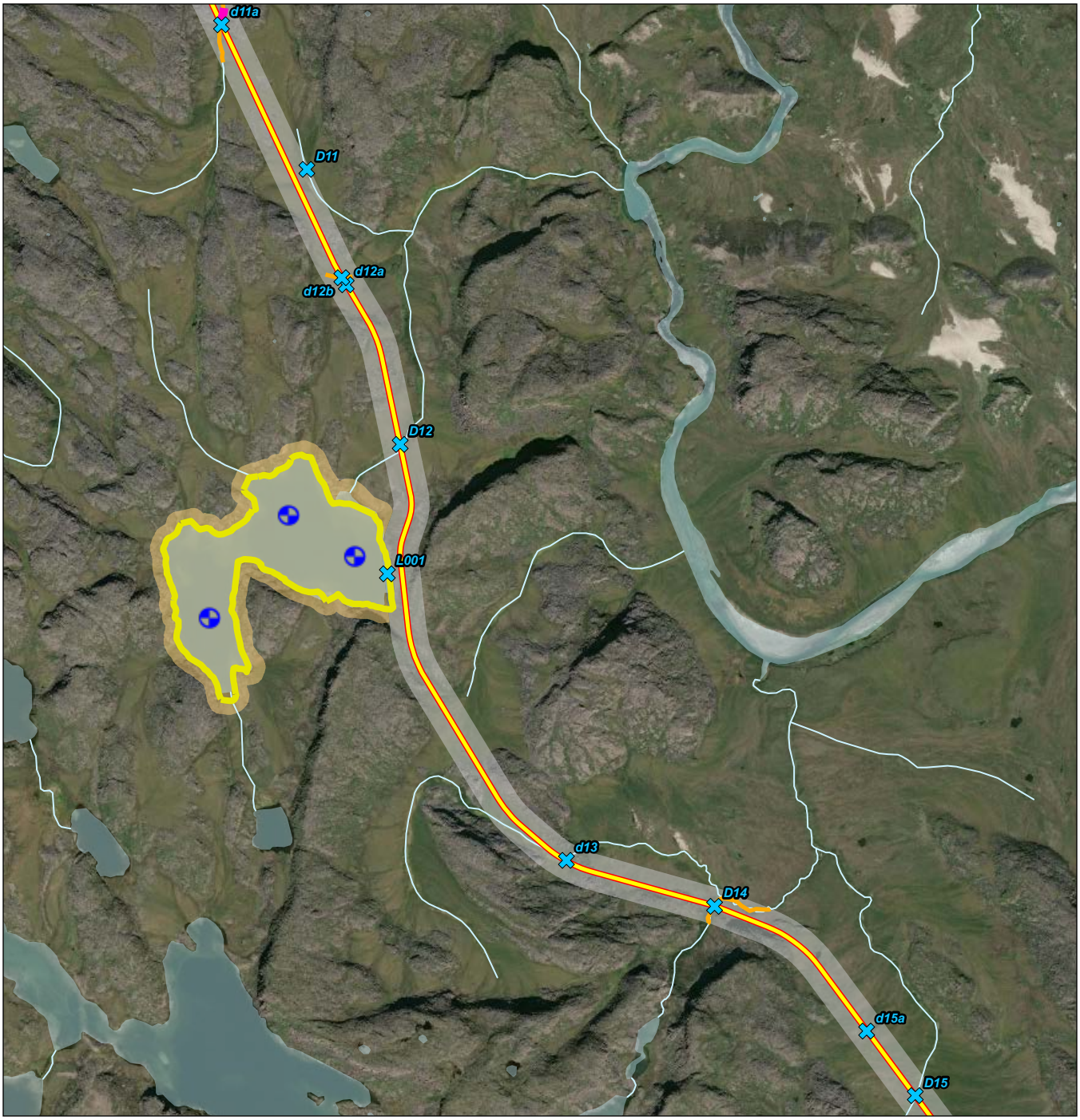
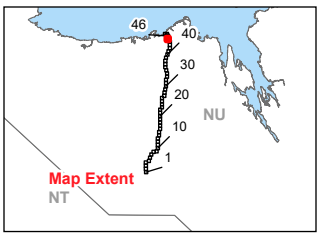




Notes
1. Coordinate System: WGS 1984 UTM Zone 12N
2. Data Sources: Government of Canada, Stantec, Vantor

- Habitat Profile Transect
- Watercourse Crossing
- Water Quality
- Water Quantity
- Fishing Station
- Lake Habitat
- Stream Habitat Profile
- Grays Bay Road
- Grays Bay Winter Road
- Grays Bay Winter Road Optional Alignment

Project Development Area (PDA)

- Aerodrome
- Jericho Station
- Port (Landside Infrastructure)
- Port (Marine-based Infrastructure)
- Road
- Tibbitt to Contwoyto Winter Road
- Watercourse
- Waterbody

