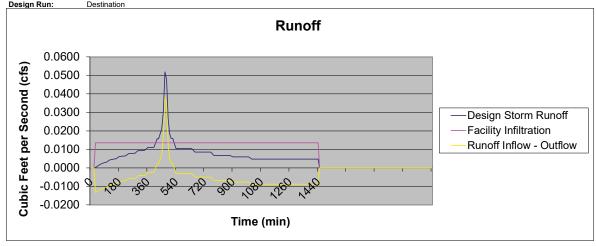
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3L
Design Run: Flow Control

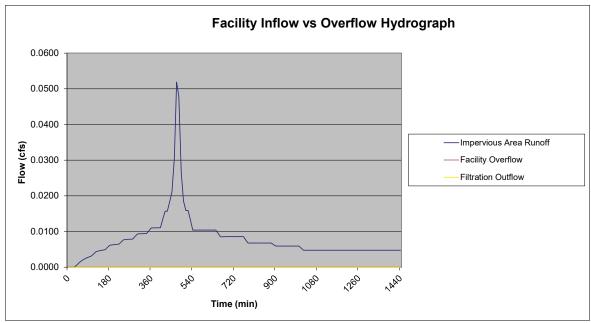


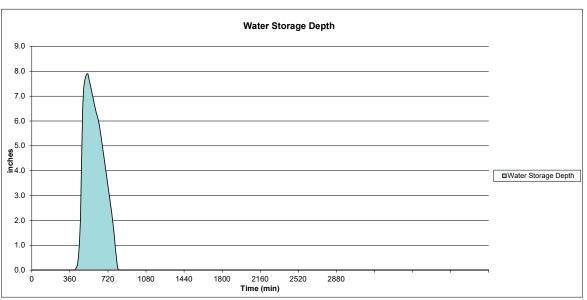




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3L
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1					
Project Information					10/00/000	
Project Name:	Three Mile Prairie				12/30/2020	
Project Address:	18-12-15-00-00200			Permit Number:		
	Florence, OR			Catchment ID:	<u>3M</u>	
Designer:	Clint Beecroft					
Company:	EGR & Associates					
	atchment ID for each acility. Je catchment to be m in Class A or B soils maximum soil infiltrat	n facility coordinated with	n the site basin otive Approach ting has been p	map to correlate the is 1 acre (43,560 Sperfromed use an in	ne appropriate	
Design Requirements:						
Choose "Yes" from the d	ropdown boxes belov	w next to the design stan	ndards requiren	nents for this facility	y .	
Pollution Reducti Flow Cont Destinati	rol (FC) Yes	*An infiltration facility must be	chosen as the faci	lity type to meet destinat	ion requirements	
Site Data-Post Develop	ment					
Total Square Footage	pervious Area CN=			Square Footage Porvi	ous Area CN=	0 sqft 85 5 min
Site Data-Pre Developn	nent (Data in th	is section is only used	if Flow Contr	ol is required)		
Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min						
Soil Data						
Tested Soil Infiltration Rate= 10 in/hr (See Note 4) Destination Design= 5 in/hr Design Soil Infiltration Rate= 4 in/hr Soil Infiltration Rate						
Design Storms Used Fo	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction	0.8 inches	Water Quality				
Flow Control	5.1 inches	Flood Control				
Destination	5.1 inches	Flood Control				
Facility Data						
,	Facility Type-	Infiltration Stormwate	r Diantor	Eacility	Surface Area=	107.8 sqft
	Surface Width=	7.7 ft	i lantei	_	ce Perimeter=	43.4 ft
	Surface Length=			-	Bottom Area=	52 sqft
	•			-		31 ft
	acility Side Slopes=	3 10 1		racility botto	m Perimeter=	3111
Max. Ponding Depth in Stormwater Facility=		6 in		В	asin Volume=	42.1 cf

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0.193

Ratio of Facility Area to Impervious Area=

Pollution Reduction-Calculation Results							
Peak Flow Rate to Stormwater Facility = 0.002 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater							
Facility = 29 cf	Total Overflow Volume= 0 cf						
Max. Depth of Stormwater in Facility= 0.0 in							
Drawdown Time= 0.2 hours							
Yes Facility Sizing Meets Pollution Reduction Standards?							
YES Meets Requirement of No Facility Flooding?							
YES Meets Requirement for Maximum of 18 Hour Drawdown Time?							
Flow Control-Calculation Results							
Peak Flow Rate to Stormwater Facility = 0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater	1 out 1 doine, 0 to mon reads						
Facility = 224 cf	Total Overflow Volume= 0 cf						
	Peak Off-Site Flow Rate						
Max. Depth of Stormwater in Facility= 3.0 in	Filtration Facility Underdrain= N\A cfs						
Drawdown Time= 0.2 hours	·						
Pre-Development Runoff Data							
Peak Flow Rate = 0.017 cfs							
Total Runoff Volume = 224 cf							
Yes Facility Sizing Meets Flow Control Standards?							
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?							
Destination-Calculation Results							
Peak Flow Rate to Stormwater Facility = 0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater	7.110 7. 7.1						
Facility = 224 cf Total Overflow Volume= 0 cf							
Max. Depth of Stormwater in Facility= 2.3 in Drawdown Time= 0.2 hours							
Diawdown Time- 0.2 mous							
Yes Facility Sizing Meets Destination Standards?							
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?							

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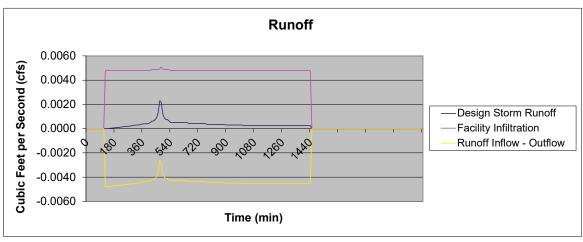
Project Name: Permit Number: Catchment ID:

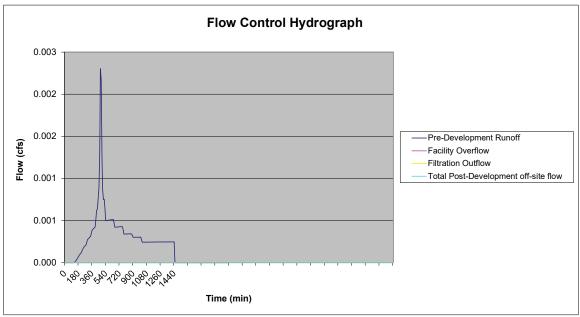
Design Run:

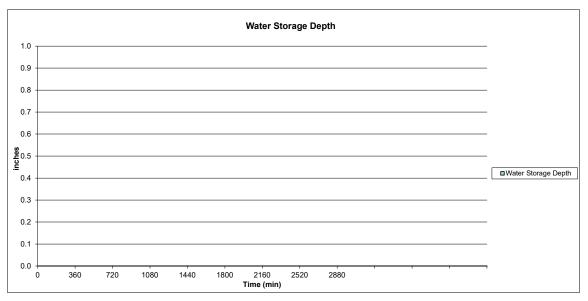
Three Mile Prairie

NA 3M

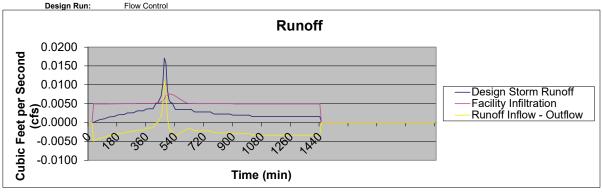
Pollution Reduction

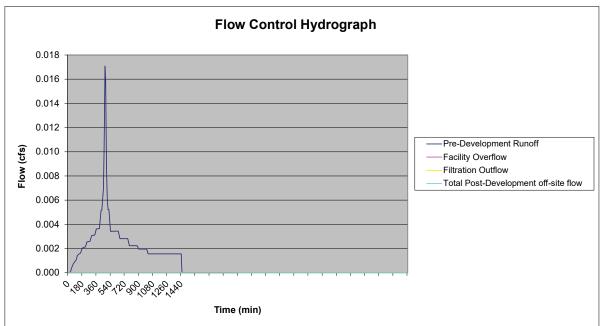


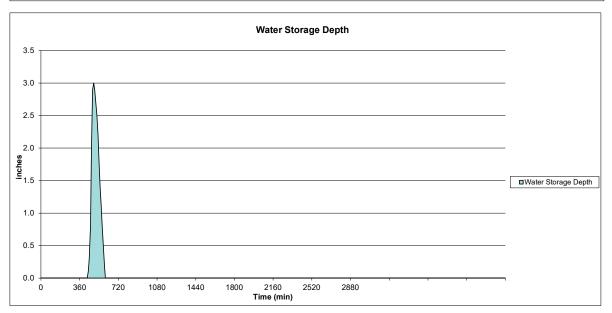




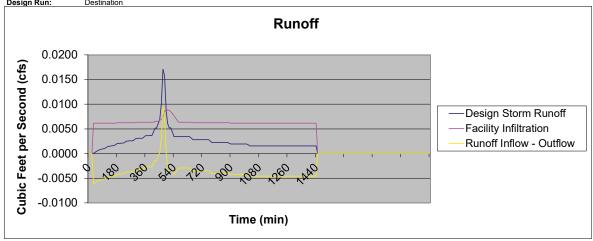
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3M
Design Run: Flow Control

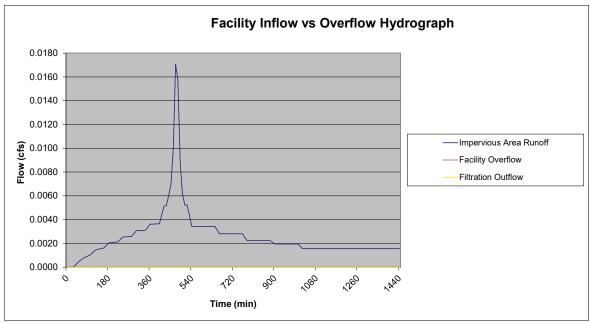


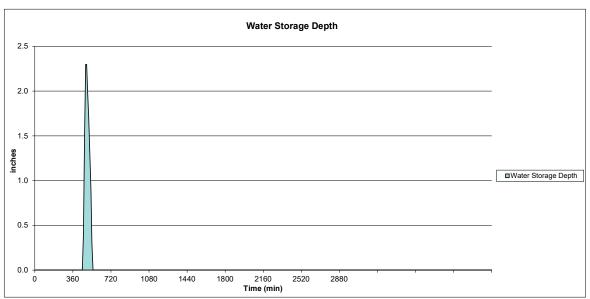




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3M
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	-				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie	Date: 12/30/2020			
Project Address:	<u>18-12-15-00-00200</u>	Permit Number: NA			
	Florence, OR	Catchment ID: 3N			
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Instructions:					
1. Complete this form fo	r each drainage catchment in the pro	oject site that is to be sized per the Presumptive Approach.			
Provide a distinctive C calculations with the f		nated with the site basin map to correlate the appropriate			
3. The maximum drainag	ge catchment to be modeled per the	Presumptive Approach is 1 acre (43,560 SF)			
		ration testing has been perfromed use an infiltration rate of 0.5 in/hr.			
	maximum soil infiltration rate of 2.5				
Design Requirements:					
Choose "Yes" from the o	Iropdown boxes below next to the de	esign standards requirements for this facility.			
Pollution Reducti	on (PR) Yes				
Flow Cont					
Destinati		lity must be chosen as the facility type to meet destination requirements			
Destinati	All Illitidation laci	inty must be chosen as the facility type to meet destination requirements			
Site Data-Post Develop	ment				
Total Square Footag	e Impervious Area= 554 so	aft Total Square Footage Pervious Area= 0 sqft			
Total Square Footage Impervious Area 554 sqft Total Square Footage Pervious Area 0 sqft Impervious Area CN= 98 Pervious Area CN= 85					
impervious Area CN= 98 Pervious Area CN= 85					
Total Square Footag	e of Drainage Area= 554 sf	t Time of Concentration Post Development= 5 min			
-	ghted Average CN= 98	Time of concentration i ost persophient			
Site Data-Pre Developr		only used if Flow Control is required)			
		· · · · · · · · · · · · · · · · · · ·			
	e-Development CN= 98	Time of Concentration Pre-Development= 5 min			
Soil Data					
		/hr (See Note 4) Destination Design= 5 in/hr			
Design S	oil Infiltration Rate= 4 in.	/hr Soil Infiltration Rate			
Design Storms Used F	or Calculations				
Requirement	Rainfall Depth Design Storm	1			
Pollution Reduction	0.8 inches Water Quality				
Flow Control	5.1 inches Flood Control				
Destination	5.1 inches Flood Control				
Facility Data					
	Facility Type= Infiltration St	ormwater Planter Facility Surface Area= 107.8 sqft			
	Surface Width= 7.7 ft	Facility Surface Perimeter= 43.4 ft			
	Surface Length= 14 ft Facility Bottom Area= 52 sqft				
F	acility Side Slopes= 3 to	·			
	Ponding Depth	,			
	mwater Facility= 6 in	Basin Volume= 42.1 cf			
Depth of Grov	Depth of Growing Medium (Soil)= 18 in Ratio of Facility Area to Impervious Area= 0.195				

1/28/2021-6:32 AM

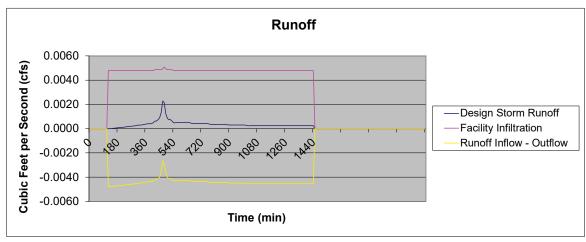
Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.002 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	29 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Me	eets Pollution Redu	uction Standards?			
YES Meets Requ	uirement of No Facility	Flooding?			
YES Meets Requ	irement for Maximum	of 18 Hour Drawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater		,			
Facility =	222 cf	Total Overflow Volume= 0 cf			
		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	3.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Pre-Development Runoff Data					
Peak Flow Rate = 0.017 cfs					
Total Runoff Volume = 223 cf					
l					
Yes Facility Sizing Mo	eets Flow Control S	Standards?			
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater Facility =	222 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	2.3 in	Total Overnow Volume			
Drawdown Time=	0.2 hours				
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?					

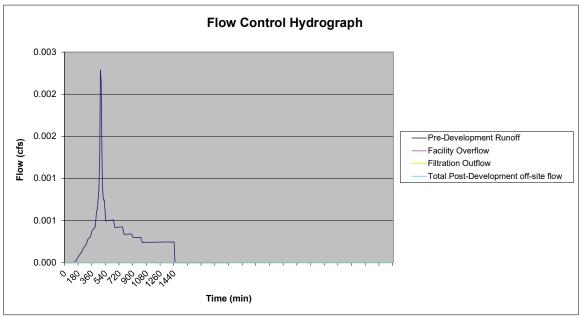
1/28/2021-6:32 AM 2

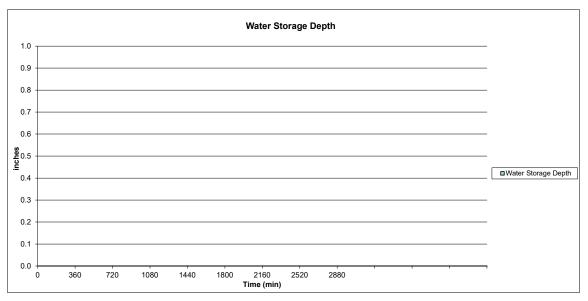
Project Name: Three Mile Prairie Permit Number: Catchment ID:

NA 3N

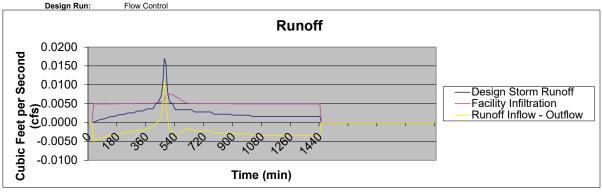
Design Run: Pollution Reduction

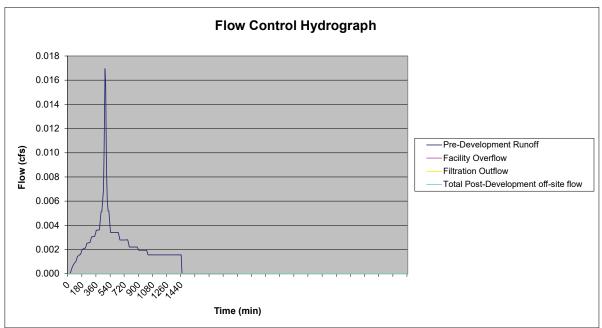


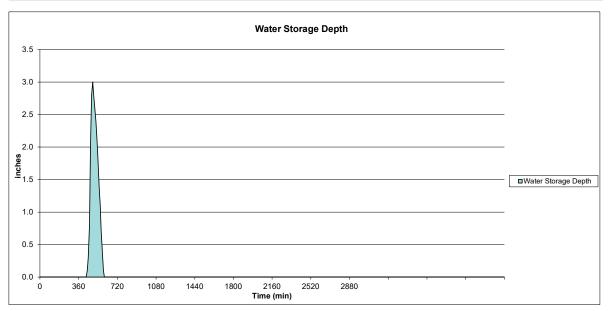




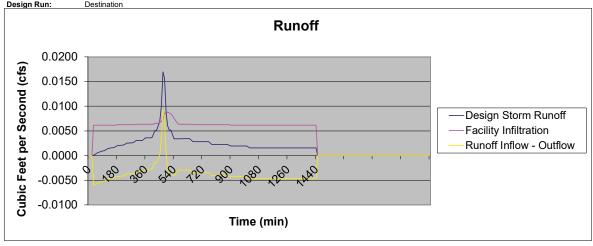
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3N
Design Run: Flow Control

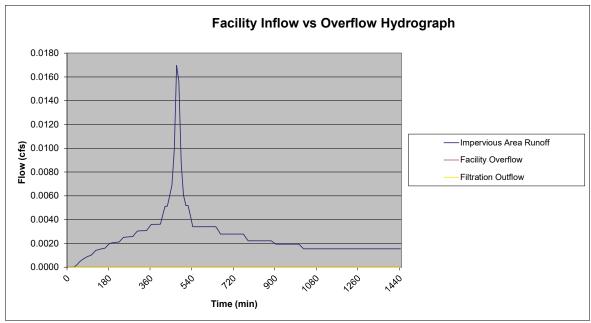


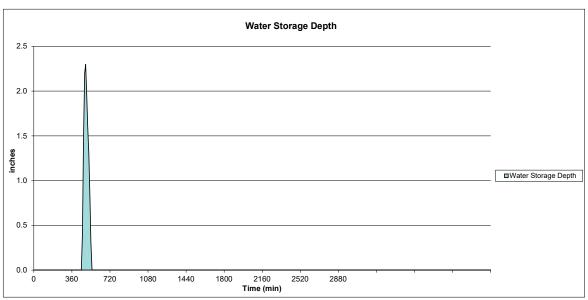




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3N
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie	Date: 12/30/2020			
Project Address:	18-12-15-00-00200	Permit Number: NA			
	Florence, OR	Catchment ID: 4A			
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Instructions:					
1. Complete this form fo	r each drainage catchment in the	project site that is to be sized per the Presumptive Approach.			
Provide a distinctive (calculations with the f		dinated with the site basin map to correlate the appropriate			
	•	he Presumptive Approach is 1 acre (43,560 SF)			
	-	filtration testing has been perfromed use an infiltration rate of 0.5 in/hr.			
		5 in/hr for topsoil/growing medium.			
Design Requirements					
Design Requirements					
Choose "Yes" from the	dropdown boxes below next to the	design standards requirements for this facility.			
Pollution Reducti	on (PR) Yes				
Flow Cont					
Destinat	· · ·	acility must be chosen as the facility type to meet destination requirements			
Destinat	ATTIMIDATION	admity must be dilosen as the fadmity type to meet destination requirements			
Site Data-Post Develor	oment				
Total Square Footes	a Importious Area 1609	sqft Total Square Footage Pervious Area= 0 sqft			
Total Square Footag					
Impervious Area CN= 98 Pervious Area CN= 85					
Total Square Footag	e of Drainage Area= 1698	sft Time of Concentration Post Development= 5 min			
-	ighted Average CN= 98	Sit Time of Concentration Fost Development -			
	<u> </u>				
Site Data-Pre Developi	ment (Data in this section is	s only used if Flow Control is required)			
Pr	e-Development CN= 98	Time of Concentration Pre-Development= 5 min			
Soil Data					
Tested S	oil Infiltration Rate= 10	in/hr (See Note 4) Destination Design= 5 in/hr			
Design S	oil Infiltration Rate= 4	in/hr Soil Infiltration Rate			
Design Storms Used F	or Calculations				
Requirement	Rainfall Depth Design Sto	rm			
Pollution Reduction	0.8 inches Water Quali				
Flow Control	5.1 inches Flood Contr				
Destination	5.1 inches Flood Contr				
Facility Data					
racility Data	Leu				
	Facility Type= Infiltration				
Surface Width= 11.7 ft Facility Surface Perimeter= 43.4 ft Surface Length= 10 ft Facility Bottom Area= 117 sqft					
_		· · · · · · · · · · · · · · · · · · ·			
	acility Side Slopes= 0 Ponding Depth	to 1 Facility Bottom Perimeter= 43 ft			
		in Basin Volume= 78.0 cf			
	Depth of Growing Medium (Soil)= 18 in Ratio of Facility Area to Impervious Area= 0.069				

1/28/2021-6:37 AM

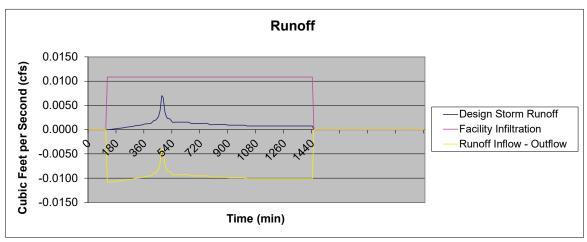
Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.007 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	89 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Me	eets Pollution Reduct	ion Standards?			
YES Meets Requ	irement of No Facility Flo	oding?			
YES Meets Requ	irement for Maximum of	18 Hour Drawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.015 cfs			
Total Runoff Volume to Stormwater					
Facility =	681 cf	Total Overflow Volume= 21 cf			
l I		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	8.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Pre-Development Runoff Data					
Peak Flow Rate =					
Total Runoff Volume = 682 cf					
Yes Facility Sizing Me	eets Flow Control Sta	ndards?			
YES Meets Requ					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater Facility =	681 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	7.9 in	Total Overnon Volume			
Drawdown Time=	0.2 hours				
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?					

