

# Appendix F

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## Trip Generation Estimates

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Table 1

## Peak Day Construction Trip Generation Estimates

Vehicle Type			Daily Quantity		Daily Trips <sup>1</sup>	AM Peak Hour			PM Peak Hour		
						In	Out	Total	In	Out	Total
Cofferdam and Temporary Stream Bypass System											
Pipe Installation (Non-PCE Trips)											
Construction Workers		5	workers	10	5	0	5	0	5	5	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		0	trucks	0	0	0	0	0	0	0	
Pipe Installation				10	5	0	5	0	5	5	
Pipe Installation (PCE-Adjusted Trips)											
Construction Workers		5	workers	10	5	0	5	0	5	5	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		0	trucks	0	0	0	0	0	0	0	
Pipe Installation (PCE)				10	5	0	5	0	5	5	
New Coanda Screen Intake and Valve Vault Structures											
Excavation (Non-PCE Trips)											
Construction Workers		1	workers	2	1	0	1	0	1	1	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		1	trucks	2	1	0	1	0	1	1	
Excavation				4	2	0	2	0	2	2	
Excavation (PCE-Adjusted Trips)											
Construction Workers		1	workers	2	1	0	1	0	1	1	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		3	trucks	6	3	0	3	0	3	3	
Excavation (PCE)				8	4	0	4	0	4	4	
Doweling and Anchorage (Non-PCE Trips)											
Construction Workers		1	workers	2	1	0	1	0	1	1	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		0	trucks	0	0	0	0	0	0	0	
Doweling and Anchorage				2	1	0	1	0	1	1	
Doweling and Anchorage (PCE-Adjusted Trips)											
Construction Workers		1	workers	2	1	0	1	0	1	1	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		0	trucks	0	0	0	0	0	0	0	
Doweling and Anchorage (PCE)				2	1	0	1	0	1	1	
Installation of Rebar and Pouring Concrete (Non-PCE Trips)											
Construction Workers		5	workers	10	5	0	5	0	5	5	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		2	trucks	4	2	0	2	0	2	2	
Installation of Rebar and Pouring Concrete				14	7	0	7	0	7	7	
Installation of Rebar and Pouring Concrete (PCE-Adjusted Trips)											
Construction Workers		5	workers	10	5	0	5	0	5	5	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		6	trucks	12	6	0	6	0	6	6	
Installation of Rebar and Pouring Concrete (PCE)				22	11	0	11	0	11	11	
Installation of Coanda Screen and Valve Vault (Non-PCE Trips)											
Construction Workers		1	workers	2	1	0	1	0	1	1	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		1	trucks	2	1	0	1	0	1	1	
Installation of Coanda Screen and Valve Vault				4	2	0	2	0	2	2	
Installation of Coanda Screen and Valve Vault (PCE-Adjusted Trips)											
Construction Workers		1	workers	2	1	0	1	0	1	1	
Vendor trucks		0	trucks	0	0	0	0	0	0	0	
Haul trucks		3	trucks	6	3	0	3	0	3	3	
Installation of Coanda Screen and Valve Vault (PCE)				8	4	0	4	0	4	4	
Electrical Installations											
Electrical Conduit Installation (Non-PCE Trips)											
Construction Workers		1	workers	2	1	0	1	0	1	1	
Vendor trucks		1	trucks	2	1	0	1	0	1	1	
Haul trucks		0	trucks	0	0	0	0	0	0	0	
Electrical Conduit Installation				4	2	0	2	0	2	2	
Electrical Conduit Installation (PCE-Adjusted Trips)											
Construction Workers		1	workers	2	1	0	1	0	1	1	
Vendor trucks		2	trucks	4	2	0	2	0	2	2	
Haul trucks		0	trucks	0	0	0	0	0	0	0	
Electrical Conduit Installation (PCE)				6	3	0	3	0	3	3	
Access Stairs and Riprap Apron											
Access Stairs (Non-PCE Trips)											
Construction Workers		4	workers	8	4	0	4	0	4	4	
Vendor trucks		1	trucks	2	1	0	1	0	1	1	
Haul trucks		1	trucks	2	1	0	1	0	1	1	
Access Stairs				12	6	0	6	0	6	6	
Access Stairs (PCE-Adjusted Trips)											
Construction Workers		4	workers	8	4	0	4	0	4	4	
Vendor trucks		2	trucks	4	2	0	2	0	2	2	
Haul trucks		3	trucks	6	3	0	3	0	3	3	
Access Stairs (PCE)				18	9	0	9	0	9	9	
Project Total				50	25	0	25	0	25	25	
Project Total (PCE)				74	37	0	37	0	37	37	

Source: Dudek 2020

Notes: PCE = Passenger Car Equivalents

<sup>1</sup>Daily trips represent the number of trips to and from the project site (i.e., two trips represents one vehicle traveling to the work area and leaving the work area)

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