0 250 500 Metres
(At original document size of 8.5x11) 1:25,000

N

NUNAMI STANTEC LIMITED

WEST KITIKMEOT RESOURCES CORP

Project Location
West Kitikmeot Region
Nunavut

Prepared by DS on 2026-02-02
TR by SL on 2026-02-02

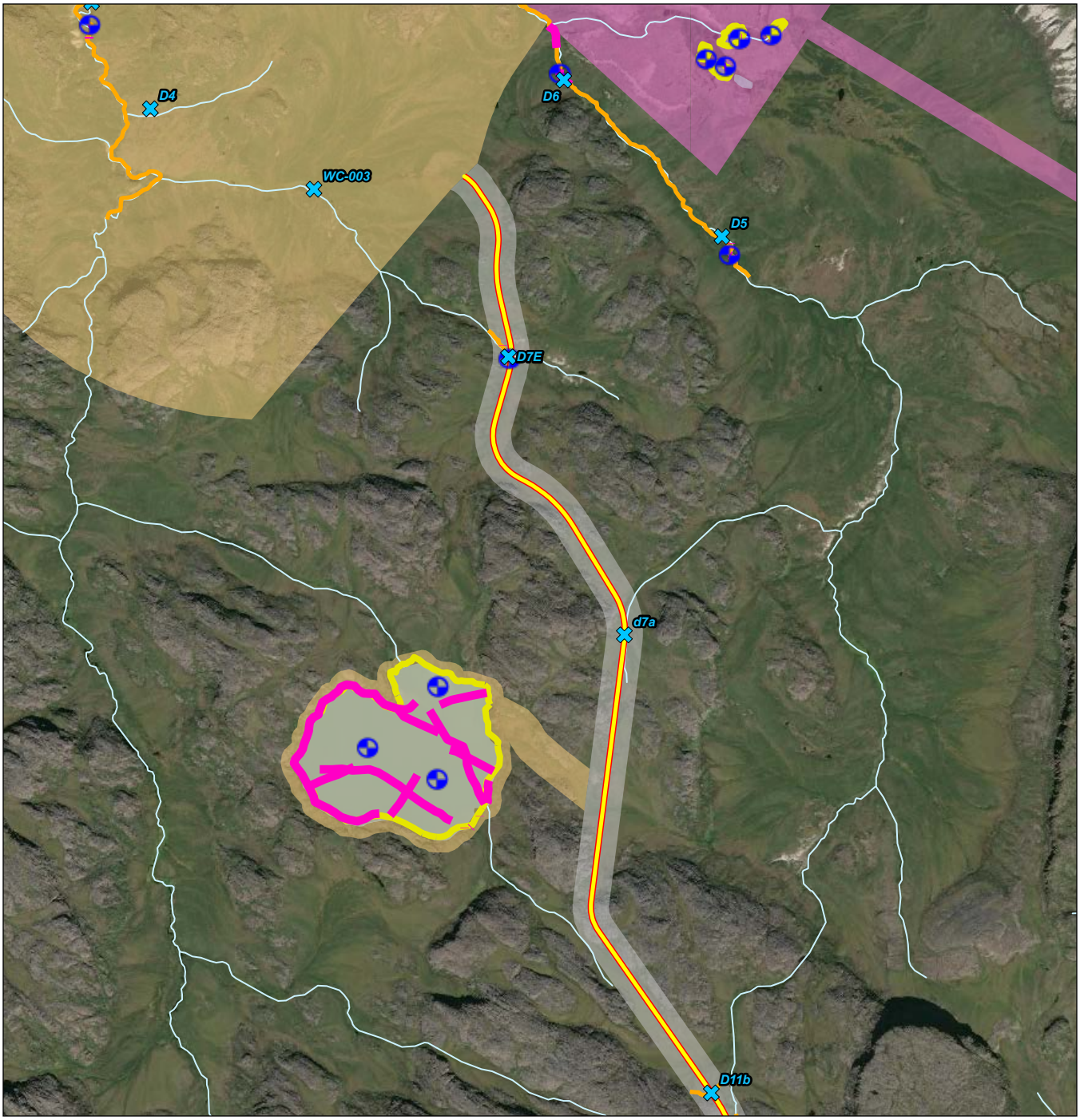
Client/Project
123514868_114

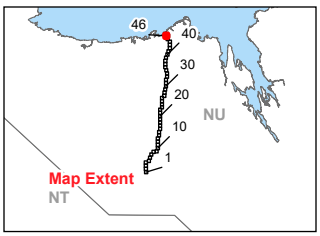
West Kitikmeot Resources Corp
Grays Bay Road and Port

Figure No.
B.2 **45 of 49**

Title
Grays Bay Road Watercourse Crossings

\\\Ca0002-ppfss05\geomatics\Clients\Nunami_Stantec\GBRP\Figures\123514868_114_Grays_Bay_Road_Watercourse_Crossings.pagx Revised: 2026-02-04 By: dcspry





Notes
1. Coordinate System: WGS 1984 UTM Zone 12N
2. Data Sources: Government of Canada, Stantec, Vantor

- Habitat Profile Transect
- Watercourse Crossing
- Water Quality
- Water Quantity
- Fishing Station
- Lake Habitat
- Stream Habitat Profile
- Grays Bay Road
- Grays Bay Winter Road
- Grays Bay Winter Road Optional Alignment