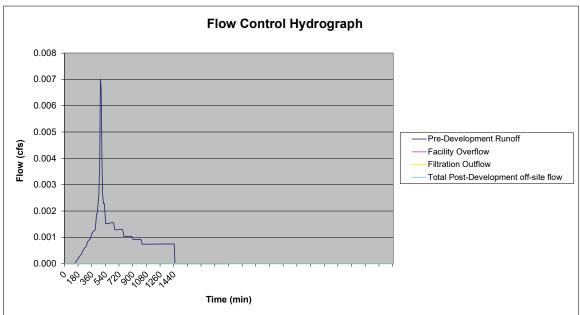
1/28/2021-6:37 AM 2

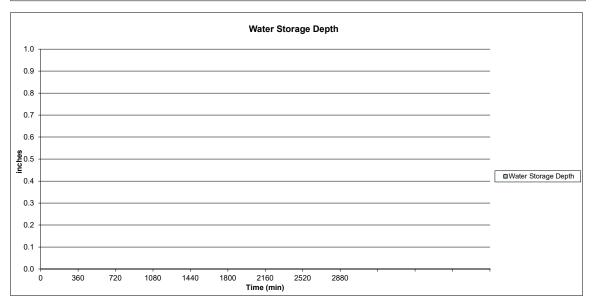
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 4A

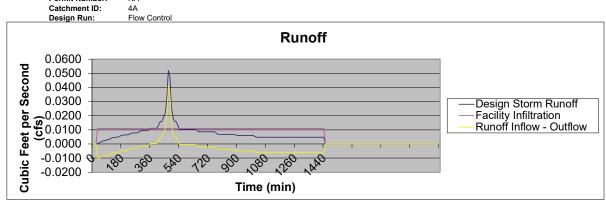
Design Run: Pollution Reduction

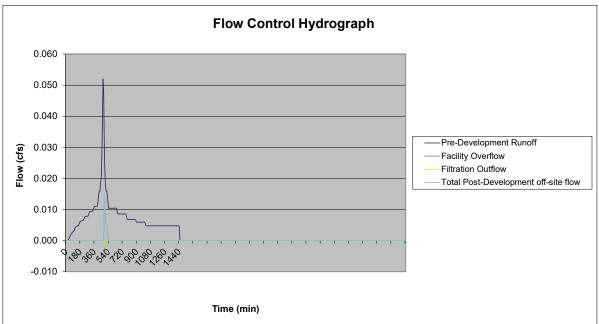


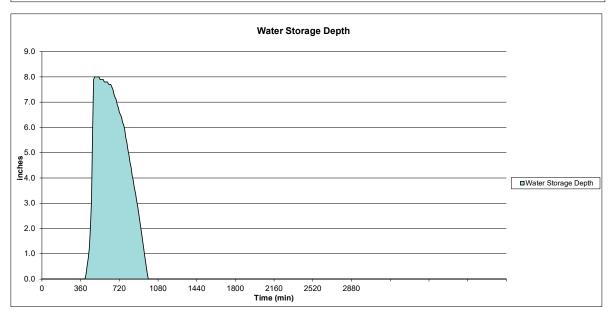




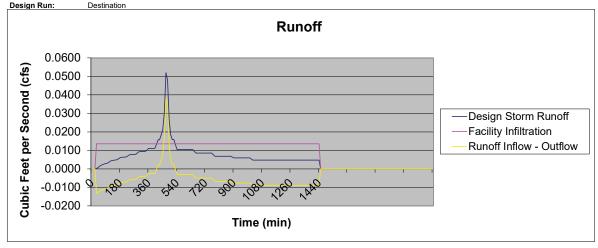
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4A

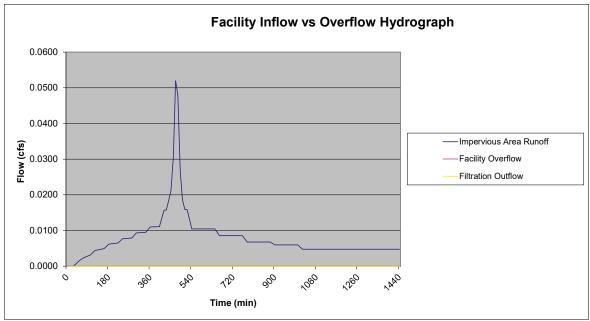


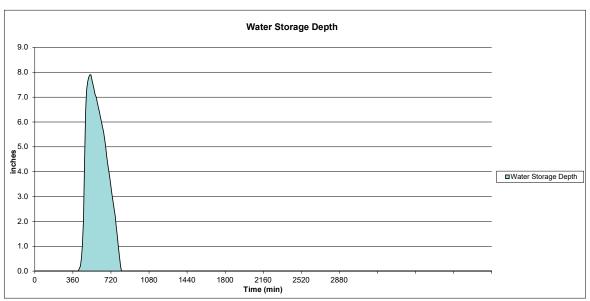




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4A
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie		Date: 12/30/2020		
Project Address:	18-12-15-00-00200		Permit Number: NA		
	Florence, OR		Catchment ID: 4B		
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Instructions:					
	r each drainage catch	ment in the project site that is to be	sized per the Presumptive Approach.		
	_	facility coordinated with the site bas			
calculations with the f		radinty coordinated with the site bac	map to correlate the appropriate		
	•	odeled per the Presumptive Approac	ch is 1 acre (43 560 SF)		
	-		n perfromed use an infiltration rate of 0.5	in/hr	
		ion rate of 2.5 in/hr for topsoil/growin	•		
Design Requirements		on rate of 2.0 mm for topooling.com	g modium.		
Design Requirements					
Choose "Yes" from the	dropdown boxes below	v next to the design standards requir	ements for this facility.		
		- -	•		
Pollution Reducti	on (PR) Yes				
Flow Cont	rol (FC) Yes				
Destinati	ion (DT) Yes	*An infiltration facility must be chosen as the f	acility type to meet destination requirements		
	` ′	·			
Site Data-Post Develop	oment				
Total Square Footag	e Impervious Area=	1695 sqft Tota	al Square Footage Pervious Area=	0 sqft	
Impervious Area CN= 98 Pervious Area CN= 85					
importious rasa en					
Total Square Footage of Drainage Area= 1695 sft Time of Concentration Post Development= 5 min					
Weighted Average CN= 98					
Site Data-Pre Developr		is section is only used if Flow Co	ntrol is required)		
	e-Development CN=	98 Time of	Concentration Pre-Development=	JIIIIII	
Soil Data	_				
	oil Infiltration Rate=	10 in/hr (See Note 4)	Destination Design=	5 in/hr	
Design S	oil Infiltration Rate=	4 in/hr	Soil Infiltration Rate		
Design Storms Used F	or Calculations				
Requirement	Rainfall Depth	Design Storm			
Pollution Reduction	 	Water Quality			
Flow Control		Flood Control			
Destination		Flood Control			
Facility Data	·				
,	Facility Type-	Infiltration Stormwater Planter	Facility Surface Area=	117 sqft	
	Surface Width=	11.7 ft	Facility Surface Perimeter=	43.4 ft	
	Surface Length=	10 ft	Facility Bottom Area=	117 sqft	
_	acility Side Slopes=	0 to 1	Facility Bottom Perimeter=	43 ft	
	Ponding Depth		acinty Bottom Fernineter-	4011	
	mwater Facility=	8 in	Basin Volume=	78.0 cf	

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Ratio of Facility Area to Impervious Area=

0.069

Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.007 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	88 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Me	ets Pollution Reduct	ion Standards?			
YES Meets Requ	irement of No Facility Flo	oding?			
YES Meets Requ	irement for Maximum of	18 Hour Drawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.015 cfs			
Total Runoff Volume to Stormwater					
Facility =	680 cf	Total Overflow Volume= 21 cf			
		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	8.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Pre-Development Runoff Data					
Peak Flow Rate = 0.052 cfs					
Total Runoff Volume = 681 cf					
Yes Facility Sizing Me	ets Flow Control Sta	ndards?			
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater Facility =	680 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	7.9 in	Total Overnow Volume-			
Drawdown Time=	0.2 hours				
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?					

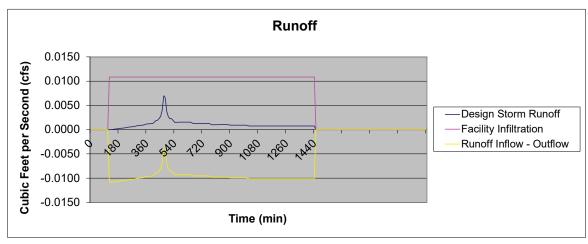
1/28/2021-6:38 AM 2

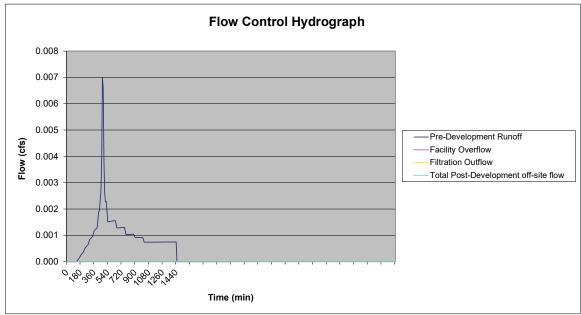
Project Name: Permit Number: Catchment ID: Design Run:

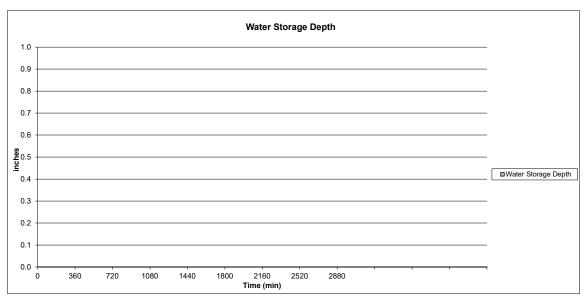
Three Mile Prairie

NA 4B

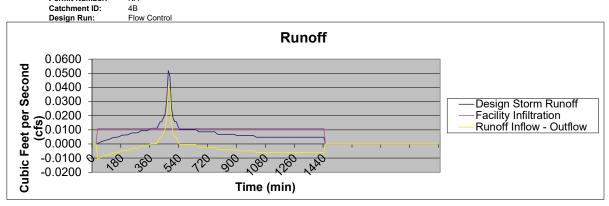
Pollution Reduction

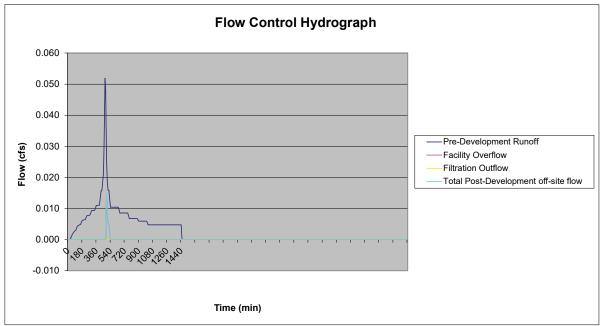


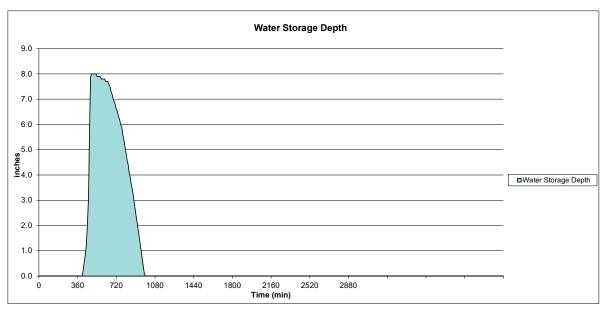




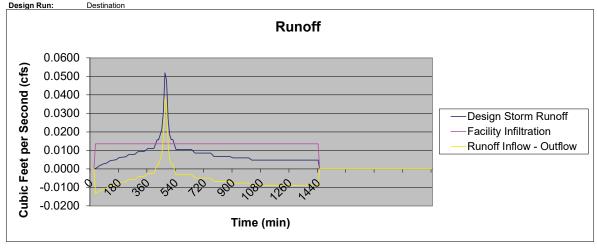
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4B

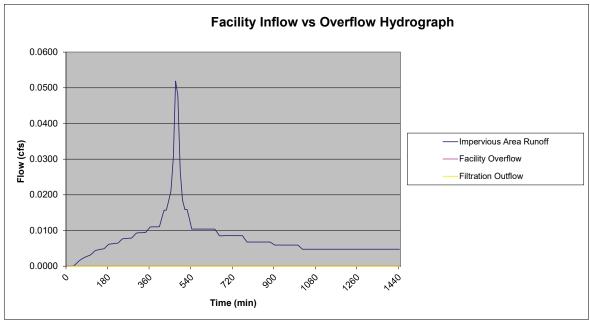


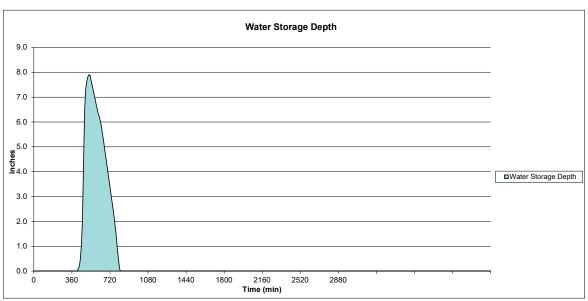




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4B
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1				
Project Information	Version 2.1				
Project Name:	Three Mile Prairie	Date: 12/30/2020			
Project Address:	18-12-15-00-00200	Permit Number: NA			
1 10,001 / 1001	Florence, OR	Catchment ID: 4C			
Designer:	Clint Beecroft	outsimism is:			
Company:	EGR & Associates				
,					
Instructions:					
1. Complete this form for	r each drainage catchment in the project sit	te that is to be sized per the Presumptive Approach.			
Provide a distinctive (calculations with the f		vith the site basin map to correlate the appropriate			
3. The maximum draina	ge catchment to be modeled per the Presur	nptive Approach is 1 acre (43,560 SF)			
4.For infiltration facilities	in Class A or B soils where no infiltration to	esting has been perfromed use an infiltration rate of 0.5 in/hr.			
For all facilities use a	maximum soil infiltration rate of 2.5 in/hr for	r topsoil/growing medium.			
Design Requirements	:				
Choose "Yes" from the	dropdown boxes below next to the design st	andards requirements for this facility.			
Pollution Reduct	ion (PR) Yes				
Flow Cont					
Destinat	` '				
Destinat	An inflitration facility must	be chosen as the facility type to meet destination requirements			
Site Data-Post Develor	oment				
		Total Square Footage Pervious Area= 0 sqft			
Impervious Area CN= 98 Pervious Area CN= 85					
Total Square Footag	e of Drainage Area= 2534 sft	Time of Concentration Post Development= 5 min			
	ighted Average CN= 98	Time of concentration i con poveropinent			
Site Data-Pre Develop		ed if Flow Control is required)			
•	·				
	e-Development CN= 98	Time of Concentration Pre-Development= 5 min			
Soil Data					
Tested S	oil Infiltration Rate= 10 in/hr (See	Note 4) Destination Design= 5 in/hr			
Design S	oil Infiltration Rate= 4 in/hr	Soil Infiltration Rate			
Design Storms Used F	or Calculations				
Requirement	Rainfall Depth Design Storm				
Pollution Reduction	0.8 inches Water Quality				
Flow Control	5.1 inches Flood Control				
Destination	5.1 inches Flood Control				
Facility Data					
· uomoj zuu	Facility Type= Infiltration Stormwa	ter Planter Facility Surface Area 254.1 sqft			
	Surface Width= 7.7 ft	Facility Surface Perimeter= 81.4 ft			
	Surface Length= 33 ft Facility Bottom Area= 141 sqft				
F	acility Side Slopes= 3 to 1	Facility Bottom Perimeter 69 ft			
	Ponding Depth	radinty Bottom i difficulti			
	in Stormwater Facility= 6 in Basin Volume= 101.0 cf				
Depth of Grov	Depth of Growing Medium (Soil)= 18 in Ratio of Facility Area to Impervious Area= 0.100				

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Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	132 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Mee	ets Pollution Reduction Stan	dards?			
YES Meets Requir	rement of No Facility Flooding?				
YES Meets Requir	rement for Maximum of 18 Hour D	rawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs			
Total Runoff Volume to Stormwater		,			
Facility =	1016 cf	Total Overflow Volume= 25 cf			
		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Pre-Development Runoff Data					
Peak Flow Rate = 0.078 cfs					
Total Runoff Volume = 1018 cf					
Yes Facility Sizing Mee	ets Flow Control Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater	1010	T. 1.0 . 11 . 11			
Facility =	1016 cf 5.8 in	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility= Drawdown Time=	0.2 hours				
Diawdowii Tillie- 0.2 lilouis					
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?					

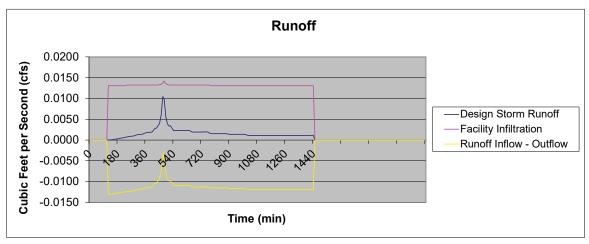
1/28/2021-6:40 AM 2

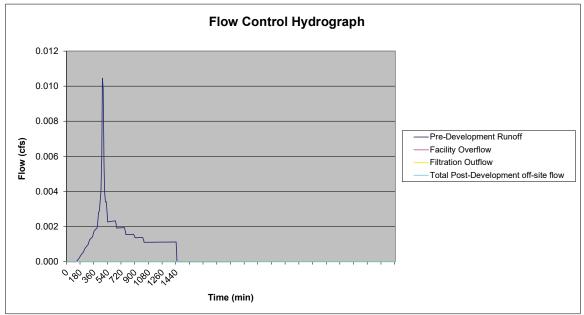
Project Name: Permit Number: Catchment ID: Design Run:

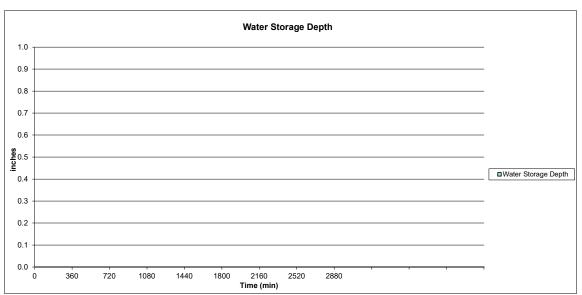
Three Mile Prairie

NA 4C

Pollution Reduction

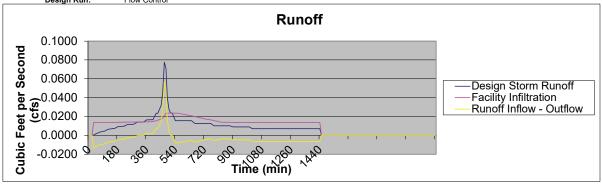


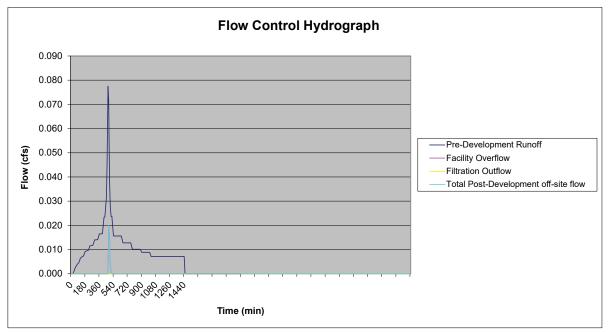


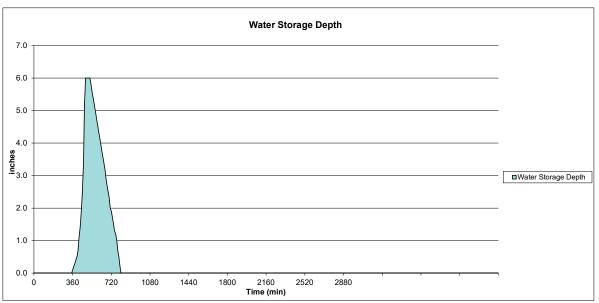


Project Name: Three Mile Prairie Permit Number:

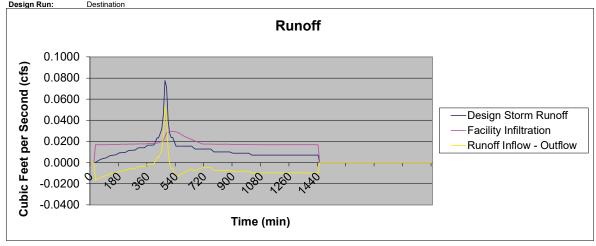
NA 4C Catchment ID: Design Run: Flow Control

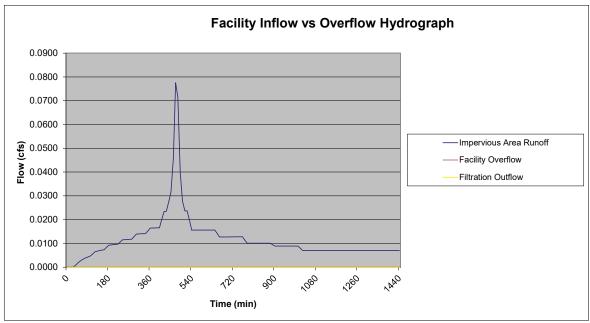


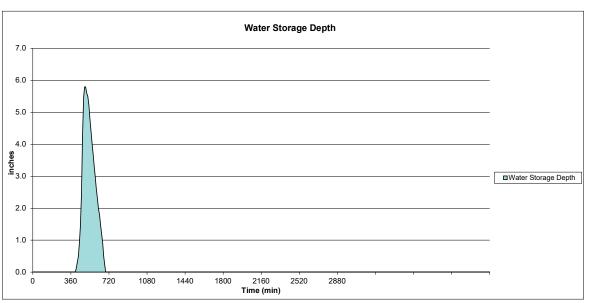




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4C
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Oity of Eugene				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie	Date: <u>12/30/2020</u>			
Project Address:	<u>18-12-15-00-00200</u>	Permit Number: <u>NA</u>			
	Florence, OR	Catchment ID: 4D			
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Provide a distinctive C calculations with the fa The maximum drainag For infiltration facilities For all facilities use a r Design Requirements:	atchment ID for each facility coordinated vacility. e catchment to be modeled per the Presurin Class A or B soils where no infiltration to maximum soil infiltration rate of 2.5 in/hr for ropdown boxes below next to the design ston (PR) Yes Tol (FC) Yes	esting has been perfromed use an infiltration rate of 0.5 in/hr. or topsoil/growing medium.			
	· /	be chosen as the facility type to meet destination requirements			
Site Data-Post Develop					
Total Square Footage	pervious Area CN= 98	Total Square Footage Pervious Area 0 sqft Pervious Area CN= 85 Time of Concentration Post Development= 5 min			
Site Data-Pre Developm	nent (Data in this section is only us	sed if Flow Control is required)			
	-Development CN= 98	Time of Concentration Pre-Development= 5 min			
Soil Data					
Design Sc	oil Infiltration Rate= 10 in/hr (See in/hr (See in/hr (See	Destination Design= 5 in/hr Soil Infiltration Rate			
Design Storms Used Fo	or Calculations				
Requirement	Rainfall Depth Design Storm				
Pollution Reduction	0.8 inches Water Quality				
Flow Control	5.1 inches Flood Control				
Destination	5.1 inches Flood Control				
Facility Data		_			
Facility Type= Infiltration Stormwater Planter Surface Width= 7.7 ft Facility Surface Perimeter= 81.4 ft Surface Length= 33 ft Facility Bottom Area= 141 sqft Facility Side Slopes= 3 to 1 Facility Bottom Perimeter= 69 ft Max. Ponding Depth in Stormwater Facility= 6 in Basin Volume= 101.0 cf					
Depth of Grow	Depth of Growing Medium (Soil)= 18 in Ratio of Facility Area to Impervious Area 0.100				

1/28/2021-6:41 AM

Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater					
Facility = 132 cf	Total Overflow Volume= 0 cf				
Max. Depth of Stormwater in Facility= 0.0 in					
Drawdown Time= 0.2 hours					
Yes Facility Sizing Meets Pollution Reduction	Standards?				
YES Meets Requirement of No Facility Flooding	ng?				
YES Meets Requirement for Maximum of 18 H	lour Drawdown Time?				
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs				
Total Runoff Volume to Stormwater	5020				
Facility = 1016 cf	Total Overflow Volume= 25 cf				
	Peak Off-Site Flow Rate				
Max. Depth of Stormwater in Facility= 6.0 in	Filtration Facility Underdrain= N\A cfs				
Drawdown Time= 0.2 hours					
Pre-Development Runoff Data Peak Flow Rate = 0.078 cfs Total Runoff Volume = 1018 cf					
Yes Facility Sizing Meets Flow Control Standa	ards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility = 0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs				
Total Runoff Volume to Stormwater	Total Overflow Values -				
Facility = 1016 cf Max. Depth of Stormwater in Facility= 5.8 in	Total Overflow Volume= 0 cf				
Drawdown Time= 0.2 hours					
Diawdowii filile- 0.2 liodis					
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?					

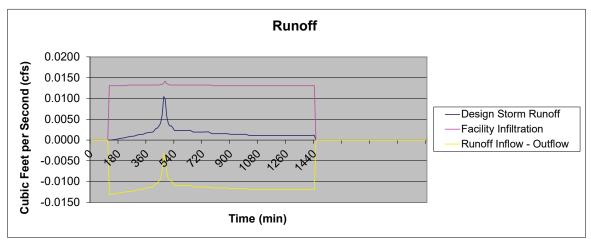
1/28/2021-6:41 AM 2

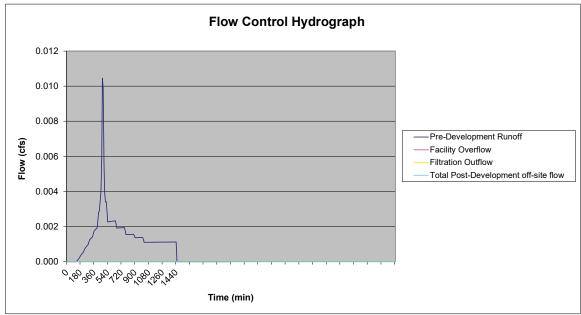
Project Name: Permit Number: Catchment ID: Design Run:

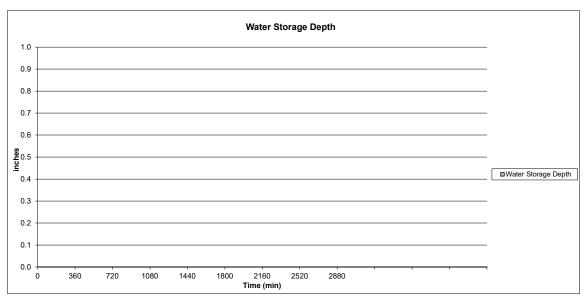
Three Mile Prairie

NA 4D

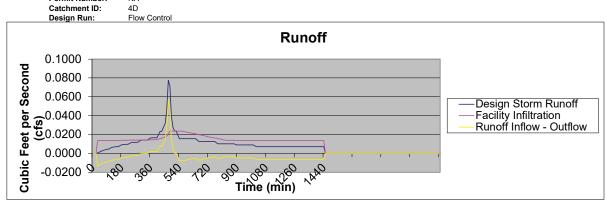
Pollution Reduction

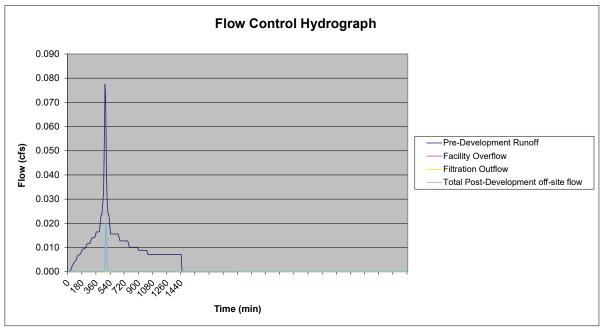


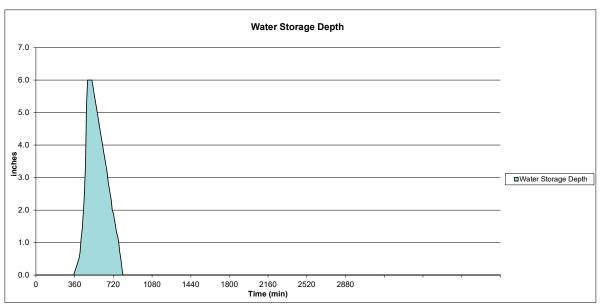




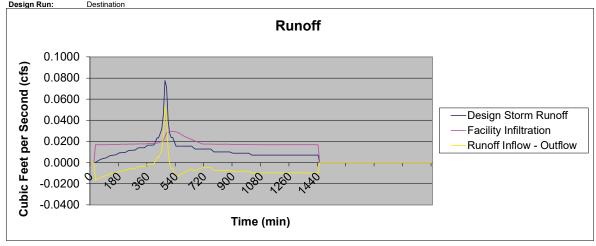
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4D

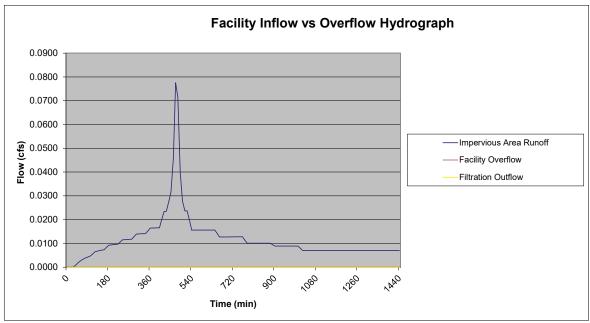


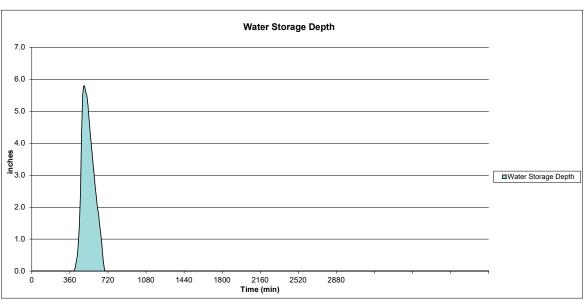




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4D
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie		Date:	12/30/2020	
Project Address:	18-12-15-00-00200		Permit Number:	<u>NA</u>	
	Florence, OR		Catchment ID:	<u>4E</u>	
Designer:	Clint Beecroft				
Company:	EGR & Associates				
Instructions:					
	each drainage catch	ment in the project site tha	t is to be sized per the Presum	intive Annroach	
•	-		e site basin map to correlate th		
calculations with the fa		riacinty coordinated with th	ic site basin map to correlate th	іс арріорії аіс	
	•	odeled her the Presumntive	e Approach is 1 acre (43,560 S	(F)	
-			has been perfromed use an in	•	5 in/hr
		ion rate of 2.5 in/hr for tops		illitation rate or o.	J 111/1111.
		Torrate or 2.5 in/in for tops			
Design Requirements:					
Choose "Yes" from the d	ropdown boxes belov	w next to the design standa	rds requirements for this facility	v.	
		· · · · · · · · · · · · · · · · · · ·		,-	
Pollution Reduction	on (PR) Yes				
Flow Contr	rol (FC) Yes				
Destination	` ′	*An infiltration facility must be cho	sen as the facility type to meet destinat	rion requirements	
200	(2 1)	, an anima due in identity index 20 one		ion roquironionio	
Site Data-Post Develop	ment				
Total Square Footage Impervious Area= 2534 sqft Total Square Footage Pervious Area= 0 sqft					
-	pervious Area CN=	98		ious Area CN=	85
Impervious Area on					
Total Square Footage	of Drainage Area=	2534 sft	Time of Concentration Post I	Development=	5 min
-	ghted Average CN=				
			Flour Combustic was suring all		
Site Data-Pre Developn	·		Flow Control is required)		
Pre	e-Development CN=	98	Time of Concentration Pre-L	Development=	5 min
Soil Data					
Tested So	oil Infiltration Rate=	10 in/hr (See Note 4	1) Destin	ation Design=	5 in/hr
Design So	oil Infiltration Rate=	4 in/hr	Soil In	nfiltration Rate	
Design Storms Used Fo	or Calculations				
Requirement	Rainfall Depth	Design Storm			
Pollution Reduction	0.8 inches	Water Quality			
Flow Control	5.1 inches	Flood Control			
Destination	5.1 inches	Flood Control			
Facility Data					
	Eacility Type=	Infiltration Stormwater P	lantor Easility	Surface Area-	254.1 caft
		7.7 ft		Surface Area=	254.1 sqft
	Surface Width=			ce Perimeter=	81.4 ft
-	Surface Length=	33 ft	_	Bottom Area=	141 sqft
	acility Side Slopes= Ponding Depth	3 to 1	Facility Botto	om Perimeter=	69 ft
	ronding Depth mwater Facility=	6 in	В	Basin Volume=	101.0 cf

1/28/2021-6:43 AM

Ratio of Facility Area to Impervious Area=

0.100

18 in

Depth of Growing Medium (Soil)=

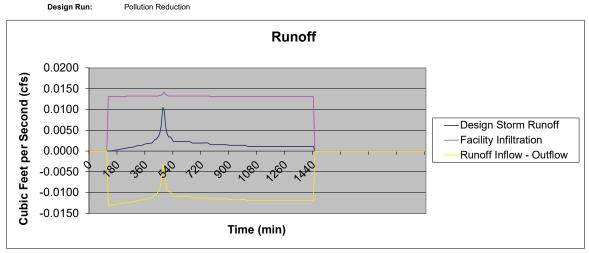
Pollution Reduction-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater					
Facility =	132 cf	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility=	0.0 in				
Drawdown Time=	0.2 hours				
Yes Facility Sizing Mee	ets Pollution Reduction Stan	dards?			
YES Meets Requir	rement of No Facility Flooding?				
YES Meets Requir	rement for Maximum of 18 Hour D	rawdown Time?			
Flow Control-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs			
Total Runoff Volume to Stormwater		,			
Facility =	1016 cf	Total Overflow Volume= 25 cf			
		Peak Off-Site Flow Rate			
Max. Depth of Stormwater in Facility=	6.0 in	Filtration Facility Underdrain= N\A cfs			
Drawdown Time=	0.2 hours				
Pre-Development Runoff Data					
Peak Flow Rate = 0.078 cfs					
Total Runoff Volume = 1018 cf					
Yes Facility Sizing Mee	ets Flow Control Standards?				
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?					
Destination-Calculation Results					
Peak Flow Rate to Stormwater Facility =	0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs			
Total Runoff Volume to Stormwater	1010	7.1.0 % 7.1			
Facility =	1016 cf 5.8 in	Total Overflow Volume= 0 cf			
Max. Depth of Stormwater in Facility= Drawdown Time=	0.2 hours				
Diawdowii Tillie- 0.2 lilouis					
Yes Facility Sizing Meets Destination Standards?					
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?					

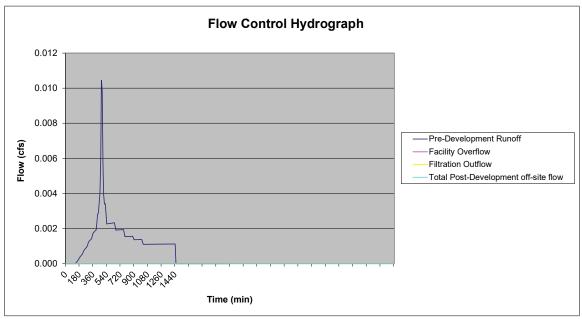
1/28/2021-6:43 AM 2

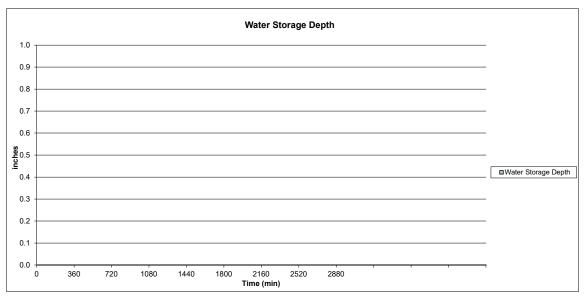
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 4E

Pollution Reduction

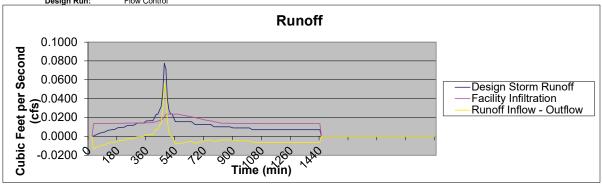


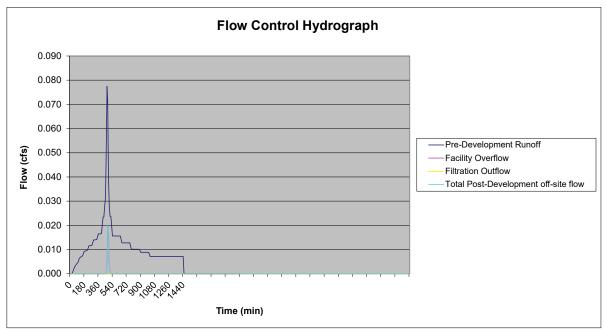


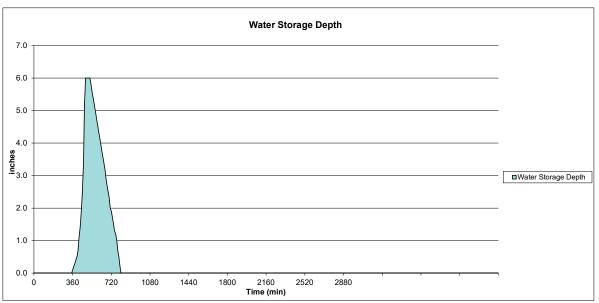


Project Name: Three Mile Prairie Permit Number: NA

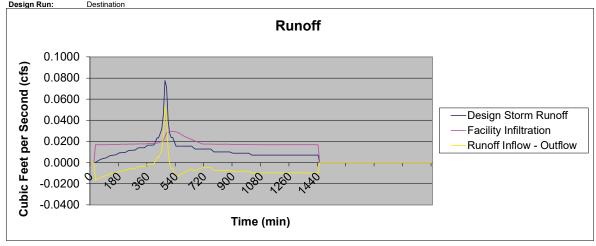
Catchment ID: 4E
Design Run: Flow Control

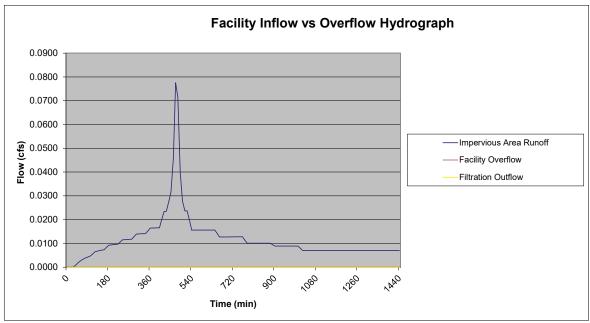


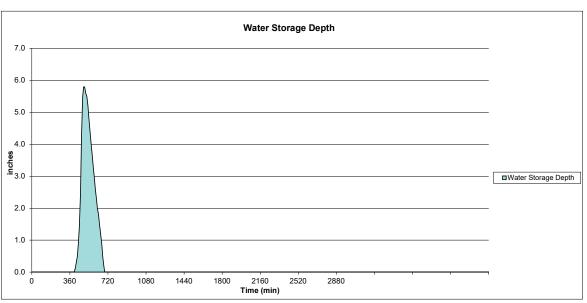




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4E
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Varaian 2.1		
Project Information	Version 2.1		
Project Name:	Three Mile Prairie	Date: 12/30/2020	
Project Address:	18-12-15-00-00200	Permit Number: NA	
. rojoot riaarooo.	Florence, OR	Catchment ID: 4F	
Designer:	Clint Beecroft	<u></u>	
Company:	EGR & Associates		
Instructions:			
1. Complete this form for	r each drainage catchment in the project s	site that is to be sized per the Presumptive Approach.	
2. Provide a distinctive C	Catchment ID for each facility coordinated	with the site basin map to correlate the appropriate	
calculations with the fa	acility.		
3. The maximum drainag	ge catchment to be modeled per the Presi	umptive Approach is 1 acre (43,560 SF)	
4.For infiltration facilities	in Class A or B soils where no infiltration	testing has been perfromed use an infiltration rate of 0.5 in/hr.	
For all facilities use a	maximum soil infiltration rate of 2.5 in/hr f	for topsoil/growing medium.	
Design Requirements:			
Choose "Yes" from the o	dropdown boxes below next to the design	standards requirements for this facility.	
Pollution Poducti	on (PP) Vos		
Pollution Reduction (PR) Yes Flow Control (FC) Yes			
	` '		
Destinati	on (DT) Yes *An infiltration facility mus	st be chosen as the facility type to meet destination requirements	
Site Data-Post Develop	ament .		
Total Square Footag		Total Square Footage Pervious Area=	
Im	npervious Area CN= 98	Pervious Area CN= 85	
Total Square Footage of Drainage Area 2534 sft Time of Concentration Post Development 5 min Weighted Average CN= 98			
Weighted Average CN= 98			
Site Data-Pre Developn	nent (Data in this section is only u	used if Flow Control is required)	
Pre	e-Development CN= 98	Time of Concentration Pre-Development= 5 min	
Soil Data			
	oil Infiltration Rate= 10 in/hr (Se	ee Note 4) Destination Design= 5 in/hr	
	oil Infiltration Rate= 4 in/hr	Soil Infiltration Rate	
Design Storms Used Fo			
Requirement	Rainfall Depth Design Storm		
Pollution Reduction	0.8 inches Water Quality		
Flow Control	5.1 inches Flood Control		
Destination	5.1 inches Flood Control		
Facility Data			
	Facility Type= Infiltration Stormy	vater Planter Facility Surface Area= 254.1 sqft	
	Surface Width= 7.7 ft	Facility Surface Perimeter= 81.4 ft	
Surface Length= 33 ft Facility Bottom Area= 141 sqft			
Facility Side Slopes= 3 to 1 Facility Bottom Perimeter= 69 ft			
Max. Ponding Depth			
in Stormwater Facility= 6 in Basin Volume= 101.0 cf			
Depth of Growing Medium (Soil)= 18 in Ratio of Facility Area to Impervious Area 0.100			

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Pollution Reduction-Calculation Results			
Peak Flow Rate to Stormwater Facility = 0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs		
Total Runoff Volume to Stormwater			
Facility = 132 cf	Total Overflow Volume= 0 cf		
Max. Depth of Stormwater in Facility= 0.0 in			
Drawdown Time= 0.2 hours			
Yes Facility Sizing Meets Pollution Reduction Standards?			
YES Meets Requirement of No Facility Flooding?			
YES Meets Requirement for Maximum of 18 Hour Drawdown Time?			
Flow Control-Calculation Results			
Peak Flow Rate to Stormwater Facility = 0.078 cfs	Peak Facility Overflow Rate= 0.020 cfs		
Total Runoff Volume to Stormwater	5355		
Facility = 1016 cf	Total Overflow Volume= 25 cf		
	Peak Off-Site Flow Rate		
Max. Depth of Stormwater in Facility= 6.0 in	Filtration Facility Underdrain= N\A cfs		
Drawdown Time= 0.2 hours			
Pre-Development Runoff Data Peak Flow Rate = 0.078 cfs Total Runoff Volume = 1018 cf			
Yes Facility Sizing Meets Flow Control Standards?			
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?			
Destination-Calculation Results			
Peak Flow Rate to Stormwater Facility = 0.078 cfs	Peak Facility Overflow Rate= 0.000 cfs		
Total Runoff Volume to Stormwater	Total Overflow Valumes 0 of		
Facility = 1016 cf Total Overflow Volume = 0 cf Max. Depth of Stormwater in Facility = 5.8 in			
Drawdown Time= 0.2 hours			
Diawdown Time 0.2 mours			
Yes Facility Sizing Meets Destination Standards?			
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?			