Project Development Area (PDA)

- Aerodrome
- Jericho Station
- Port (Landside Infrastructure)
- Port (Marine-based Infrastructure)
- Road
- Tibbitt to Contwoyto Winter Road
- Watercourse
- Waterbody

0 250 500 Metres

(At original document size of 8.5x11) 1:25,000

N

NUNAMI STANTEC LIMITED

WEST KITIKMEOT RESOURCES CORP

Project Location
West Kitikmeot Region
Nunavut

Prepared by DS on 2026-02-02
TR by SL on 2026-02-02

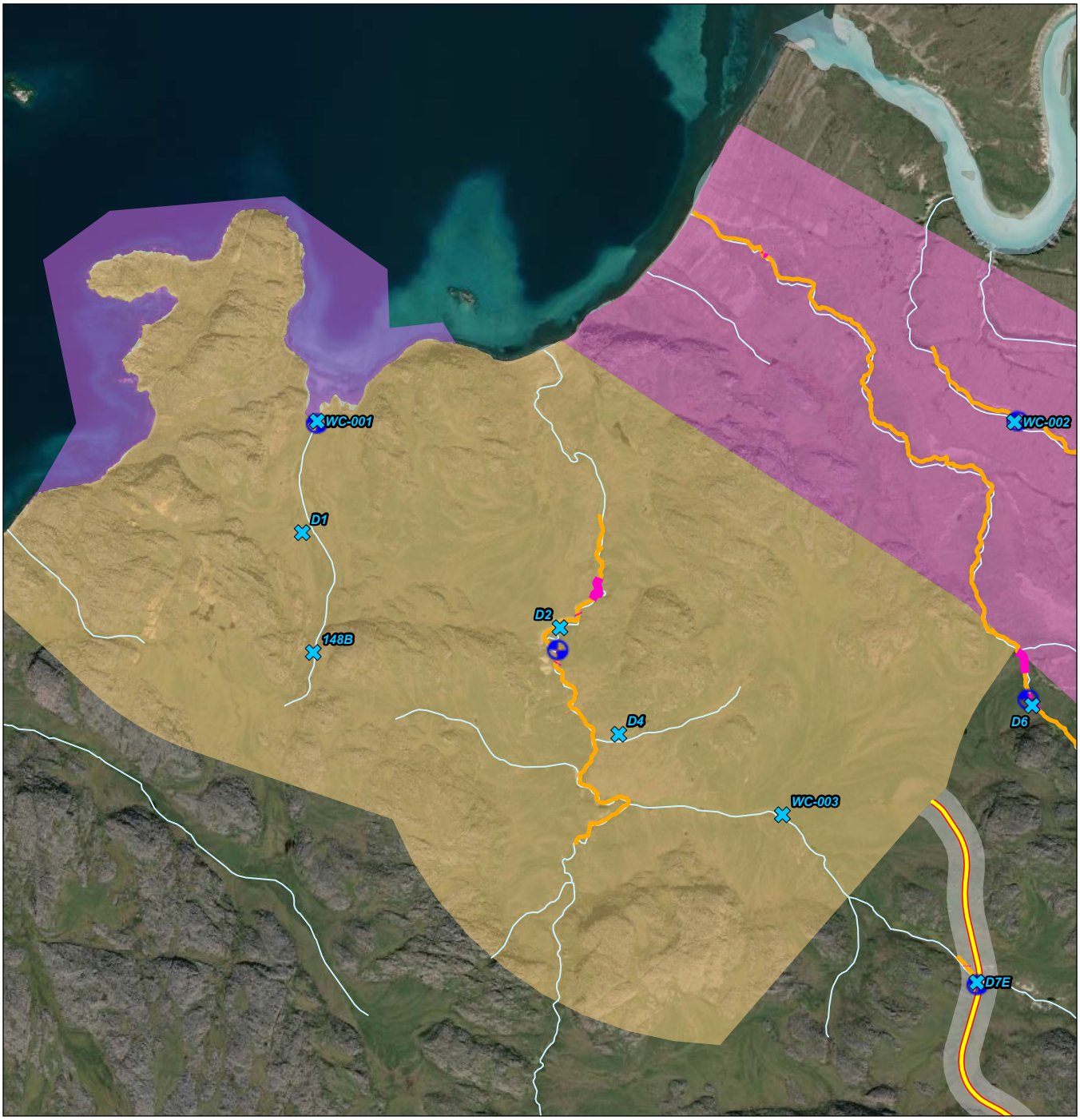
Client/Project
123514868_114

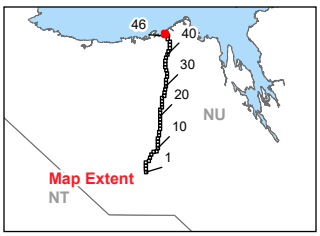
West Kitikmeot Resources Corp
Grays Bay Road and Port

Figure No.
B.2 **46 of 49**

Title
Grays Bay Road Watercourse Crossings

\\Ca0002-ppfss05\geomatics\Clients\Nunami_Stantec\GBRP\Figures\123514868_114_Grays_Bay_Road_Watercourse_Crossings.pagx Revised: 2026-02-04 By: dcspry





Notes
1. Coordinate System: WGS 1984 UTM Zone 12N
2. Data Sources: Government of Canada, Stantec, Vantor

- Habitat Profile Transect
- Watercourse Crossing
- Water Quality
- Water Quantity
- Fishing Station
- Lake Habitat
- Stream Habitat Profile
- Grays Bay Road
- Grays Bay Winter Road
- Grays Bay Winter Road Optional Alignment

Project Development Area (PDA)

- Aerodrome
- Jericho Station
- Port (Landside Infrastructure)
- Port (Marine-based Infrastructure)
- Road
- Tibbitt to Contwoyto Winter Road
- Watercourse
- Waterbody

0 250 500 Metres
(At original document size of 8.5x11) 1:25,000

N

NUNAMI STANTEC LIMITED

WEST KITIKMEOT RESOURCES CORP

Project Location
West Kitikmeot Region
Nunavut

Prepared by DS on 2026-02-02
TR by SL on 2026-02-02

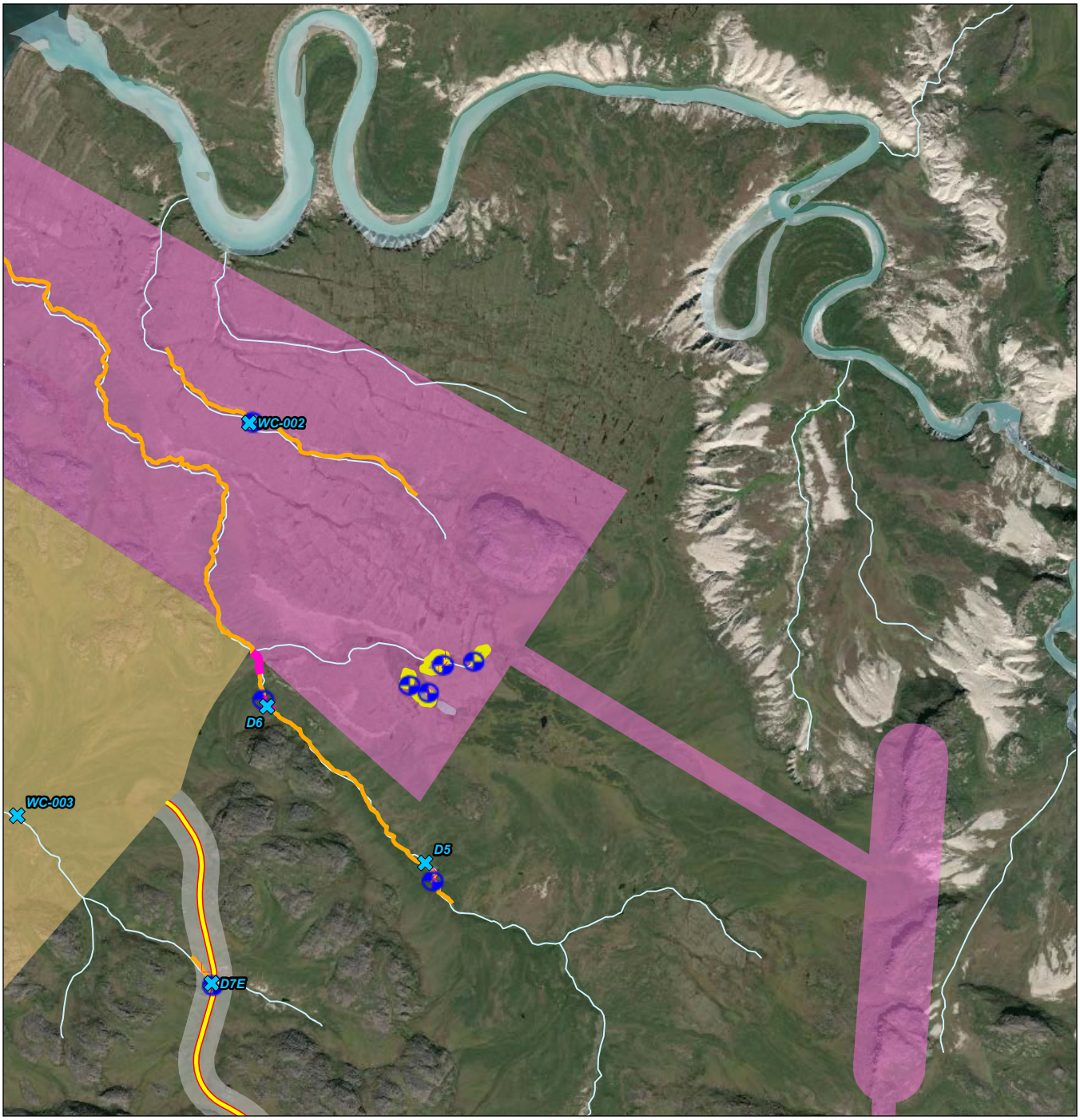
Client/Project
123514868_114

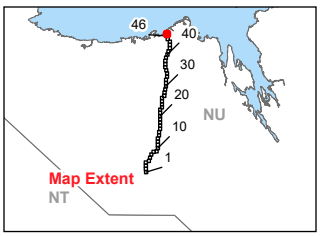
West Kitikmeot Resources Corp
Grays Bay Road and Port