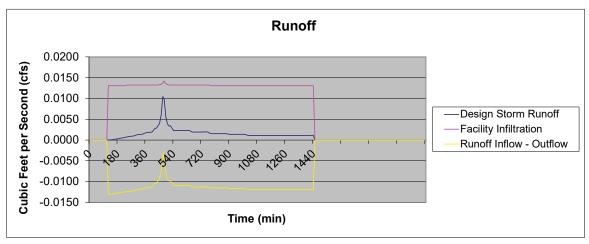
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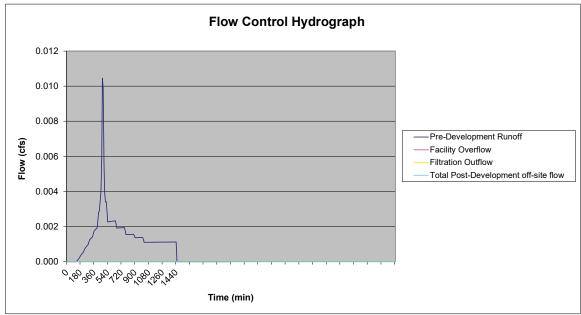
Project Name: Permit Number: Catchment ID: Design Run:

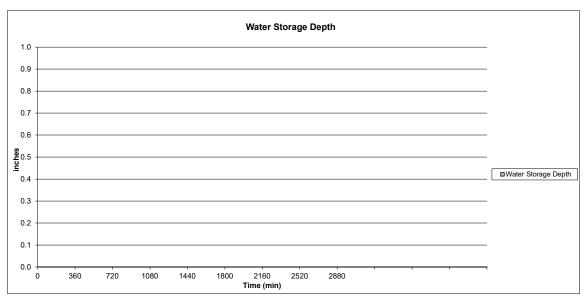
Three Mile Prairie

NA 4F

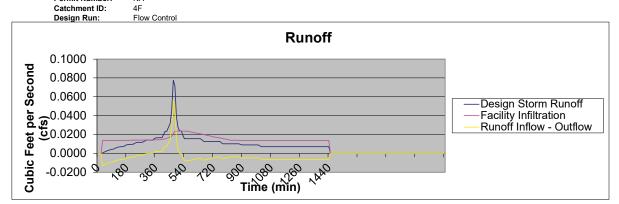
Pollution Reduction

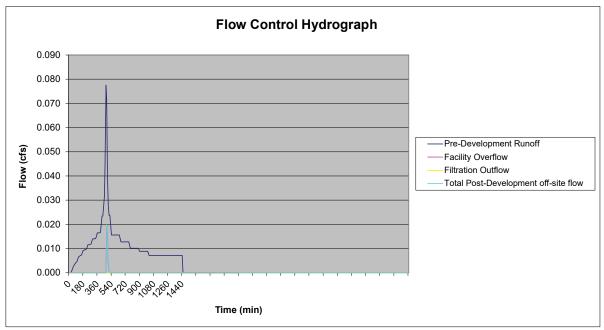


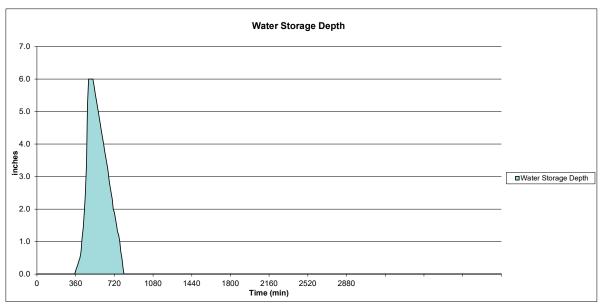




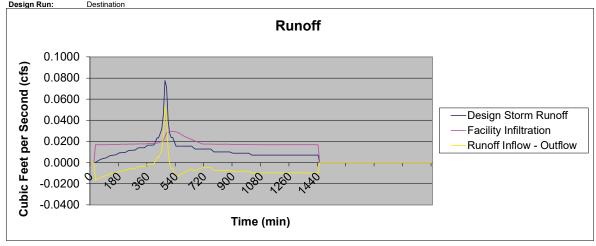
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4F

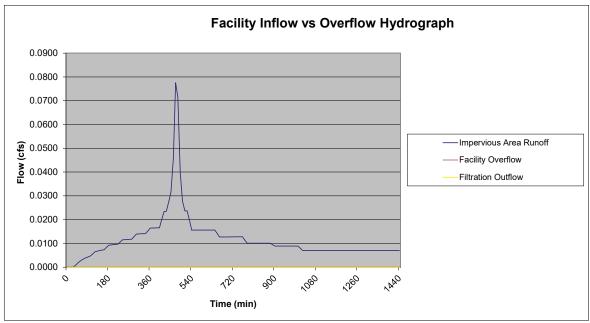


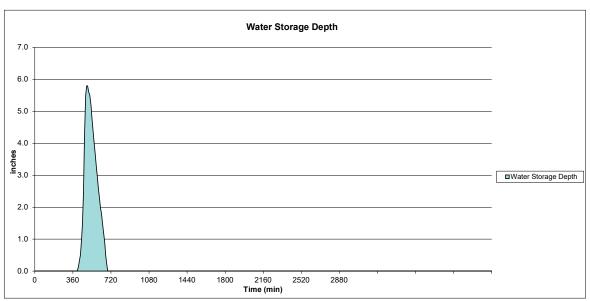




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4F
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	<u>NA</u>		
	Florence, OR			Catchment ID:	<u>4G</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
Instructions:							
1. Complete this form for	r each drainage catch	nment in the project site th	nat is to be size	d per the Presum	ptive Approach.		
•	Catchment ID for eacl	n facility coordinated with t					
	•	odeled per the Presumpti	ive Approach is	s 1 acre (43.560 S	F)		
		where no infiltration testing		·		0.5 in/hr.	
		tion rate of 2.5 in/hr for top	-				
Design Requirements:							
- Doorgin recognitionitor							
Choose "Yes" from the o	Iropdown boxes belo	w next to the design stand	dards requirem	ents for this facility	/.		
	(22)	•					
Pollution Reduction							
Flow Cont	rol (FC) Yes						
Destinati	on (DT) Yes	*An infiltration facility must be ch	hosen as the facilit	y type to meet destinati	on requirements		
Site Data-Post Develop	ment						
Total Square Footag	e Impervious Area=	2492 sqft	Total S	quare Footage Po	ervious Area=	0	sqft
-	npervious Area CN=			-	ous Area CN=	85	•
	•				•		
Total Square Footage	e of Drainage Area=	2492 sft	Time of Con	centration Post D	Development=	5	min
Wei	ghted Average CN=	98			•		
Site Data-Pre Developn	nent (Data in th	nis section is only used i	if Flow Contro	ol is required)			
-	e-Development CN=			ncentration Pre-D	Development=	5	min
	s-Development CN-	90	Tillie of Co	incentiation Fie-L	/evelopilient-		
Soil Data							
	oil Infiltration Rate=		e 4)		ation Design=	5	in/hr
Design Se	oil Infiltration Rate=	4 in/hr		Soil In	filtration Rate		
Design Storms Used Fo	or Calculations						
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction	0.8 inches	Water Quality					
Flow Control	5.1 inches	Flood Control					
Destination	5.1 inches	Flood Control					
Facility Data							
	Facility Type=	Infiltration Stormwater	Planter	Facility 9	Surface Area=	254.1	saft
	Surface Width=	7.7 ft		Facility Surface		81.4	•
	Surface Length=	33 ft		_	Bottom Area=	141	
F:	acility Side Slopes=			-	m Perimeter=	69	
	Ponding Depth						· ·
	mwater Facility=	6 in		В	asin Volume=	101.0	cf

1/28/2021-6:47 AM

Ratio of Facility Area to Impervious Area=

0.102

18 in

Depth of Growing Medium (Soil)=

Pollution Reduction-Calculation Results								
Peak Flow Rate to Stormwater Facility = 0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs							
Total Runoff Volume to Stormwater								
Facility = 130 cf	Total Overflow Volume= 0 cf							
Max. Depth of Stormwater in Facility= 0.0 in	170							
Diawdown Time 0.2 not	Drawdown Time= 0.2 hours							
Yes Facility Sizing Meets Pollution	on Reduction Standards?							
YES Meets Requirement of No	Facility Flooding?							
YES Meets Requirement for M	laximum of 18 Hour Drawdown Time?							
Flow Control-Calculation Results								
Peak Flow Rate to Stormwater Facility = 0.076 cfs	Peak Facility Overflow Rate= 0.016 cfs							
Total Runoff Volume to Stormwater								
Facility = 999 cf	Total Overflow Volume= 20 cf							
	Peak Off-Site Flow Rate							
Max. Depth of Stormwater in Facility= 6.0 in	Filtration Facility Underdrain= N\A cfs							
Drawdown Time= 0.2 hot	ırs							
Pre-Development Runoff Data								
Peak Flow Rate = 0.076 cfs								
Total Runoff Volume = 1002 cf								
Yes Facility Sizing Meets Flow C	ontrol Standards?							
Destination-Calculation Results								
Peak Flow Rate to Stormwater Facility = 0.076 cfs	Peak Facility Overflow Rate= 0.000 cfs							
Total Runoff Volume to Stormwater Facility = 999 cf	Total Overflow Volume= 0 cf							
Max. Depth of Stormwater in Facility 5.7 in	Total Overnow volume-							
Drawdown Time= 0.2 hou	urs							
Yes Facility Sizing Meets Destination Standards?								
YES Meets Requirement of No YES Meets Requirement for N	o Facility Flooding? laximum of 30 hour Drawdown Time?							
moto requirement for maximum of 50 flour prandown fillio:								

1/28/2021-6:47 AM 2

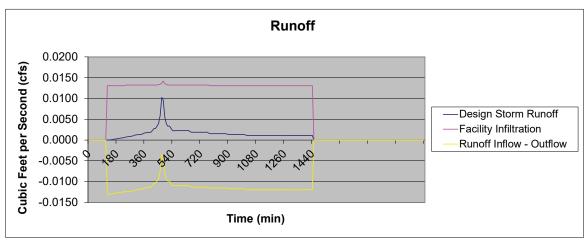
Project Name: Permit Number: Catchment ID:

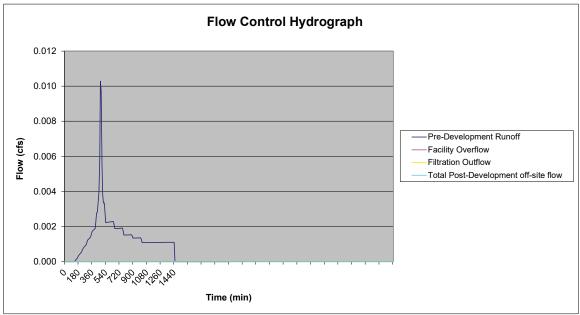
Design Run:

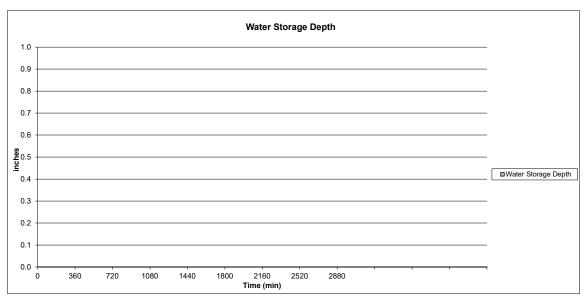
Three Mile Prairie

NA 4G

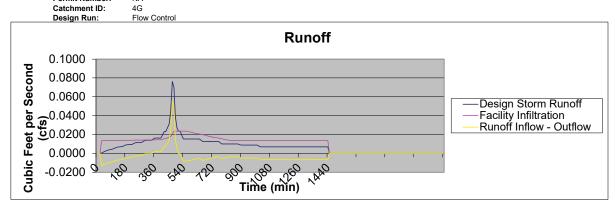
Pollution Reduction

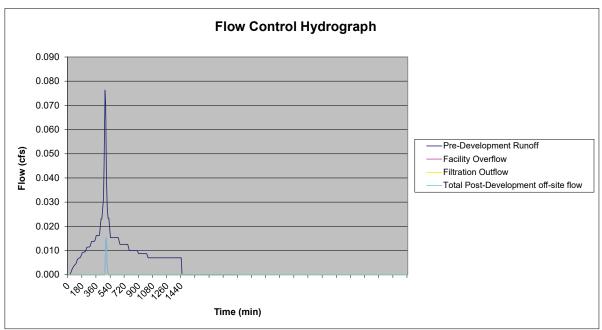


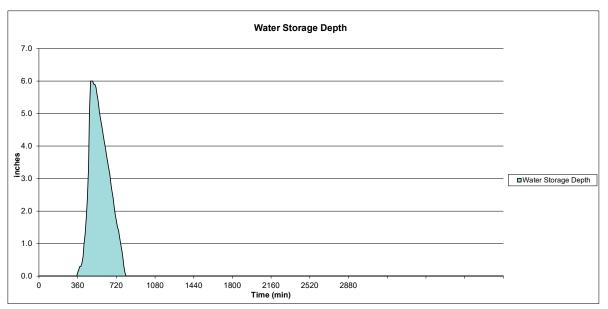




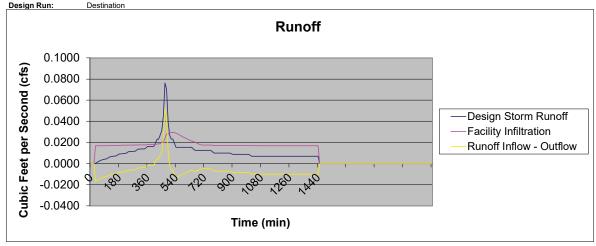
Project Name: Three Mile Prairie Permit Number: NA

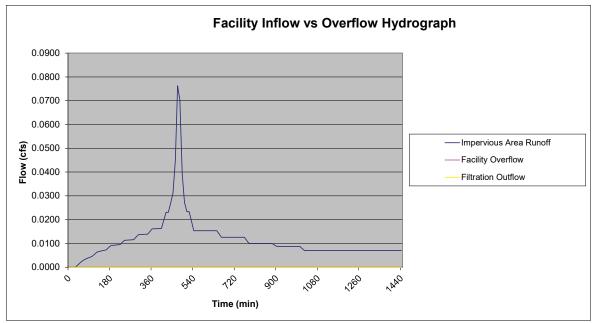


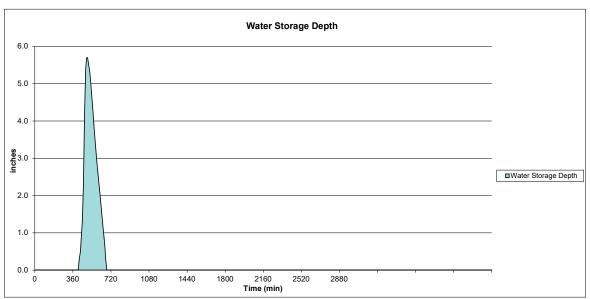




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4G
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	<u>NA</u>		
	Florence, OR			Catchment ID:	<u>4H</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
Instructions:							
1. Complete this form fo	r each drainage catch	ment in the project site t	that is to be size	ed per the Presum	ptive Approach.		
Provide a distinctive C calculations with the f		facility coordinated with	the site basin	map to correlate th	ne appropriate		
3. The maximum drainag	ge catchment to be m	odeled per the Presump	tive Approach i	s 1 acre (43,560 S	iF)		
4.For infiltration facilities					filtration rate of	0.5 in/hr.	
For all facilities use a	maximum soil infiltrat	ion rate of 2.5 in/hr for to	opsoil/growing r	nedium.			
Design Requirements:							
Choose "Yes" from the o	dropdown boxes below	v next to the design stan	idards requirem	ents for this facility	у.		
Pollution Reducti	on (PR) Yes	İ					
Flow Cont	` '						
Destinati	on (DT) Yes	*An infiltration facility must be	chosen as the facili	ty type to meet destinati	ion requirements		
Site Data-Post Develop	ment						
Total Square Footag	e Impervious Area=	2492 sqft	Total S	Square Footage P	ervious Area=	0	sqft
-	pervious Area CN=	98		-	ous Area CN=	85	- 4
Total Square Footag	_	2492 sft	Time of Cor	ncentration Post D	Development=	5	min
Wei	ghted Average CN=	98					
Site Data-Pre Developr	ment (Data in th	is section is only used	l if Flow Contro	ol is required)			
Pre	e-Development CN=	98	Time of Co	ncentration Pre-D	Development=	5	min
Soil Data							
Tested S	oil Infiltration Rate=	10 in/hr (See No	ote 4)	Destina	ation Design=	5	in/hr
Design S	oil Infiltration Rate=	4 in/hr		Soil In	filtration Rate		
Design Storms Used F	or Calculations						
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction	0.8 inches	Water Quality					
Flow Control	5.1 inches	Flood Control					
Destination	5.1 inches	Flood Control					
Facility Data							
	Facility Type=	Infiltration Stormwate	r Planter	Facility	Surface Area=	254.1	sqft
	Surface Width=	7.7 ft		-	ce Perimeter=	81.4	•
Surface Length= 33 ft Facility Bottom Area 141 sqft							
F	acility Side Slopes=	3 to 1		-	m Perimeter=	69	
	Ponding Depth			.,	· · · · · · · · ·		
in Star	mwater Facility=	Glip		D	asin Volumo-	101.0	of

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Ratio of Facility Area to Impervious Area=

0.102

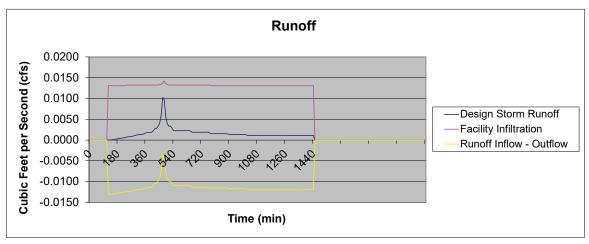
Pollution Reduction-Calculation Results								
Peak Flow Rate to Stormwater Facility = 0.010 cfs	Peak Facility Overflow Rate= 0.000 cfs							
Total Runoff Volume to Stormwater								
Facility = 130 cf	Total Overflow Volume= 0 cf							
Max. Depth of Stormwater in Facility= 0.0 in	170							
Diawdown Time 0.2 not	Drawdown Time= 0.2 hours							
Yes Facility Sizing Meets Pollution	on Reduction Standards?							
YES Meets Requirement of No	Facility Flooding?							
YES Meets Requirement for M	laximum of 18 Hour Drawdown Time?							
Flow Control-Calculation Results								
Peak Flow Rate to Stormwater Facility = 0.076 cfs	Peak Facility Overflow Rate= 0.016 cfs							
Total Runoff Volume to Stormwater								
Facility = 999 cf	Total Overflow Volume= 20 cf							
	Peak Off-Site Flow Rate							
Max. Depth of Stormwater in Facility= 6.0 in	Filtration Facility Underdrain= N\A cfs							
Drawdown Time= 0.2 hot	ırs							
Pre-Development Runoff Data								
Peak Flow Rate = 0.076 cfs								
Total Runoff Volume = 1002 cf								
Yes Facility Sizing Meets Flow C	ontrol Standards?							
Destination-Calculation Results								
Peak Flow Rate to Stormwater Facility = 0.076 cfs	Peak Facility Overflow Rate= 0.000 cfs							
Total Runoff Volume to Stormwater Facility = 999 cf	Total Overflow Volume= 0 cf							
Max. Depth of Stormwater in Facility 5.7 in	Total Overnow volume-							
Drawdown Time= 0.2 hou	urs							
Yes Facility Sizing Meets Destination Standards?								
YES Meets Requirement of No YES Meets Requirement for N	o Facility Flooding? laximum of 30 hour Drawdown Time?							
moto requirement for maximum of 50 flour prandown fillio:								

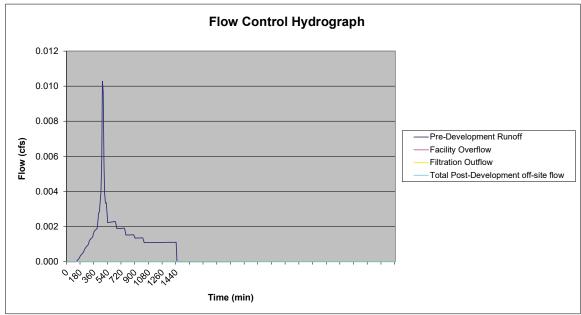
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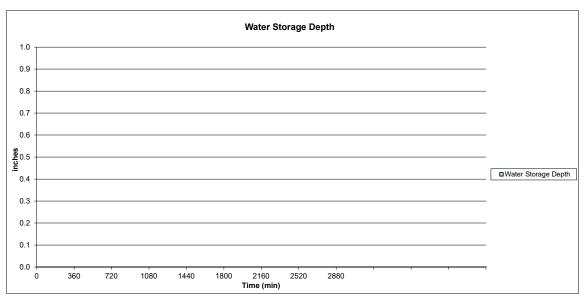
Project Name: Permit Number: Catchment ID: Three Mile Prairie NA 4H

Catchment ID: Design Run:

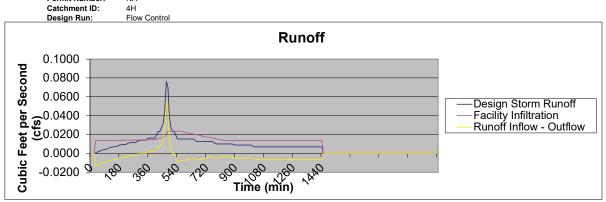
Pollution Reduction

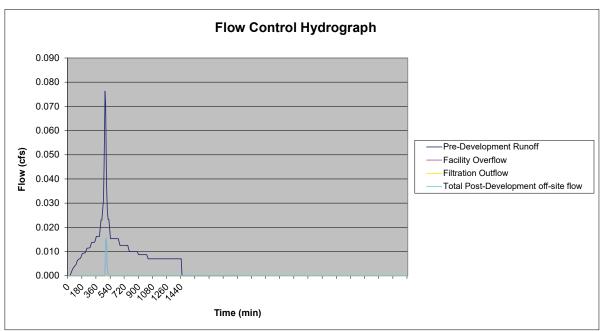


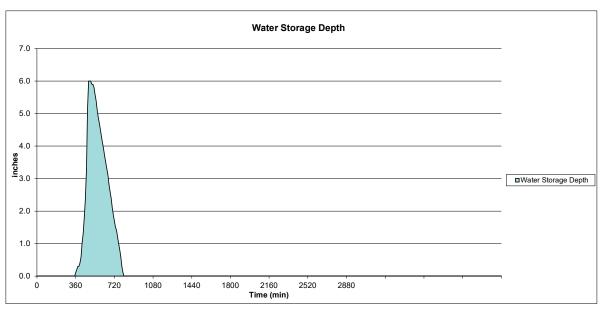




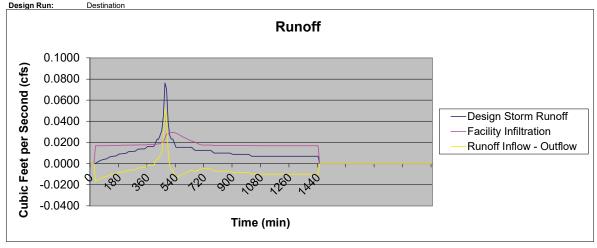
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4H

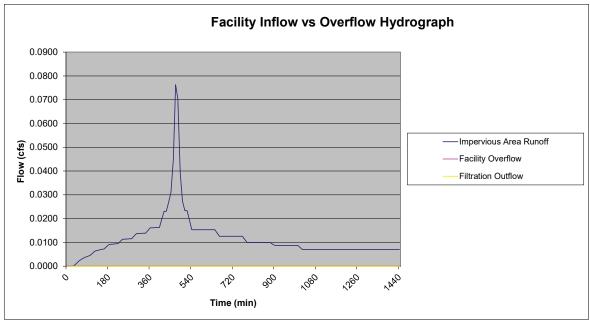


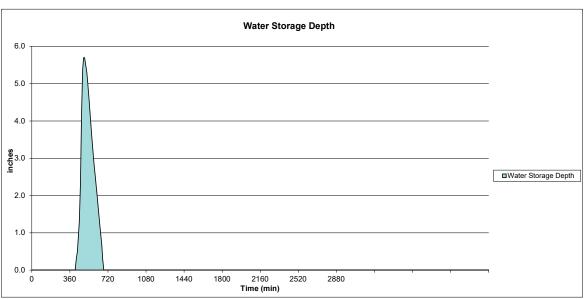




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4H
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	NA		
	Florence, OR			Catchment ID:	<u>41</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
	atchment ID for each acility. Je catchment to be m in Class A or B soils maximum soil infiltra	n facility coordinated with	h the site basin ptive Approach iting has been p	map to correlate the is 1 acre (43,560 Sperfromed use an ir	he appropriate		
Design Requirements:							
Choose "Yes" from the d	ropdown boxes belo	w next to the design star	ndards requirer	ments for this facilit	y.		
Pollution Reduction Flow Cont Destinati	rol (FC) Yes	*An infiltration facility must be	e chosen as the faci	ility type to meet destinat	tion requirements		
Site Data-Post Develop	ment						
Im Total Square Footage	Total Square Footage Impervious Area						
Wei	ghted Average CN=	98					
Site Data-Pre Developn	nent (Data in th	nis section is only used	d if Flow Cont	rol is required)			
	e-Development CN=	98	Time of C	oncentration Pre-l	Development=	5	min
Soil Data					_		
	oil Infiltration Rate= oil Infiltration Rate=		ote 4)		nation Design= nfiltration Rate	5	in/hr
Design Storms Used Fo	or Calculations						
Requirement	Rainfall Depth	Design Storm]				
Pollution Reduction	0.8 inches	Water Quality	1				
Flow Control	5.1 inches	Flood Control]				
Destination	5.1 inches	Flood Control					
Facility Data							
	Facility Type=	Infiltration Stormwate	er Planter	Facility	Surface Area=	64	sqft
	Surface Width=			_	ce Perimeter=	32.8	
	Surface Length= 10 ft Facility Bottom Area 64 sqft						
Fa	acility Side Slopes=			-	om Perimeter=	33	
	Ponding Depth			•, ••••			
in Stor	mwater Facility=	6 in		В	Basin Volume=	32.0	cf
Depth of Grow	ring Medium (Soil)=	18 in	Ratio of F	acility Area to Imp	ervious Area=	0.079	

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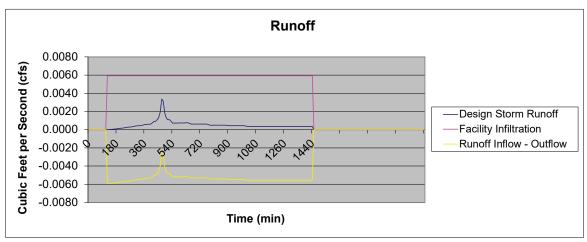
Pollution Reduction-Calculation Results						
Peak Flow Rate to Stormwater Facility = Total Runoff Volume to Stormwater	.003 cfs Peak Facility Overflow Rate= 0.000 cfs					
Facility =	42 cf Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	0.0 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Meets Pollution Reduction Standards?						
	ent of No Facility Flooding?					
YES Meets Requirem	ent for Maximum of 18 Hour Drawdown Time?					
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility =	.025 cfs Peak Facility Overflow Rate= 0.007 cfs					
Total Runoff Volume to Stormwater						
Facility =	326 cf Total Overflow Volume= 9 cf					
	Peak Off-Site Flow Rate					
Max. Depth of Stormwater in Facility=	6.0 in Filtration Facility Underdrain N\A cfs					
Drawdown Time=	0.2 hours					
Pre-Development Runoff	Data					
	0.025 cfs					
Total Runoff Volume =	326 cf					
Yes Facility Sizing Meets	Flow Control Standards?					
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility = Total Runoff Volume to Stormwater	.025 cfs Peak Facility Overflow Rate= 0.000 cfs					
Facility =	326 cf Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	5.8 in					
Drawdown Time=	0.2 hours					
Yes Facility Sizing Meets Destination Standards?						
	ent of No Facility Flooding? ent for Maximum of 30 hour Drawdown Time?					

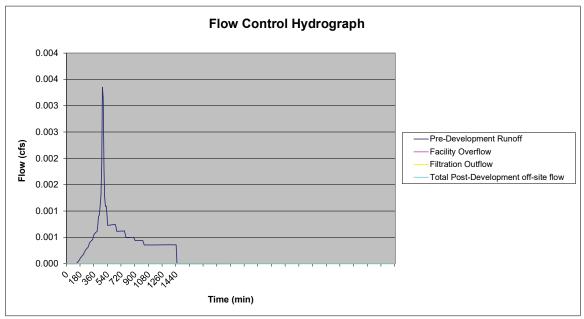
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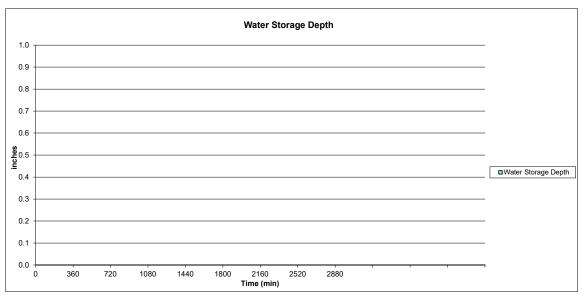
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 4l

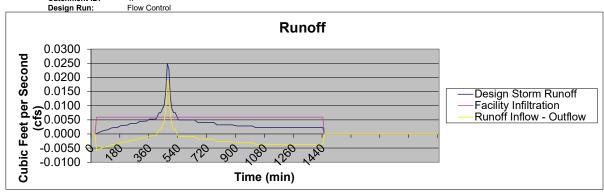
Design Run: Pollution Reduction

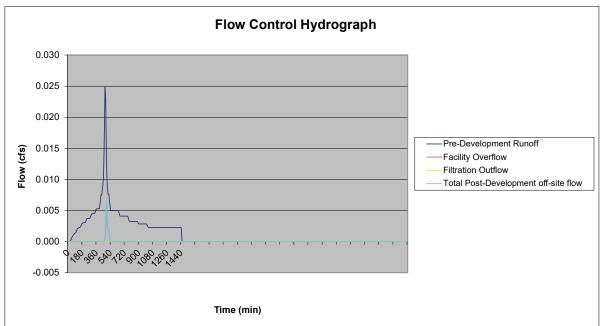


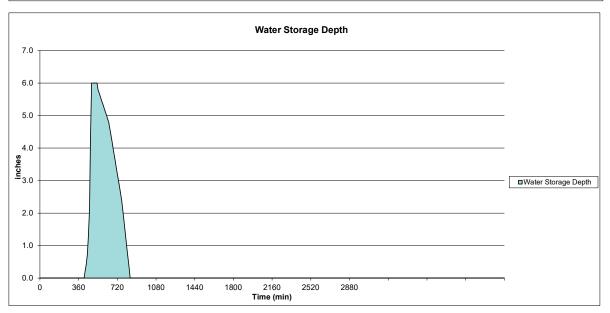




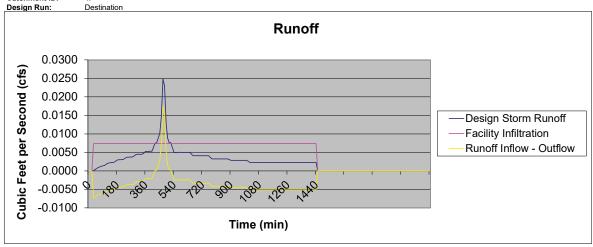
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 41
Design Run: Flow Control

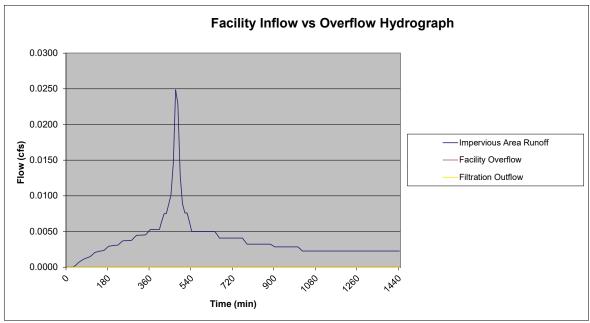


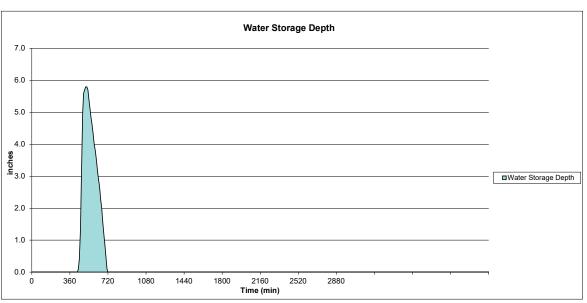




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4!
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1						
Project Information	version 2.1						
Project Name:	Three Mile Prairie	Date: 12/30/2020					
Project Address:	18-12-15-00-00200	Permit Number: NA					
110,000,7100,000	Florence, OR	Catchment ID: 4J					
Designer:	Clint Beecroft	outsimion is:					
Company:	EGR & Associates						
Instructions:							
1. Complete this form for	or each drainage catchment in the project sit	te that is to be sized per the Presumptive Approach.					
Provide a distinctive calculations with the		ith the site basin map to correlate the appropriate					
3. The maximum draina	ge catchment to be modeled per the Presur	mptive Approach is 1 acre (43,560 SF)					
4.For infiltration facilities	s in Class A or B soils where no infiltration to	esting has been perfromed use an infiltration rate of 0.5 in/hr.					
For all facilities use a	maximum soil infiltration rate of 2.5 in/hr for	r topsoil/growing medium.					
Design Requirements	:						
Choose "Yes" from the	dropdown boxes below next to the design st	andards requirements for this facility.					
Pollution Reduct	ion (PR) Yes						
Flow Con							
Destinat	` /						
Destinat	An infiltration facility must	be chosen as the facility type to meet destination requirements					
Site Data-Post Develo	pment						
Total Square Footag	ge Impervious Area= 807 sqft	Total Square Footage Pervious Area= 0 sqft					
-	mpervious Area CN= 98	Pervious Area CN= 85					
•	ilpervious Area CN-	reivious Alea Oit-					
Total Square Footag	ge of Drainage Area= 807 sft	Time of Concentration Post Development= 5 min					
	eighted Average CN= 98	Time of contamination is contaminating					
Site Data-Pre Develop	ment (Data in this section is only us	ed if Flow Control is required)					
·	re-Development CN= 98	Time of Concentration Pre-Development= 5 min					
	e-Development CN-	Time of Concentration Pre-Development					
Soil Data							
	Soil Infiltration Rate= 10 in/hr (See						
	Soil Infiltration Rate= 4 in/hr	Soil Infiltration Rate					
Design Storms Used F	or Calculations						
Requirement	Rainfall Depth Design Storm						
Pollution Reduction	0.8 inches Water Quality						
Flow Control	5.1 inches Flood Control						
Destination	5.1 inches Flood Control						
Facility Data							
	Facility Type= Infiltration Stormwa	ter Planter Facility Surface Area= 63 sqft					
	Surface Width= 6.3 ft	Facility Surface Perimeter= 32.6 ft					
	Surface Length= 10 ft Facility Bottom Area= 63 sqft						
F	Facility Side Slopes 0 to 1	Facility Bottom Perimeter= 33 ft					
Max.	Ponding Depth	-					
	rmwater Facility= 6 in	Basin Volume= 31.5 cf					
Depth of Grov	wing Medium (Soil)= 18 in	Ratio of Facility Area to Impervious Area= 0.078					

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Pollution Reduction-Calculation Results								
Peak Flow Rate to Stormwater Facility = 0.0	Grant Grant							
Total Runoff Volume to Stormwater								
	2 cf Total Overflow Volume= 0 cf							
	.0 in							
Drawdown Time=	Drawdown Time= 0.2 hours							
Yes Facility Sizing Meets Po	Yes Facility Sizing Meets Pollution Reduction Standards?							
YES Meets Requirement	of No Facility Flooding?							
YES Meets Requirement	for Maximum of 18 Hour Drawdown Time?							
Flow Control-Calculation Results								
Peak Flow Rate to Stormwater Facility = 0.00	25 cfs Peak Facility Overflow Rate= 0.007 cfs							
Total Runoff Volume to Stormwater	1 ·							
Facility = 3	24 cf Total Overflow Volume= 10 cf							
	Peak Off-Site Flow Rate							
	0 in Filtration Facility Underdrain= N\A cfs							
Drawdown Time= 0	.2 hours							
Pre-Development Runoff Da	ta.							
	<u>ua</u> 25 Icfs							
	44 cf							
Yes Facility Sizing Meets Fl	ow Control Standards?							
YES Meets Requirement	for Post Development offsite flow less or equal to Pre-Development Flow? for Maximum of 18 Hour Drawdown Time?							
Destination-Calculation Results								
	25 cfs Peak Facility Overflow Rate= 0.000 cfs							
Total Runoff Volume to Stormwater	T. 12 # W.							
	24 cf Total Overflow Volume= 0 cf							
	2 hours							
Diawdown Time-	.z nouis							
Yes Facility Sizing Meets Destination Standards?								
	of No Facility Flooding? for Maximum of 30 hour Drawdown Time?							