Figure No.
B.2 **47 of 49**

Title
Grays Bay Road Watercourse Crossings

\\Ca0002-ppfss05\geomatics\Clients\Nunami_Stantec\GBRP\Figures\123514868_114_Grays_Bay_Road_Watercourse_Crossings.pagx Revised: 2026-02-04 By: dcspry





Notes
1. Coordinate System: WGS 1984 UTM Zone 12N
2. Data Sources: Government of Canada, Stantec, Vantor

- Habitat Profile Transect
- Watercourse Crossing
- Water Quality
- Water Quantity
- Fishing Station
- Lake Habitat
- Stream Habitat Profile
- Grays Bay Road
- Grays Bay Winter Road
- Grays Bay Winter Road Optional Alignment

Project Development Area (PDA)
- Aerodrome
- Jericho Station
- Port (Landside Infrastructure)
- Port (Marine-based Infrastructure)
- Road
- Tibbitt to Contwoyto Winter Road
- Watercourse
- Waterbody

0 250 500 Metres
(At original document size of 8.5x11) 1:25,000

N

NUNAMI STANTEC LIMITED

WEST KITIKMEOT RESOURCES CORP

Project Location
West Kitikmeot Region
Nunavut

Prepared by DS on 2026-02-02
TR by SL on 2026-02-02

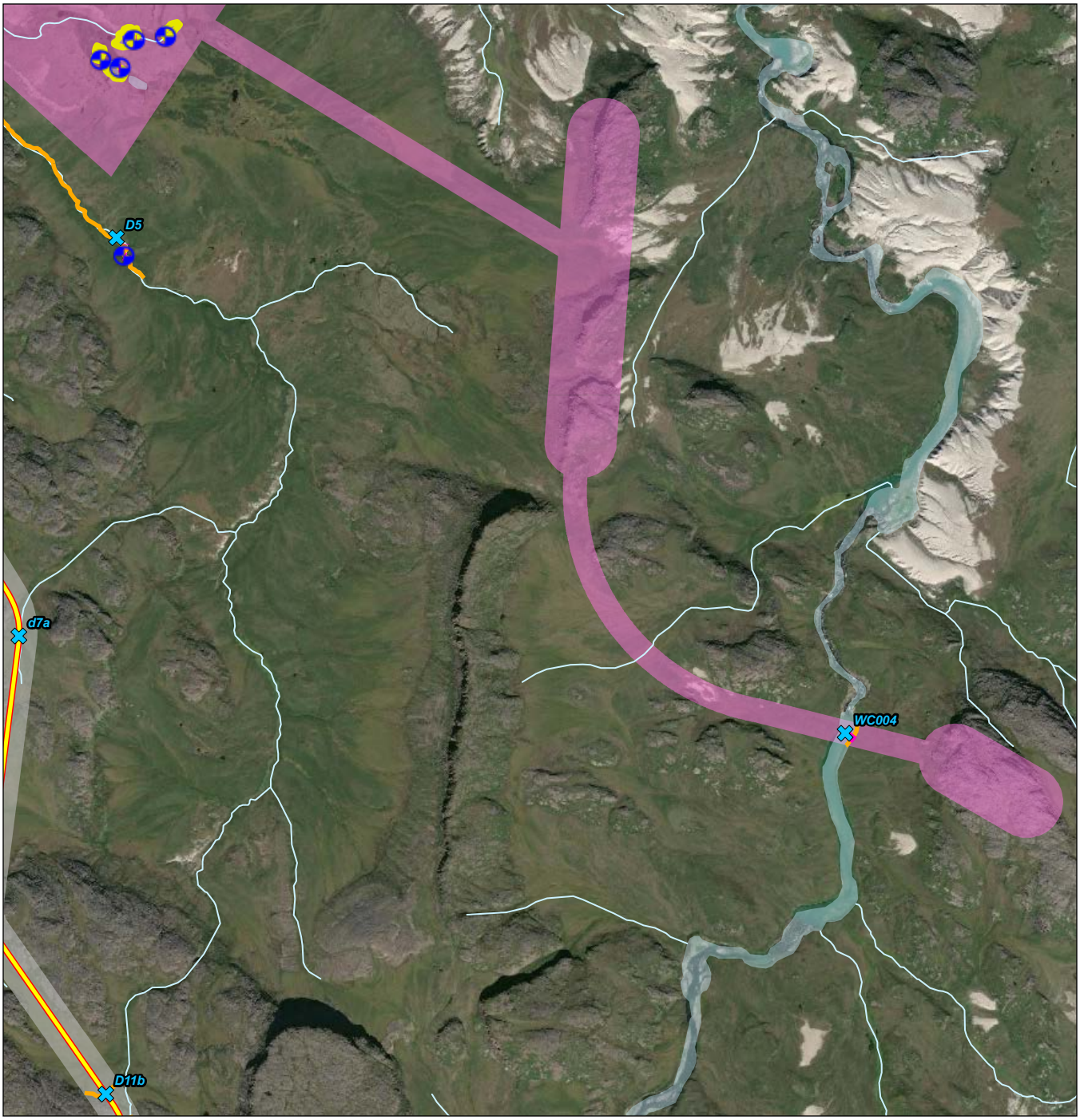
Client/Project
123514868_114

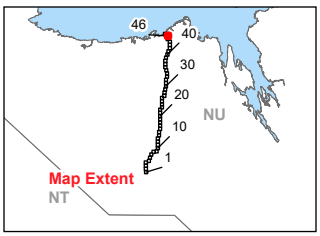
West Kitikmeot Resources Corp
Grays Bay Road and Port

Figure No.
B.2 **48 of 49**

Title
Grays Bay Road Watercourse Crossings

\\Ca0002-ppfss05\geomatics\Clients\Nunami_Stantec\GBRP\Figures\123514868_114_Grays_Bay_Road_Watercourse_Crossings.pagx Revised: 2026-02-04 By: dcspry