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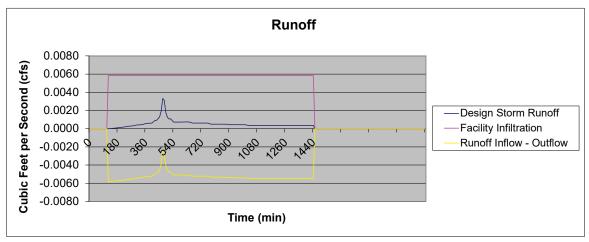
Project Name: Permit Number: Catchment ID:

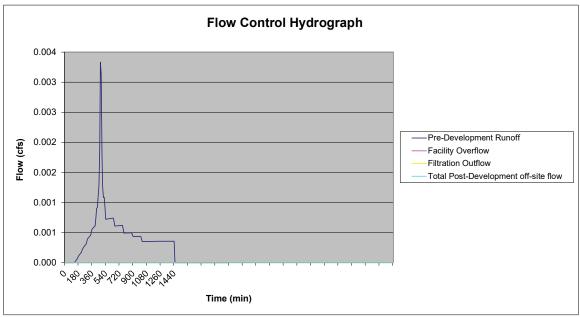
Design Run:

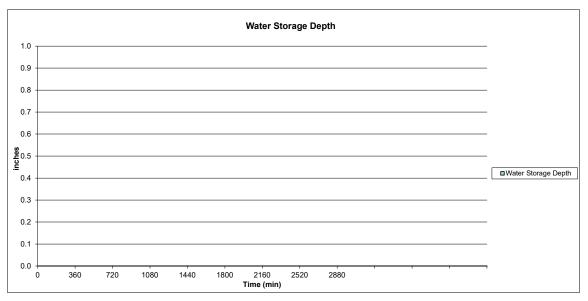
Three Mile Prairie

NA 4J

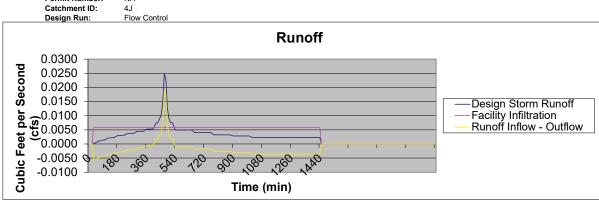
Pollution Reduction

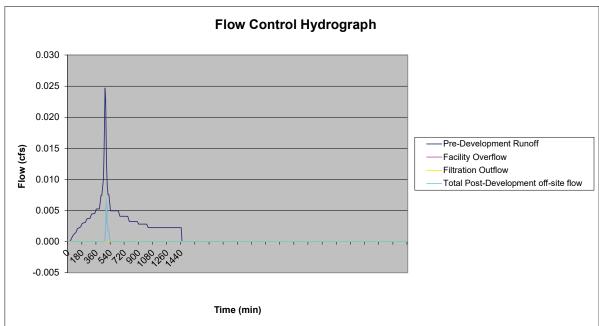


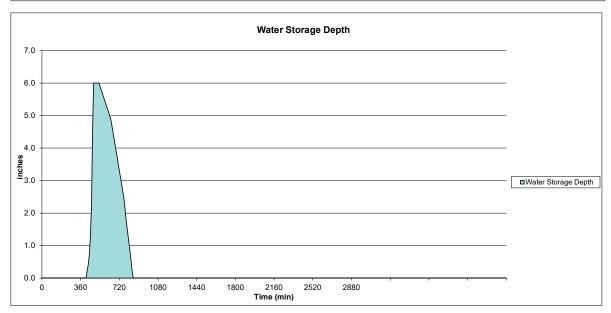




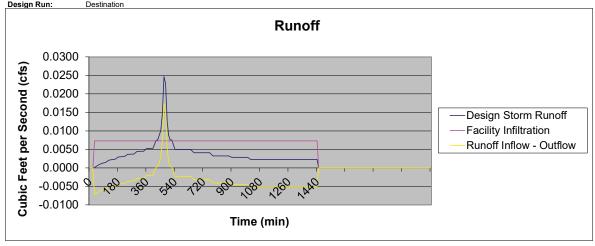
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4J

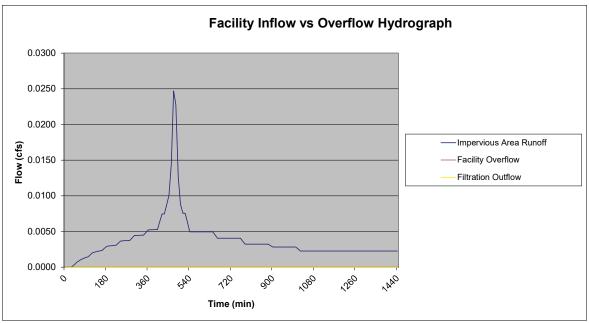


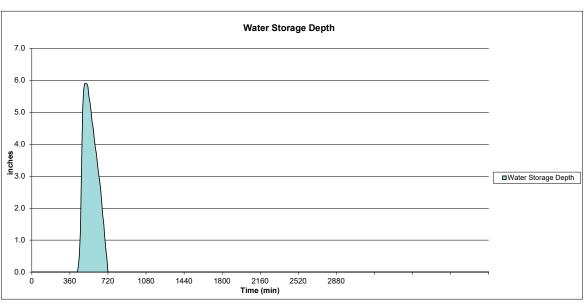




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4J
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie				12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	<u>NA</u>		
	Florence, OR			Catchment ID:	<u>4K</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
	atchment ID for eac acility. Je catchment to be n in Class A or B soils maximum soil infiltra	h facility coordinated with	h the site basin ptive Approach iting has been p	map to correlate the is 1 acre (43,560 Sperfromed use an ir	ne appropriate		
Design Requirements:							
Choose "Yes" from the d	ropdown boxes belo	w next to the design star	ndards requirer	nents for this facility	y.		
Pollution Reduction Flow Cont Destinati	rol (FC) Yes	*An infiltration facility must be	e chosen as the faci	lity type to meet destinat	ion requirements		
Site Data-Post Develop	ment						
Total Square Footage	pervious Area CN= of Drainage Area=	98 1698 sft		Square Footage P Pervi ncentration Post I	ous Area CN=	85	sqft min
Wei	ghted Average CN=	98					
Site Data-Pre Developn	nent (Data in t	his section is only used	d if Flow Cont	rol is required)			
	e-Development CN=	98	Time of C	oncentration Pre-I	Development=	5	min
Soil Data							
	oil Infiltration Rate= oil Infiltration Rate=		ote 4)		ation Design= nfiltration Rate	5	in/hr
Design Storms Used Fo	or Calculations						
Requirement	Rainfall Depth	Design Storm]				
Pollution Reduction	0.8 inches	Water Quality	1				
Flow Control	5.1 inches	Flood Control	1				
Destination	5.1 inches	Flood Control]				
Facility Data							
	Facility Type=	Infiltration Stormwate	er Planter	Facility	Surface Area=	117	saft
	Surface Width=			-	ce Perimeter=	43.4	
	Surface Length= 10 ft Facility Bottom Area= 117 sqft						
Fa	acility Side Slopes=			-	m Perimeter=	43	
	Ponding Depth			•			
	mwater Facility=	8 in			asin Volume=	78.0	cf
Depth of Grow	ing Medium (Soil)=	18 in	Ratio of F	acility Area to Imp	ervious Area=	0.069	

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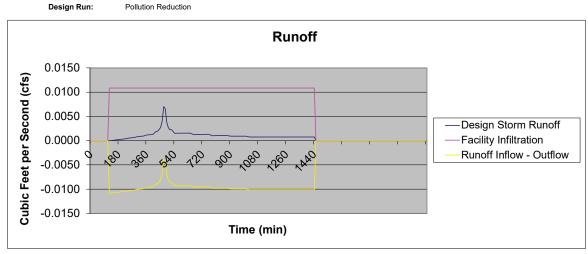
Pollution Reduction-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.007 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater							
Facility =	89 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	0.0 in						
Drawdown Time= 0.2 hours							
Yes Facility Sizing Me	Yes Facility Sizing Meets Pollution Reduction Standards?						
YES Meets Requ	irement of No Facility Flo	oding?					
YES Meets Requ	irement for Maximum of	18 Hour Drawdown Time?					
Flow Control-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.015 cfs					
Total Runoff Volume to Stormwater							
Facility =	681 cf	Total Overflow Volume= 21 cf					
l I		Peak Off-Site Flow Rate					
Max. Depth of Stormwater in Facility=	8.0 in	Filtration Facility Underdrain= N\A cfs					
Drawdown Time=	0.2 hours						
Pre-Development Ru	inoff Data						
Peak Flow Rate =	0.052 cfs						
Total Runoff Volume =	682 cf						
Yes Facility Sizing Me	eets Flow Control Sta	ndards?					
YES Meets Requ							
Destination-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater Facility =	681 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	7.9 in	Total Overnon Volume					
Drawdown Time=	0.2 hours						
-							
Yes Facility Sizing Meets Destination Standards?							
	irement of No Facility Flo irement for Maximum of 3	oding? 30 hour Drawdown Time?					

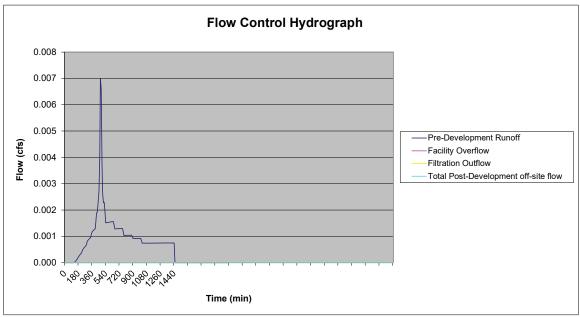
1/28/2021-6:58 AM 2

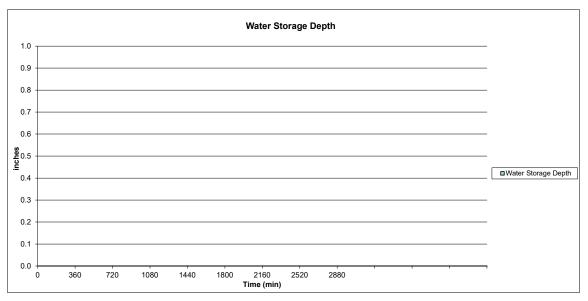
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 4K

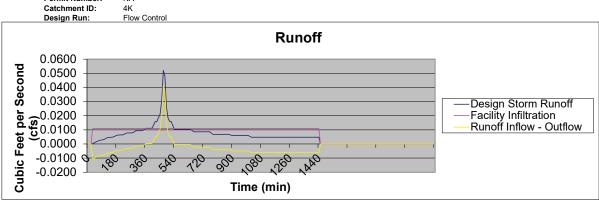
Pollution Reduction

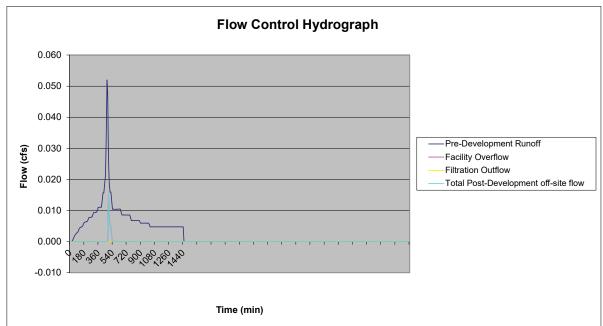


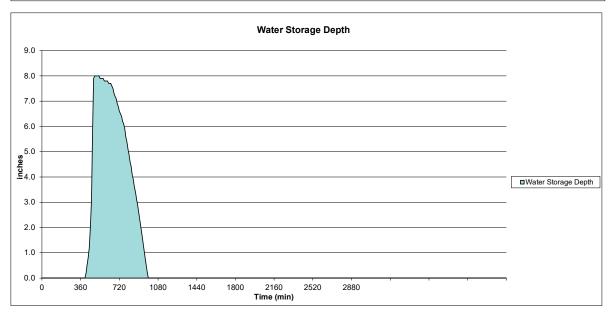




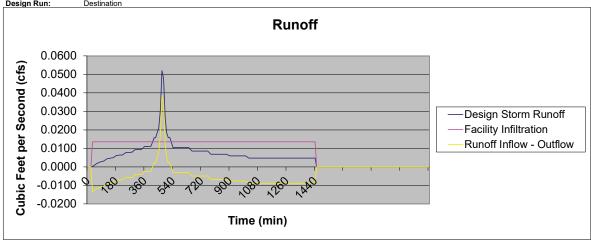
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4K

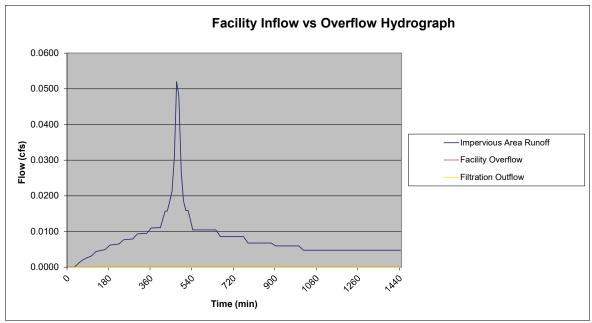


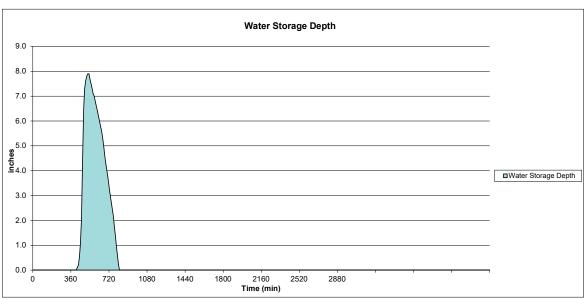




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4K
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

LUGENE	City of Eugene				
	Version 2.1				
Project Information					
Project Name:	Three Mile Prairie		Date	e: <u>12/30/2020</u>	
Project Address:	18-12-15-00-00200		Permit Number	": <u>NA</u>	
	Florence, OR		Catchment ID:	4L	
Designer:	Clint Beecroft				
Company:	EGR & Associates				
 Provide a distinctive C calculations with the fa The maximum drainag For infiltration facilities For all facilities use a 	catchment ID for each acility. ge catchment to be mo in Class A or B soils	facility coordinated with the	is to be sized per the Presure site basin map to correlate to Approach is 1 acre (43,560 shas been perfromed use an ibil/growing medium.	the appropriate	/hr.
Design Requirements:					
Choose "Yes" from the d Pollution Reduction Flow Conti	on (PR) Yes rol (FC) Yes		ds requirements for this facili		
Site Data-Post Develop	ment				
Total Square Footage	pervious Area CN=	1695 98 1695 98	Total Square Footage I Perv Time of Concentration Post	vious Area CN=	0 85 5 min
Site Data-Pre Developn	nent (Data in th	is section is only used if I	Flow Control is required)		
•	e-Development CN=		Time of Concentration Pre-	-Development=	5 min
Soil Data					
	oil Infiltration Rate= oil Infiltration Rate=	10 in/hr (See Note 4) 4 in/hr		nation Design= nfiltration Rate	5 in/hr
Design Storms Used Fo	or Calculations				
Requirement	Rainfall Depth	Design Storm			
Pollution Reduction	0.8 inches	Water Quality			
Flow Control	5.1 inches	Flood Control			
Destination	5.1 inches	Flood Control			
Facility Data					
r domity Data				- · · ·	447 0
		Infiltration Stormwater PI		Surface Area=	117 sqft
	Surface Width=	11.7 ft	_	ace Perimeter=	43.4 ft
_	Surface Length=	10 ft	-	/ Bottom Area=	117 sqft
	acility Side Slopes=	0 to 1	Facility Bott	tom Perimeter=	43 ft
	Ponding Depth mwater Facility=	8 in	1	Basin Volume=	78.0 cf

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Ratio of Facility Area to Impervious Area=

0.069

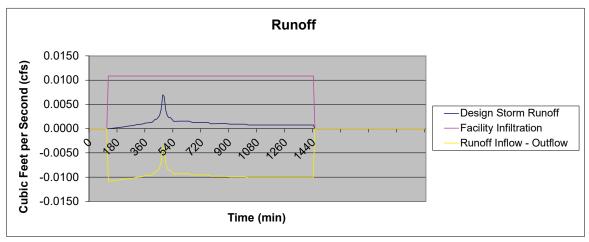
Pollution Reduction-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.007 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater							
Facility =	88 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	0.0 in						
Drawdown Time= 0.2 hours							
Yes Facility Sizing Me	Yes Facility Sizing Meets Pollution Reduction Standards?						
YES Meets Requ	irement of No Facility Flo	oding?					
YES Meets Requ	irement for Maximum of	18 Hour Drawdown Time?					
Flow Control-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.015 cfs					
Total Runoff Volume to Stormwater							
Facility =	680 cf	Total Overflow Volume= 21 cf					
		Peak Off-Site Flow Rate					
Max. Depth of Stormwater in Facility=	8.0 in	Filtration Facility Underdrain= N\A cfs					
Drawdown Time=	0.2 hours						
Pre-Development Ru	noff Data						
Peak Flow Rate =	0.052 cfs						
Total Runoff Volume =	681 cf						
Yes Facility Sizing Me	ets Flow Control Sta	ndards?					
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?							
Destination-Calculation Results							
Peak Flow Rate to Stormwater Facility =	0.052 cfs	Peak Facility Overflow Rate= 0.000 cfs					
Total Runoff Volume to Stormwater Facility =	680 cf	Total Overflow Volume= 0 cf					
Max. Depth of Stormwater in Facility=	7.9 in	Total Overnow Volume-					
Drawdown Time=	0.2 hours						
_							
Yes Facility Sizing Meets Destination Standards?							
	irement of No Facility Flo irement for Maximum of	ooding? 30 hour Drawdown Time?					

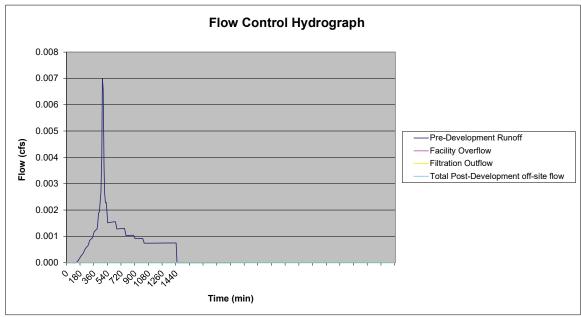
1/28/2021-6:59 AM 2

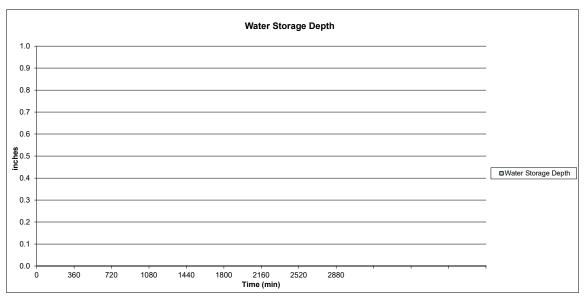
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 4L

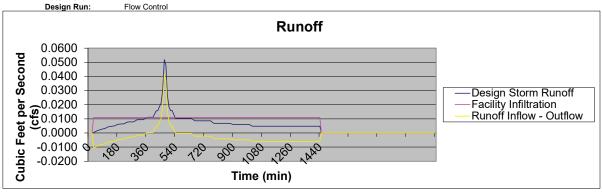
Design Run: Pollution Reduction

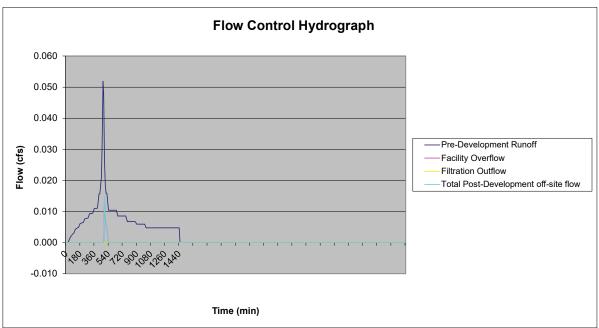


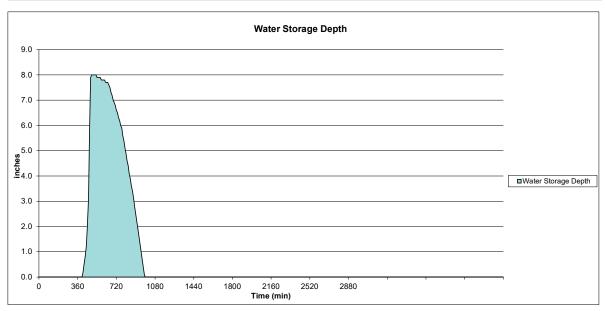




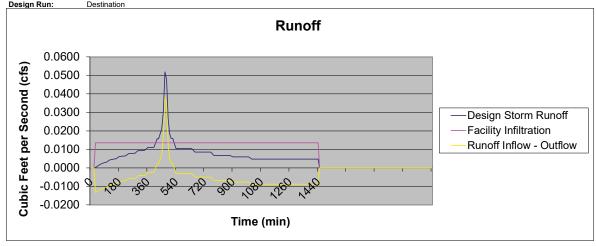
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4L
Design Run: Flow Control

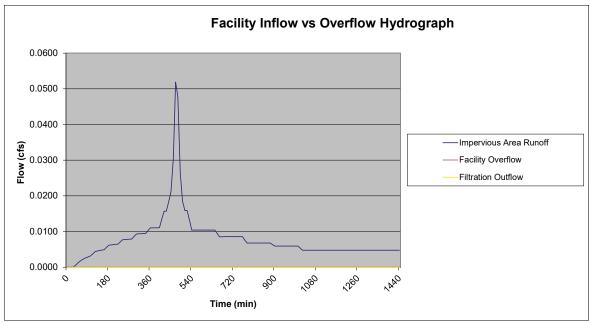


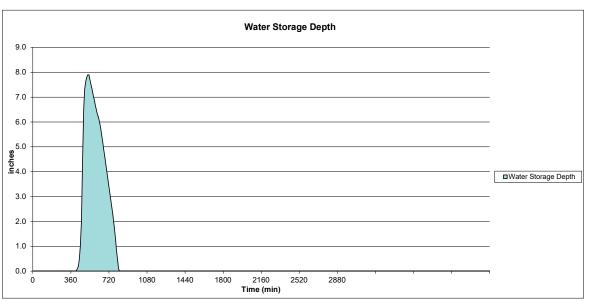




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4L
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	, <u></u>					
	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie			Date: <u>12/30/</u>	<u> 2020</u>	
Project Address:	18-12-15-00-00200	_		Permit Number: <u>NA</u>		
	Florence, OR			Catchment ID: 4M		
Designer:	Clint Beecroft					
Company:	EGR & Associates	<u> </u>				
 Provide a distinctive C calculations with the fa The maximum drainag For infiltration facilities For all facilities use a 	atchment ID for each acility. Je catchment to be r in Class A or B soils maximum soil infiltra	hment in the project site that th facility coordinated with the modeled per the Presumptive s where no infiltration testing ation rate of 2.5 in/hr for tops	ne site basin e Approach i g has been p	map to correlate the appros s 1 acre (43,560 SF) erfromed use an infiltration	ppriate	
Design Requirements:						
Choose "Yes" from the d Pollution Reduction Flow Continues Destination	on (PR) Yes	w next to the design standar	·	ŕ	ements	
Site Data-Post Develop	ment					
Total Square Footage	pervious Area CN	= 98 = 570 sft		Square Footage Pervious Pervious Ard ncentration Post Develop	ea CN=	0 sqft 85 5 min
Site Data-Pre Developm	nent (Data in t	his section is only used if	Flow Contr	ol is required)		
Site Data-Pre Development (Data in this section is only used if Flow Control is required) Pre-Development CN= 98 Time of Concentration Pre-Development= 5 min						
Soil Data						
	oil Infiltration Rates oil Infiltration Rates		4)	Destination D Soil Infiltration		5 in/hr
Design Storms Used Fo	or Calculations					
Requirement	Rainfall Depth	Design Storm				
Pollution Reduction	0.8 inches	Water Quality				
Flow Control	5.1 inches	Flood Control				
Destination	5.1 inches	Flood Control				
Facility Data						
Fa Max. I	Facility Type: Surface Width: Surface Length: acility Side Slopes: Ponding Depth	= 14 ft	lanter	Facility Surface Facility Surface Peri Facility Bottom Facility Bottom Peri	meter= 4: n Area= meter=	7.8 sqft 3.4 ft 52 sqft 31 ft

1/28/2021-7:03 AM

Ratio of Facility Area to Impervious Area=

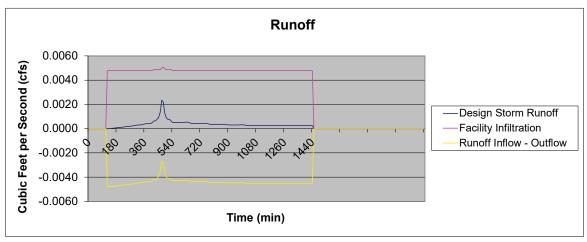
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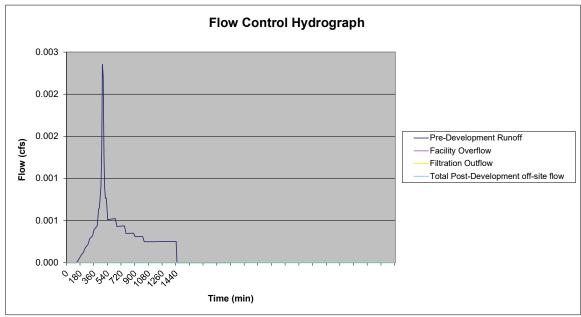
Pollution Reduction-Calculation Results							
Peak Flow Rate to Stormwater Facility = 0.002 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater							
Facility = 30 cf	Total Overflow Volume= 0 cf						
Max. Depth of Stormwater in Facility= 0.0 in							
Drawdown Time= 0.2 hours							
Yes Facility Sizing Meets Pollution Reduction Standards?							
YES Meets Requirement of No Facility Flooding?							
YES Meets Requirement for Maximum of 18 Hour Drawdown Time?							
Flow Control-Calculation Results							
Peak Flow Rate to Stormwater Facility = 0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater							
Facility = 229 cf	Total Overflow Volume= 0 cf						
	Peak Off-Site Flow Rate						
Max. Depth of Stormwater in Facility= 3.1 in	Filtration Facility Underdrain= N\A cfs						
Drawdown Time= 0.2 hours							
Pre-Development Runoff Data							
Peak Flow Rate = 0.017 cfs							
Total Runoff Volume = 229 cf							
Yes Facility Sizing Meets Flow Control Standards?							
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?							
Destination-Calculation Results							
Peak Flow Rate to Stormwater Facility = 0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater							
Facility = 229 cf	Total Overflow Volume= 0 cf						
Max. Depth of Stormwater in Facility= 2.4 in							
Drawdown Time= 0.2 hours							
Yes Facility Sizing Meets Destination Standards?							
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?							