Notes
1. Coordinate System: WGS 1984 UTM Zone 12N
2. Data Sources: Government of Canada, Stantec, Vantor

- Habitat Profile Transect
- Watercourse Crossing
- Water Quality
- Water Quantity
- Fishing Station
- Lake Habitat
- Stream Habitat Profile
- Grays Bay Road
- Grays Bay Winter Road
- Grays Bay Winter Road Optional Alignment

Project Development Area (PDA)
- Aerodrome
- Jericho Station
- Port (Landside Infrastructure)
- Port (Marine-based Infrastructure)
- Road
- Tibbitt to Contwoyto Winter Road
- Watercourse
- Waterbody

0 250 500 Metres
(At original document size of 8.5x11) 1:25,000

N

NUNAMI STANTEC LIMITED

WEST KITIKMEOT RESOURCES CORP

Project Location
West Kitikmeot Region
Nunavut

Prepared by DS on 2026-02-02
TR by SL on 2026-02-02

Client/Project
123514868_114

West Kitikmeot Resources Corp
Grays Bay Road and Port

Figure No.
B.2 **49 of 49**

Title
Grays Bay Road Watercourse Crossings

\\Ca0002-ppfss05\geomatics\Clients\Nunami_Stantec\GBRP\Figures\123514868_114_Grays_Bay_Road_Watercourse_Crossings.pagx Revised: 2026-02-04 By: dcspry

Appendix C Fish and Fish Habitat Results

C.1 Port LAA Fish and Fish Habitat

Table C.1-1 Fish Habitat Assessment Profiles at Stream Reaches within Port and Aerodrome PDA, 2024 and 2025

Watercourse ID	Watershed	Stream Class	Habitat Unit Length (m)	Dominant Habitat Type	Morphology (%)				Riparian (%)				Substrates (%)									Total Cover (%)	Overhead Cover (%)			Instream Cover (%)				Aquatic Vegetation					Comment
					Riffle	Pool	Run	Flat	Bare	Grass	Shrub	Wetland	Organics	Fines	Sand	Small Gravel	Large Gravel	Cobble	Small Boulder	Large Boulder	Bedrock		Undercut Bank	Grasses	Shrubs	Small Woody Debris	Boulders	Water Visibility	Instream Vegetation	Emergent	Submergent	Floating Leafed	Free Floating	Algae	
D2	Arctic Ocean	Small Permanent	940	Flat	5	15	0	80	5	90	5	0	30	25	5	15	15	5	3	2	0	40	0	10	2	15	0	20	25	25	0	0	0	75	Numerous fish observed throughout surveyed reach (LKTR, NNST).
			1500	Run 2 (0.5 – 1.0 m)	10	10	60	20	5	70	25	0	3	5	2	15	10	40	15	10	0	30	0	10	20	10	25	5	15	0	0	0	0	100	Numerous fish observed throughout the reach, juvenile LKTR, small-bodied fish.
D4	Arctic Ocean	Ephemeral	110	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3 shallow ponds (<1 m wetted depth) at D4
D5	Kennartic River	Small Permanent	673	Flat	0	25	0	75	0	40	20	40	50	50	0	0	0	0	0	0	0	25	0	40	15	25	0	100	60	40	25	10	0	25	Wetland with lots grass and aquatic vegetation, with undefined channel areas that flow overland. Primarily organic silt substrate, turbid water. No fish observed in surveyed reach.
			510	Run 2 (0.5 – 1.0 m)	20	15	50	15	0	75	25	0	15	15	10	15	15	15	10	5	0	40	0	40	10	10	10	60	25	25	0	0	0	75	Watercourse is turbid, potentially from rain on previous day. No fish observed.
D6	Kennartic River	Small Permanent	510	Run 2 (0.5 – 1.0 m)	20	15	50	15	0	75	25	0	15	15	10	15	15	15	10	5	0	40	0	40	10	10	10	60	25	25	0	0	75	0	Predominantly run habitat with alternating riffle-pool/flat habitat. Watercourse is turbid, potentially from rain on previous day. No fish observed.
			1300	Flat	10	25	15	50	5	45	25	25	20	20	20	10	10	5	9	5	1	40	5	20	20	25	10	85	40	30	25	5	0	40	Predominantly flat habitat with pools, areas of flat/run alternating riffle-pool habitat. Riparian predominantly grass shrub, lots of SWD and aquatic veg in flat pools. LKTR and small bodied fish observed just downstream of crossing
			912	Flat	0	30	0	70	0	35	25	40	30	20	20	15	15	0	0	0	0	25	30	20	25	30	0	80	40	30	40	5	5	20	Flat habitat with pools with very turbid water, SWD, grasses and shrub for cover.
			415	Flat	0	30	0	70	0	50	15	35	50	50	0	0	0	0	0		0	20	5	20	5	5	0	100	25	100	0	0	0	0	Predominantly flat habitat with deep pools, and lots of riparian grass. Very turbid water, could not see bottom.
			440	Riffle	60	5	25	10	10	60	30	0	5	5	10	15	10	10	20	20	5	60	5	5	5	0	15	80	5	100	0	0	0	0	Riffle habitat with some runs, lots of cobble, boulder substrates. Some areas of cascade near falls. Sculpins observed.
			260	Flat	0	20	0	80	10	50	20	20	25	25	25	25	0	0	0	0	0	75	5	15	5	0	0	80	5	80	20	0	0	0	Large flat channel with gravel and fine substrates. Stickleback observed.
WC-001	Arctic Ocean	Small Permanent	75	Flat	0	25	0	75	5	70	5	20	40	40	4	5	5	5	0	1	0	45	0	5	0	0	0	0	50	25	25	0	0	50	Small defined channel downstream of wetland before confluence with Arctic Ocean. Small bodied fish observed (stickleback). Lots of instream vegetation.
WC-002	Kennartic River	Small Permanent	1600	Wetland	0	0	0	100	5	20	5	75	50	50	0	0	0	0	0	0	0	65	0	65	5	25	0	40	75	25	25	0	0	50	Wetland/marsh with areas of some defined channel DS. Channel becomes undefined/overland through grasses then ends in low lying area. No fish habitat observed. No fish observed during survey.
WC-004	Kennartic River	Large Permanent	111	Run 1 (>1.0 m)	0	0	100	0	5	45	50	0	0	95	0	0	0	0	0	0	0	98	0	0	0	0	5	95	3	0	100	0	0	0	Streamline follows the right bank

Table C.1-2 Fish Habitat Assessment for Transects at Stream Reaches within Port and Aerodrome PDA, 2024-2025