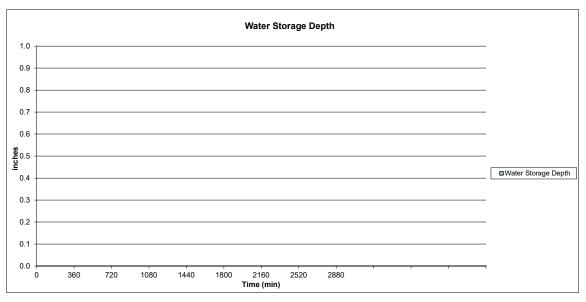
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Project Name: Permit Number: Catchment ID: Three Mile Prairie NA 4M

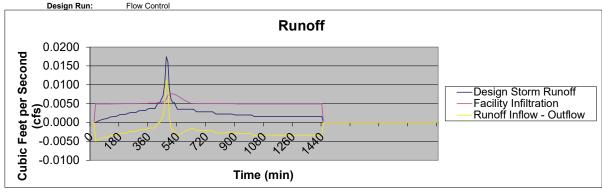
Design Run: Pollution Reduction

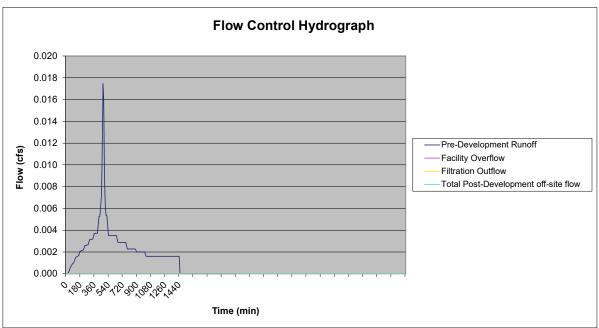


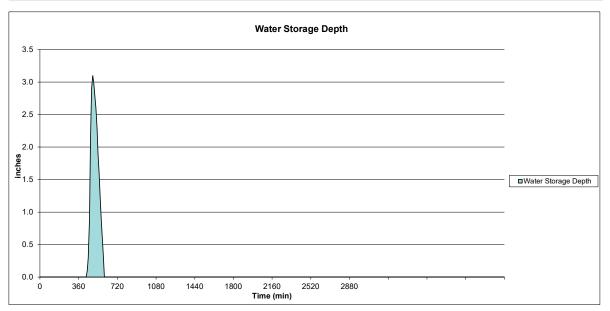




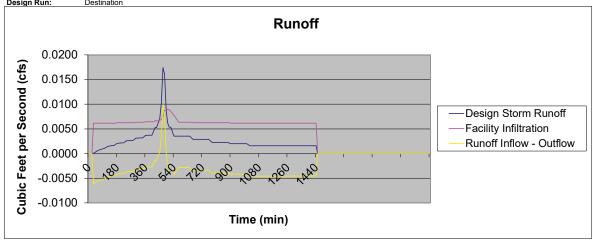
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4M
Design Run: Flow Control

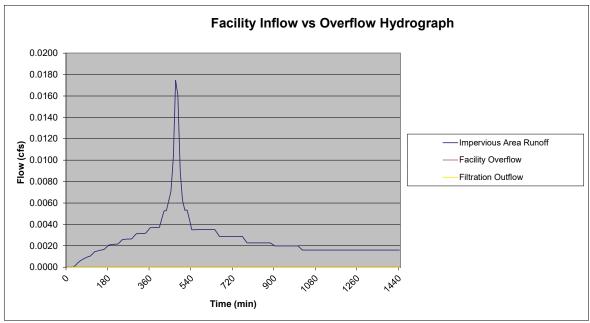


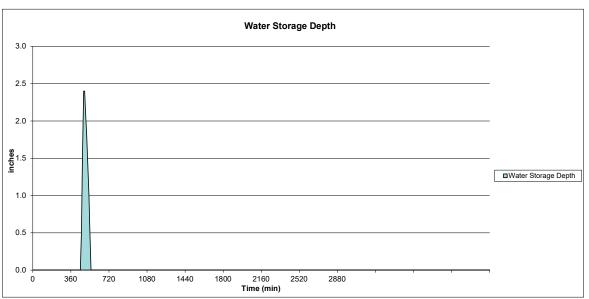




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4M
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1					
Project Information						
Project Name:	Three Mile Prairie	Date: 12/30/2020				
Project Address:	<u>18-12-15-00-00200</u>	Permit Number: NA				
	Florence, OR	Catchment ID: 4N				
Designer:	Clint Beecroft					
Company:	EGR & Associates					
Instructions:						
1. Complete this form for	r each drainage catchment in the p	roject site that is to be sized per the Presumptive Approach.				
Provide a distinctive C calculations with the factors		linated with the site basin map to correlate the appropriate				
3. The maximum drainag	ge catchment to be modeled per the	e Presumptive Approach is 1 acre (43,560 SF)				
	-	tration testing has been perfromed use an infiltration rate of 0.5 in/hr.				
	maximum soil infiltration rate of 2.5					
Design Requirements:						
Choose "Yes" from the o	Iropdown boxes below next to the c	design standards requirements for this facility.				
Pollution Reducti	on (PR) Yes					
Flow Cont						
Destinati		cility must be chosen as the facility type to meet destination requirements				
Destinati	ATTIMIDATION IA	unity thust be chosen as the facility type to meet destination requirements				
Site Data-Post Develop	ment					
Total Square Footag	e Impervious Area= 566 s	sqft Total Square Footage Pervious Area= 0 sqft				
-	npervious Area CN= 98	Pervious Area CN= 85				
""	ipervious Area CN-	Felvious Alea CN-				
Total Square Footage	e of Drainage Area 566 s	sft Time of Concentration Post Development= 5 min				
-	ghted Average CN= 98	Time of concentration 1 ost bevelopment-				
Site Data-Pre Developr		only used if Flow Control is required)				
	e-Development CN= 98	Time of Concentration Pre-Development= 5 min				
Soil Data						
		n/hr (See Note 4) Destination Design= 5 in/hr				
Design S	oil Infiltration Rate= 4	n/hr Soil Infiltration Rate				
Design Storms Used F	or Calculations					
Requirement	Rainfall Depth Design Stor	m				
Pollution Reduction	0.8 inches Water Quality	y				
Flow Control	5.1 inches Flood Contro					
Destination	5.1 inches Flood Contro	ıl en en en en en en en en en en en en en				
Facility Data						
	Facility Type= Infiltration S	Stormwater Planter Facility Surface Area= 107.8 sqft				
	Surface Width= 7.7 f					
Surface Length= 14 ft Facility Bottom Area 52 sqft						
Facility Side Slopes 3 to 1 Facility Bottom Perimeter 31 ft						
Max. Ponding Depth						
in Stormwater Facility= 6 in Basin Volume= 42.1 cf						
Depth of Growing Medium (Soil)= 18 in Ratio of Facility Area to Impervious Area= 0.190						

1/28/2021-7:05 AM

Pollution Reduction-Calculation Results								
Peak Flow Rate to Stormwater Facility =	0.002 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater								
Facility =	30 cf	Total Overflow Volume= 0 cf						
Max. Depth of Stormwater in Facility=	0.0 in							
Drawdown Time=	0.2 hours							
Yes Facility Sizing M	Yes Facility Sizing Meets Pollution Reduction Standards?							
YES Meets Requ	uirement of No Facil	lity Flooding?						
YES Meets Requ	uirement for Maximu	um of 18 Hour Drawdown Time?						
Flow Control-Calculation Results								
Peak Flow Rate to Stormwater Facility =	0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater								
Facility =	227 cf	Total Overflow Volume= 0 cf						
		Peak Off-Site Flow Rate						
Max. Depth of Stormwater in Facility=	3.1 in	Filtration Facility Underdrain= N\A cfs						
Drawdown Time=	0.2 hours							
Pre-Development R								
Peak Flow Rate =	0.017 cfs							
Total Runoff Volume =	227 cf							
Yes Facility Sizing Meets Flow Control Standards?								
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?								
Destination-Calculation Results								
Peak Flow Rate to Stormwater Facility =	0.017 cfs	Peak Facility Overflow Rate= 0.000 cfs						
Facility =	227 cf	Total Overflow Volume= 0 cf						
Max. Depth of Stormwater in Facility=	2.4 in							
Drawdown Time=	0.2 hours							
Yes Facility Sizing M	eets Destination	Standards?						
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?								

1/28/2021-7:05 AM 2

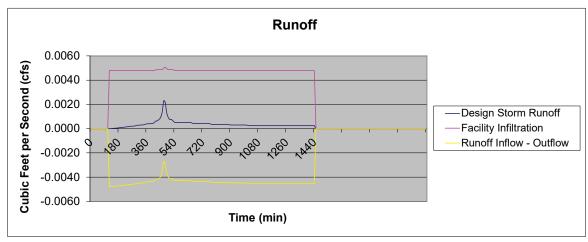
Project Name: Permit Number: Catchment ID:

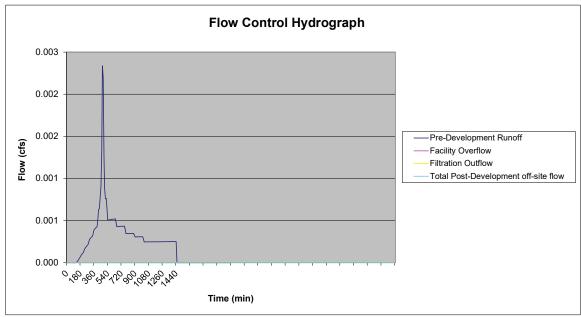
Design Run:

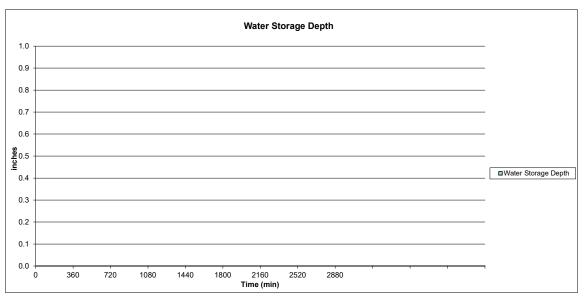
Three Mile Prairie

NA 4N

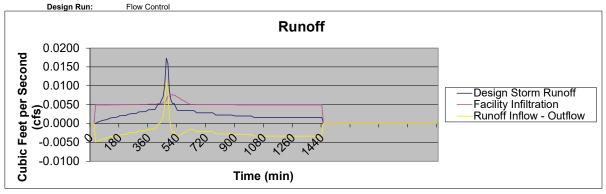
Pollution Reduction

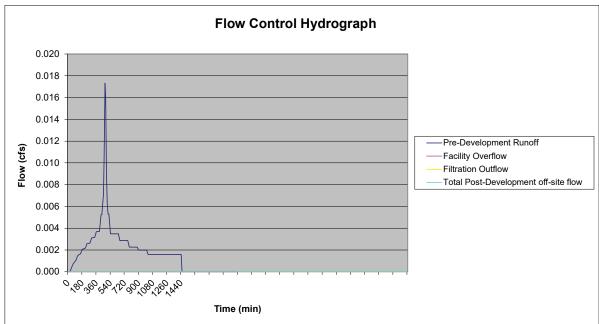


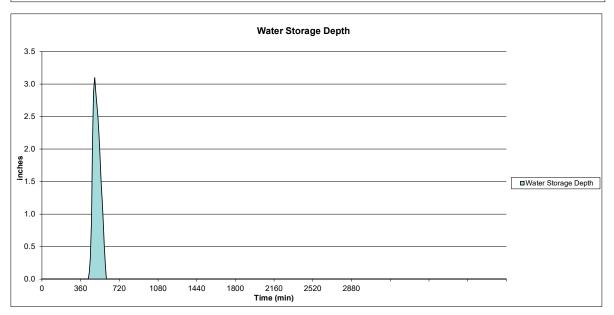




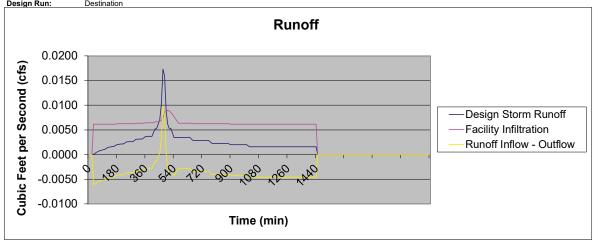
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4N
Design Run: Flow Control

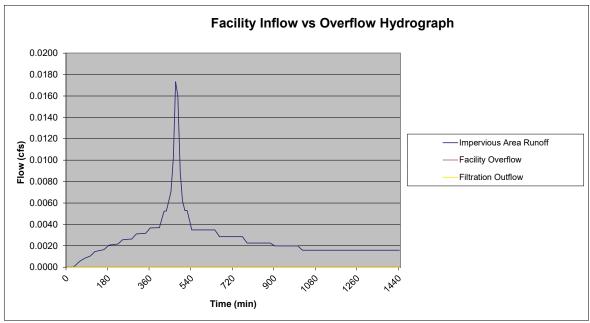


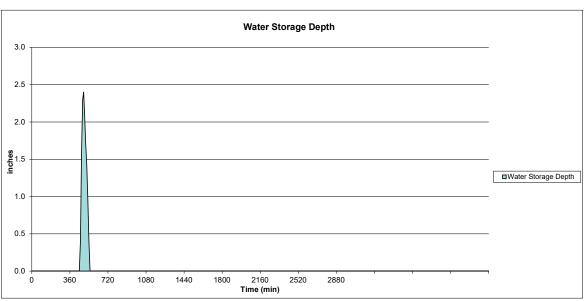




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4N
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	Version 2.1					
Project Information	Version 2.1					
Project Name:	Three Mile Prairie	Date: 12/30/2020				
Project Address:	18-12-15-00-00200	Permit Number: NA				
-	Florence, OR	Catchment ID: <u>5A</u>				
Designer:	Clint Beecroft					
Company:	EGR & Associates					
Instructions:						
		e that is to be sized per the Presumptive Approach.				
		ith the site basin map to correlate the appropriate				
calculations with the		(40 F00 OF)				
	age catchment to be modeled per the Presun	esting has been perfromed use an infiltration rate of 0.5 in/hr.				
	n maximum soil infiltration rate of 2.5 in/hr for					
Design Requirements		r toposing, ourning modulum.				
Design Requirements						
Choose "Yes" from the	dropdown boxes below next to the design sta	andards requirements for this facility.				
Dallestian Dadesat	ion (PP)					
Pollution Reduct						
Flow Con	` '					
Destinat	ion (DT) Yes *An infiltration facility must t	be chosen as the facility type to meet destination requirements				
Site Data-Post Develo	pment					
		Total Owners Francisco Assert				
	ge Impervious Area 3512 sqft	Total Square Footage Pervious Area 0 sqft				
II.	mpervious Area CN= 98	Pervious Area CN= 85				
Total Square Footag	ge of Drainage Area= 3512 sft	Time of Concentration Post Development= 5 min				
Total Square Footage of Drainage Area= 3512 sft Time of Concentration Post Development= 5 min Weighted Average CN= 98						
Site Data-Pre Develop		ad if Flow Control is required)				
	re-Development CN= 98	Time of Concentration Pre-Development= 5 min				
Soil Data						
	Soil Infiltration Rate= 10 in/hr (See					
Design S	Soil Infiltration Rate= 4 in/hr	Soil Infiltration Rate				
Design Storms Used F	or Calculations					
Requirement	Rainfall Depth Design Storm					
Pollution Reduction	0.8 inches Water Quality					
Flow Control	5.1 inches Flood Control					
Destination	5.1 inches Flood Control					
Facility Data						
	Facility Type= Infiltration Stormwa	ter Planter Facility Surface Area= 277.4 sqft				
	Surface Width= 3.8 ft	Facility Surface Perimeter= 153.6 ft				
	Surface Length= 73 ft	Facility Bottom Area= 277 sqft				
	Facility Side Slopes= 0 to 1	Facility Bottom Perimeter= 154 ft				
	Max. Ponding Depth					
	rmwater Facility= 6 in	Basin Volume= 138.7 cf				
Depth of Gro	wing Medium (Soil)= 18 in	Ratio of Facility Area to Impervious Area= 0.079				

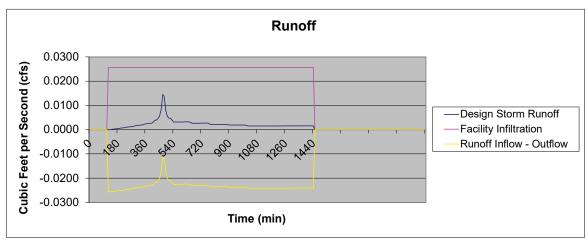
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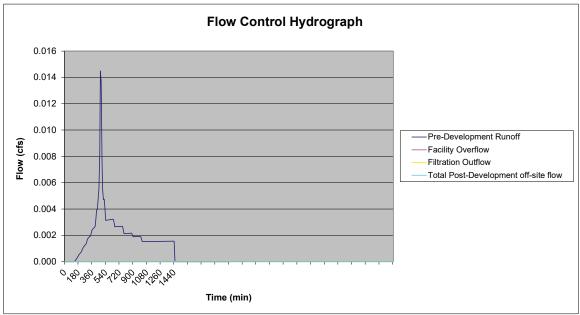
Pollution Reduction-Calculation Results								
Peak Flow Rate to Stormwater Facility =	0.014 cfs F	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater								
Facility =	183 cf	Total Overflow Volume= 0 cf						
Max. Depth of Stormwater in Facility=	0.0 in							
Drawdown Time=	0.2 hours							
Yes Facility Sizing Meets	Yes Facility Sizing Meets Pollution Reduction Standards?							
YES Meets Requiren	ent of No Facility Flooding?							
YES Meets Requiren	ent for Maximum of 18 Hour Draw	down Time?						
Flow Control-Calculation Results								
Peak Flow Rate to Stormwater Facility =	0.108 cfs F	Peak Facility Overflow Rate= 0.029 cfs						
Total Runoff Volume to Stormwater								
Facility =	1409 cf	Total Overflow Volume= 40 cf						
		Peak Off-Site Flow Rate						
Max. Depth of Stormwater in Facility=		Itration Facility Underdrain= N\A cfs						
Drawdown Time=	0.2 hours							
Pre-Development Runof	: Data							
Peak Flow Rate =	0.108 cfs							
Total Runoff Volume =	1412 cf							
Yes Facility Sizing Meets Flow Control Standards?								
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?								
Destination-Calculation Results								
	0.108 cfs F	Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater	1400 of	Total Overflow Volumes						
Facility =	1409 cf 5.7 in	Total Overflow Volume= 0 cf						
Drawdown Time=	0.2 hours							
Brawdown Time-	0.2 110013							
Yes Facility Sizing Meets	Destination Standards?							
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?								

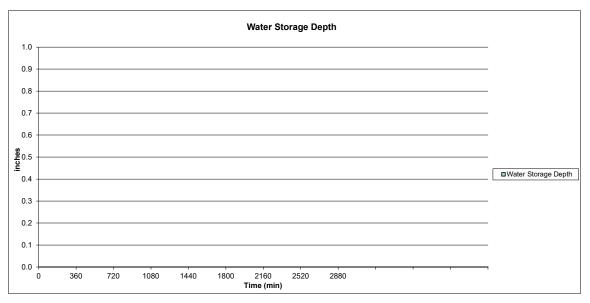
1/28/2021-7:34 AM 2

Project Name: Permit Number: Catchment ID: Three Mile Prairie NA 5A

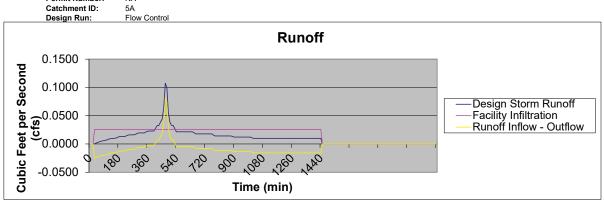
Design Run: Pollution Reduction

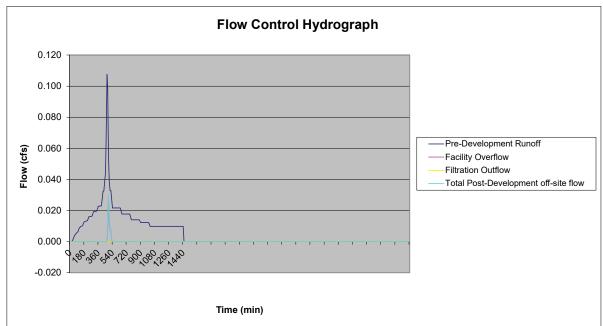


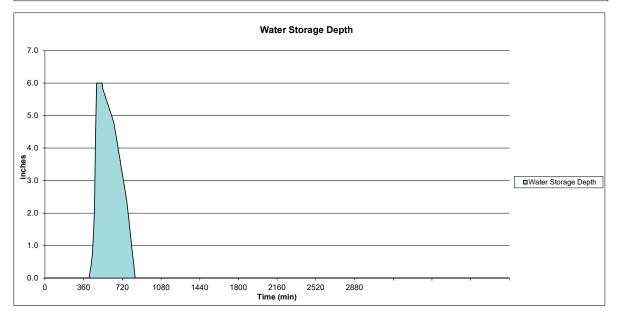




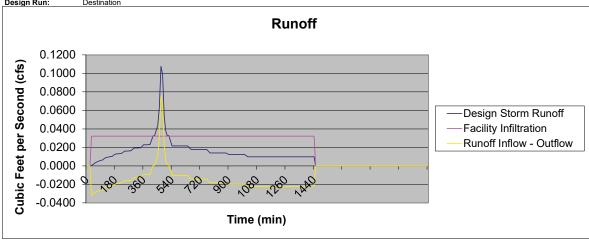
Project Name: Permit Number: Three Mile Prairie 5A Flow Control

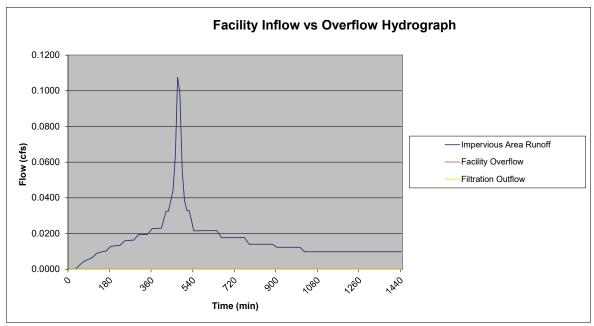


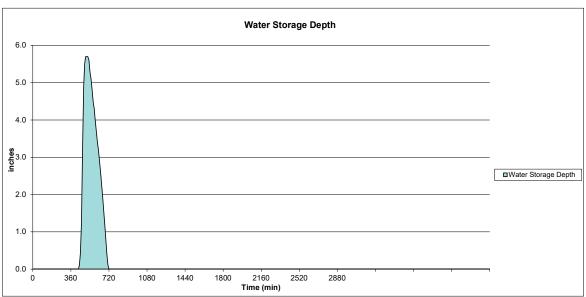




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5A
Design Run: Destination









Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

	only of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200		Perm	it Number:	<u>NA</u>		
	Florence, OR		Catch	hment ID:	<u>5B</u>		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
 Provide a distinctive C calculations with the fa The maximum drainag For infiltration facilities For all facilities use a r 	atchment ID for each acility. e catchment to be m in Class A or B soils	ment in the project site that facility coordinated with the odeled per the Presumptive where no infiltration testingtion rate of 2.5 in/hr for tops	e site basin map to e Approach is 1 acr has been perfrome	o correlate the re (43,560 Sl ed use an in	e appropriate		
Design Requirements:							
Choose "Yes" from the di Pollution Reduction Flow Contr Destination	on (PR) Yes	v next to the design standa *An infiltration facility must be cho					
Site Data-Post Develop	ment						
Total Square Footage Impervious Area							
Site Data-Pre Developm	nent (Data in th	is section is only used if	Flow Control is re	equired)			
Pre	-Development CN=	98	Time of Concenti	ration Pre-D	Development=	5	min
Soil Data							
Tested Soil Infiltration Rate= 10 in/hr (See Note 4) Destination Design= 5 in/hr Design Soil Infiltration Rate= 4 in/hr Soil Infiltration Rate							
Design Storms Used Fo	or Calculations						
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction	0.8 inches	Water Quality					
Flow Control	5.1 inches	Flood Control					
Destination	5.1 inches	Flood Control					
Facility Data		2 2 3 1 1 1					
Fa	Facility Type= Surface Width= Surface Length= acility Side Slopes= Ponding Depth	Infiltration Stormwater P 3.8 ft 73 ft to 1	Fa	cility Surfac	Surface Area= ce Perimeter= Bottom Area= m Perimeter=	277.4 153.6 277 154	ft sqft
	nwater Facility=	6 in		R	asin Volume=	138 7	cf

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Ratio of Facility Area to Impervious Area=

0.079

18 in

Depth of Growing Medium (Soil)=

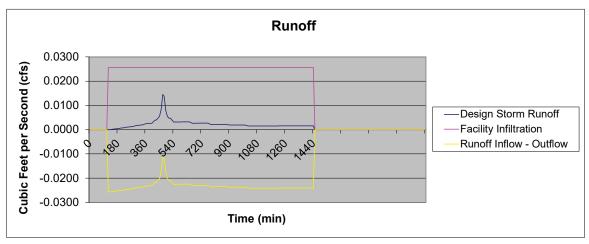
Peak Flow Rate to Stormwater Facility = 0.015 cfs Peak Facility Overflow Rate = 0.000 Total Runoff Volume to Stormwater	cfs						
Total Runoff Volume to Stormwater							
	1						
	cf						
Max. Depth of Stormwater in Facility= 0.0 in							
Drawdown Time= 0.2 hours							
Yes Facility Sizing Meets Pollution Reduction Standards?							
YES Meets Requirement of No Facility Flooding?							
YES Meets Requirement for Maximum of 18 Hour Drawdown Time?							
Flow Control-Calculation Results							
Peak Flow Rate to Stormwater Facility = 0.108 cfs Peak Facility Overflow Rate 0.030	cfs						
Total Runoff Volume to Stormwater	1						
Facility = 1412 cf Total Overflow Volume= 41	cf						
Peak Off-Site Flow Rate							
· · · · · · · · · · · · · · · · · · ·	cfs						
Drawdown Time= 0.2 hours							
Pre-Development Runoff Data							
Peak Flow Rate = 0.108 cfs							
Total Runoff Volume = 1415 cf							
Yes Facility Sizing Meets Flow Control Standards?							
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?							
Destination-Calculation Results							
Peak Flow Rate to Stormwater Facility = 0.108 cfs Peak Facility Overflow Rate= 0.000	cfs						
Total Runoff Volume to Stormwater Facility = 1412 cf Total Overflow Volume= 0	cf						
Max. Depth of Stormwater in Facility= 5.8 in	Ci						
Drawdown Time= 0.2 hours							
Yes Facility Sizing Meets Destination Standards?							
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?							

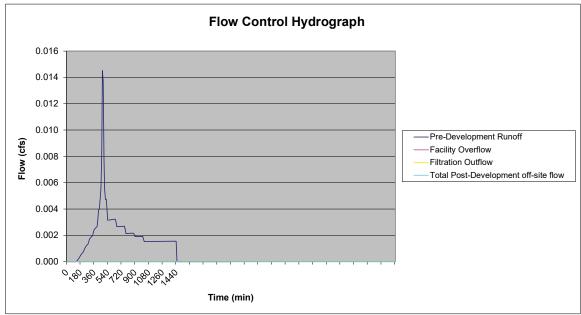
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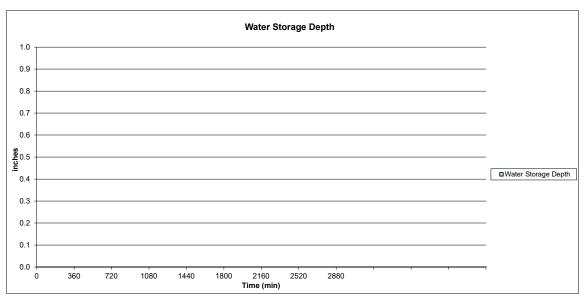
Project Name: Permit Number: Catchment ID: Three Mile Prairie

NA 5B Design Run:

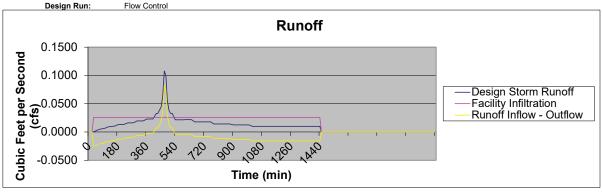
Pollution Reduction

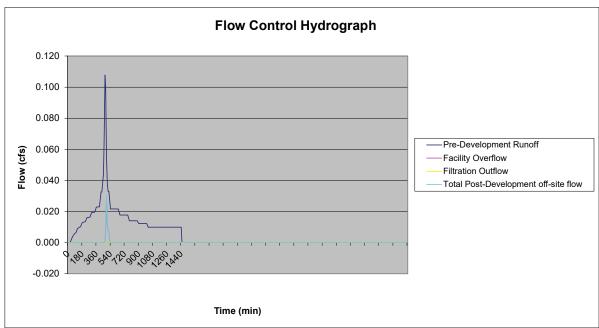


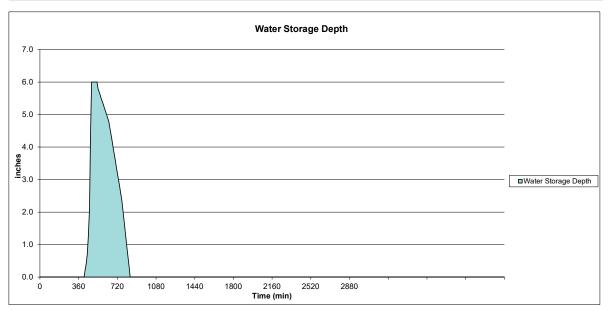




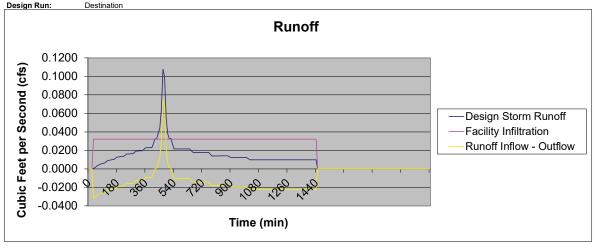
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5B
Design Run: Flow Control

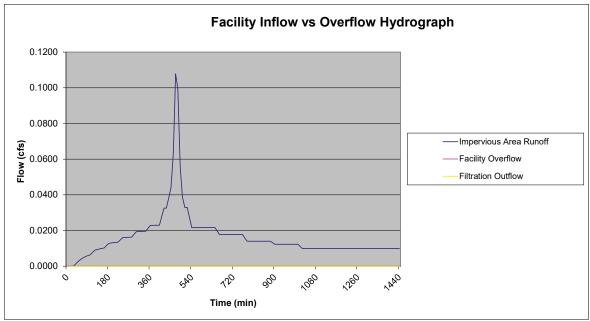


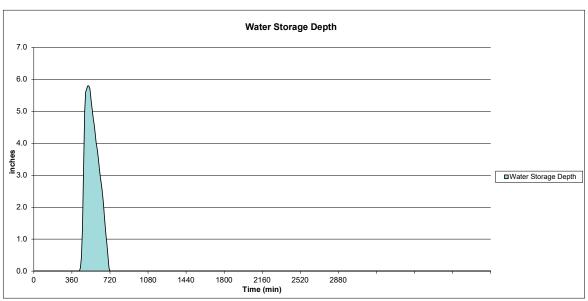




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5B
Design Run: Destination









Depth of Growing Medium (Soil)=

Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet 24 Hour Storm, NRCS Type 1A Rainfall Distribution City of Eugene

EUGENE	City of Eugene						
	Version 2.1						
Project Information							
Project Name:	Three Mile Prairie			Date:	12/30/2020		
Project Address:	18-12-15-00-00200			Permit Number:	<u>NA</u>		
	Florence, OR			Catchment ID:	5C		
Designer:	Clint Beecroft						
Company:	EGR & Associates						
Instructions:							
1. Complete this form fo	r each drainage catch	ment in the project site	that is to be size	ed per the Presum	ptive Approach.		
2. Provide a distinctive (Catchment ID for each						
3. The maximum draina	ge catchment to be m	odeled per the Presump	tive Approach i	s 1 acre (43,560 S	F)		
4.For infiltration facilities	in Class A or B soils	where no infiltration test	ting has been p	erfromed use an in	-	0.5 in/hr.	
		ion rate of 2.5 in/hr for to	opsoli/growing r	neaium.			
Design Requirements							
Choose "Yes" from the	dropdown boxes belov	v next to the design stan	ndards requirem	ents for this facility	y .		
Dallastia a Dasta st	(DD) V	1					
	Pollution Reduction (PR) Yes						
Flow Control (FC) Yes							
Destinati	on (DT) Yes	*An infiltration facility must be	chosen as the facili	ty type to meet destinati	ion requirements		
Cita Data Boot Davidor							
Site Data-Post Develor	oment						
Total Square Footag	e Impervious Area=	1555 sqft	Total S	Square Footage P	ervious Area=	0	sqft
Impervious Area CN= 98 Pervious Area CN= 85							
Total Square England of Drainage Areas 1555 of Time of Concentration Book Bouleanness 1							
Total Square Footage of Drainage Area 1555 sft Time of Concentration Post Development 5 min							
we	Weighted Average CN= 98						
Site Data-Pre Development (Data in this section is only used if Flow Control is required)							
Pr	e-Development CN=	98	Time of Co	ncentration Pre-D	Development=	5	min
Soil Data							
Tested S	oil Infiltration Rate=	10 in/hr (See No	ote 4)	Destina	ation Design=	5	in/hr
Design S	oil Infiltration Rate=	4 in/hr		Soil In	filtration Rate		
Design Storms Used F	or Calculations						
Requirement	Rainfall Depth	Design Storm					
Pollution Reduction	0.8 inches	Water Quality					
Flow Control	5.1 inches	Flood Control					
Destination	5.1 inches	Flood Control					
Facility Data							
	Facility Type=	Infiltration Stormwate	r Planter	Facility 9	Surface Area=	121.6	saft
	Surface Width=	3.8 ft			ce Perimeter=	71.6	1
	Surface Length=	32 ft		•	Bottom Area=	122	
F	acility Side Slopes=	0 to 1		-	m Perimeter=	72	
	Ponding Depth			, _ 3	· · · · · · · ·		
	mwater Eacility=	6 in		ь	asin Volumo-	60 g	of

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Ratio of Facility Area to Impervious Area=

0.078

Peak Flow Rate to Stormwater Facility = 0.006 cfs Total Runoff Volume to Stormwater Facility = 81 cf Max. Depth of Stormwater in Facility = 0.0 in Drawdown Time = 0.2 hours Yes Facility Sizing Meets Pollution Reduction Standards? YES Meets Requirement of No Facility Flooding? Weets Requirement for Maximum of 18 Hour Drawdown Time?						
Facility = 81 cf Total Overflow Volume= 0 cf Max. Depth of Stormwater in Facility= 0.0 in Drawdown Time= 0.2 hours Yes Facility Sizing Meets Pollution Reduction Standards? YES Meets Requirement of No Facility Flooding?						
Max. Depth of Stormwater in Facility= Drawdown Time= O.0 in hours Yes Facility Sizing Meets Pollution Reduction Standards? YES Meets Requirement of No Facility Flooding?						
Prawdown Time= 0.2 hours Yes Facility Sizing Meets Pollution Reduction Standards? YES Meets Requirement of No Facility Flooding?						
Yes Facility Sizing Meets Pollution Reduction Standards? YES Meets Requirement of No Facility Flooding?						
YES Meets Requirement of No Facility Flooding?						
YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Flow Control-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.048 cfs Peak Facility Overflow Rate 0.013 cfs						
Total Runoff Volume to Stormwater						
Facility = 624 cf Total Overflow Volume= 19 cf						
Peak Off-Site Flow Rate						
Max. Depth of Stormwater in Facility= 6.0 in Filtration Facility Underdrain= N\A cfs						
Drawdown Time= 0.2 hours						
Pre-Development Runoff Data						
Peak Flow Rate = 0.048 cfs						
Total Runoff Volume = 625 cf						
Yes Facility Sizing Meets Flow Control Standards?						
YES Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow? YES Meets Requirement for Maximum of 18 Hour Drawdown Time?						
Destination-Calculation Results						
Peak Flow Rate to Stormwater Facility = 0.048 cfs Peak Facility Overflow Rate= 0.000 cfs						
Total Runoff Volume to Stormwater Facility = 624 cf Total Overflow Volume= 0 cf						
Max. Depth of Stormwater in Facility= 5.9 in						
Drawdown Time= 0.2 hours						
Yes Facility Sizing Meets Destination Standards?						
YES Meets Requirement of No Facility Flooding? YES Meets Requirement for Maximum of 30 hour Drawdown Time?						

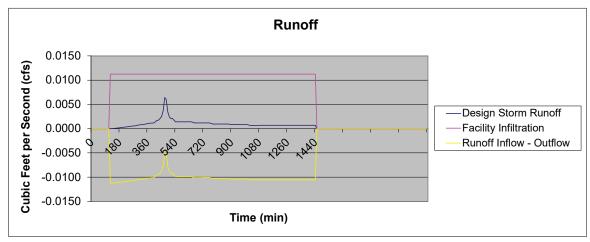
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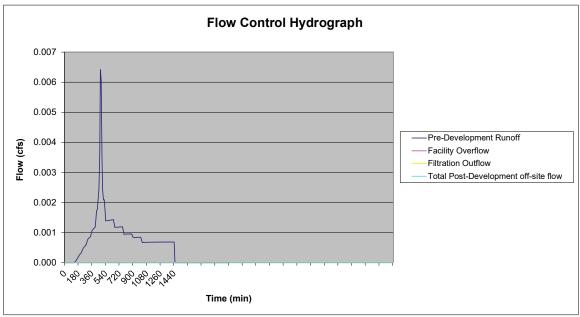
Project Name: Permit Number: Catchment ID: Design Run:

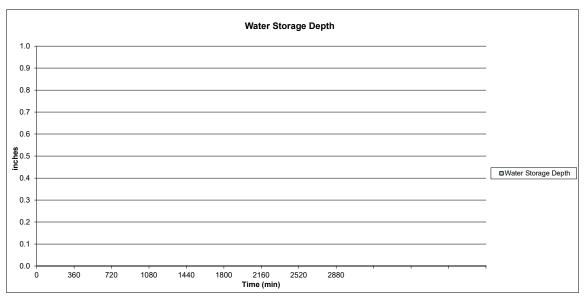
Three Mile Prairie

NA 5C

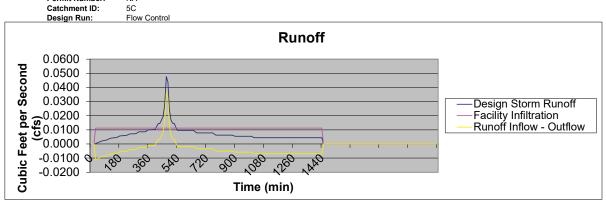
Pollution Reduction

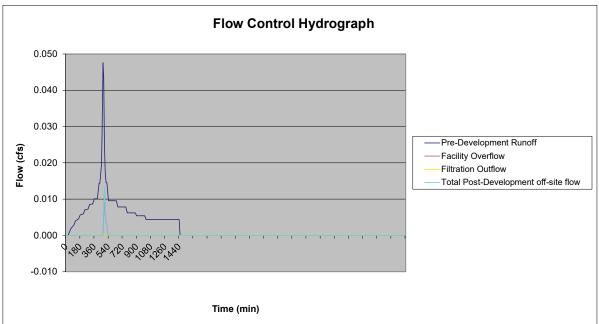


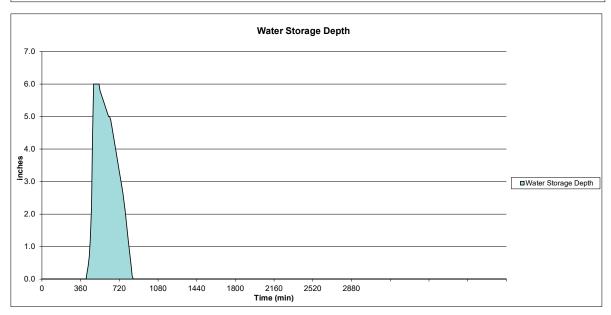




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5C







Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5C
Design Run: Destination