Watercourse ID	Transect	Habitat Unit	Wetted Width (m)	Channel Width (m)	Wetted Depth (m)			Bankfull Max Depth (m)	Gradient (%)	Crown Closure (%)	Bank Height (m)		Bank Slope (°)		Bank Material (Dominant, Subdominant)			
					25% from LB (m)	50% from LB (m)	75% from LB (m)				Left	Right	Left	Right	Left		Right	
D2	T1	Flat	1.30	1.30	0.15	0.18	0.22	0.40	2	0	2.0	1.8	45	90	Organics	Fines	Organics	Fines
	T2	-	0.55	0.72	0.15	0.19	0.11	0.30	3	0	3.2	1.0	55	10	Organics	Fines	Organics	Fines
	T3	Riffle	1.65	2.00	0.22	0.24	0.31	-	2	0	3.0	1.2	35	45	Organics	Fines	Organics	Fines
	T4	-	1.90	2.00	0.65	0.71	0.58	0.90	1	0	1.2	2.3	30	30	Organics	Fines	Organics	Fines
	T5	Flat	1.30	1.30	0.77	0.81	0.80	1.20	1	0	1.8	1.8	90	90	Organics	Fines	Organics	Fines
	T6	Flat	1.80	2.00	0.44	0.51	0.42	0.60	1	0	3.0	3.2	35	65	Organics	Fines	Organics	Fines
	T7	Run 1 (>1.0 m)	1.20	1.20	0.55	0.61	0.53	0.80	1	0	1.5	2.3	30	55	Organics	Fines	Organics	Fines
	T8	Riffle	2.20	3.40	0.54	0.64	0.33	1.50	3	0	4.0	1.5	70	90	Organics	Fines	Cobble	Large Gravel
D4	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5	T1	-	0.60	0.80	0.12	0.16	0.14	0.20	3	0	1.8	1.2	60	60	Organics	Fines	Organics	Fines
	T2	Riffle	0.90	0.90	0.15	0.21	0.12	-	3	0	1.5	1.2	70	55	Organics	Fines	Organics	Fines
	T3	Flat	0.55	0.60	0.22	0.21	0.18	0.25	1	0	0.5	0.8	30	30	Organics	Fines	Organics	Fines
	T4	Flat	1.30	1.30	0.51	0.54	0.41	0.60	0	0	0.8	0.8	75	75	Organics	Fines	Organics	Fines
	T5	-	2.80	2.80	0.33	0.15	0.08	0.35	0	0	1.1	0.3	30	10	Organics	Fines	Organics	Fines
	T6	Flat	2.80	2.80	0.60	0.53	0.52	0.65	0	0	1.2	1.0	45	30	Organics	Fines	Organics	Fines
D6	T1	Flat	0.55	0.55	0.20	0.20	0.17	-	1	0	0.5	0.5	30	30	Organics	Fines	Organics	Fines
	T2	Riffle	0.39	0.48	0.19	0.23	0.17	0.45	2	0	0.7	0.8	90	90	Organics	Fines	Organics	Fines
	T3	Riffle	2.20	2.20	0.45	0.22	0.28	0.50	2	0	0.9	0.7	45	45	Organics	Sand	Organics	Fines
	T4	Flat	0.65	0.65	0.40	0.41	0.36	0.60	0	0	1.0	0.9	90	90	Organics	Fines	Organics	Fines
	T5	Run 1 (>1.0 m)	1.60	1.60	0.81	0.83	0.80	1.00	1	0	1.5	1.5	90	90	Organics	Fines	Organics	Fines
	T6	Riffle	0.65	0.65	0.33	0.35	0.27	0.50	1	0	0.7	0.7	90	90	Organics	Fines	Organics	Fines
	T7	Flat	0.58	0.60	0.12	0.14	0.11	0.40	1	0	1.2	1.8	90	60	Organics	Fines	Organics	Fines
	T8	Pool 1 (>1.0 m)	3.00	3.30	0.60	0.88	0.86	1.20	0	0	1.5	1.5	90	60	Organics	Fines	Organics	Fines
	T9	Flat	2.80	3.00	0.11	0.13	0.09	0.40	0	0	2.0	1.3	80	90	Organics	Fines	Organics	Fines
	T10	Flat	3.20	5.00	0.70	0.92	0.91	2.40	2	0	0.4	0.2	20	5	Fines	Organics	Fines	Organics
	T11	Flat	2.20	2.20	0.68	0.60	0.53	0.72	2	0	0.0	0.1	90	70	Fines	Organics	Fines	Organics
	T12	Flat	4.50	7.50	0.91	0.72	0.14	1.16	2	2	0.3	0.1	15	30	Fines	Organics	Fines	Organics
	T13	Riffle	1.10	3.10	0.08	0.28	0.24	0.48	2	0	0.1	1.0	30	90	Bedrock	Bedrock	Fines	Organics
	T14	Riffle	6.40	6.60	0.10	0.31	0.25	0.70	5	0	0.4	0.4	90	90	Small boulder	Large boulder	Cobble	Fines
	T15	Riffle	10.00	12.30	0.17	0.19	0.20	1.20	0	0	0.9	0.7	60	70	Small boulder	Large boulder	Small boulder	Organics
	T16	Run 1 (>1.0 m)	5.40	11.50	0.18	0.49	0.16	1.30	3	0	0.7	1.0	20	15	Sand	Organics	Sand	Organics
	T17	Flat	1.90	2.90	0.42	0.65	0.71	1.16	3	0	0.4	0.5	30	25	Fines	Organics	Fines	Organics
	T18	Flat	5.50	7.10	0.56	0.71	0.64	1.10	1	0	0.3	1.0	10	20	Sand	Organics	Sand	Organics

Table C.1-2 Fish Habitat Assessment for Transects at Stream Reaches within Port and Aerodrome PDA, 2024-2025

Watercourse ID	Transect	Habitat Unit	Wetted Width (m)	Channel Width (m)	Wetted Depth (m)			Bankfull Max Depth (m)	Gradient (%)	Crown Closure (%)	Bank Height (m)		Bank Slope (°)		Bank Material (Dominant, Subdominant)			
					25% from LB (m)	50% from LB (m)	75% from LB (m)				Left	Right	Left	Right	Left		Right	
WC-001	T1	Flat	1.45	1.45	0.55	0.67	0.71	0.80	1	0	0.8	0.8	70	70	Organics	Fines	Organics	Fines
WC-002	T1	Riffle	0.33	0.35	0.04	0.03	0.02	-	5	0	3	2.8	80	80	Fines	Organics	Fines	Organics
	T2	Flat	2.10	2.90	0.12	0.40	0.44	-	0	0	3.5	1.1	80	80	Organics	Fines	Organics	Fines
	T3	Flat	1.30	2.10	0.11	0.13	0.09	0.30	0	0	3	0.8	60	30	Organics	Fines	Organics	Fines
	T4	Flat	3.00	3.00	0.05	0.05	0.05	-	0	0	3	2.0	30	30	Organics	Fines	Organics	Fines
	T5	Flat	1.20	1.50	0.00	0.05	0.05	0.10	0	0	0.5	0.5	30	30	Organics	Fines	Organics	Fines
WC-004	T1	Run 1 (>1.0 m)	70	75	-	-	-	-	1	0	2	3	10	5	Organics	Fines	Organics	Fines
	T2	Run 1 (>1.0 m)	70	75	-	-	-	-	1	0	3	3	5	5	Organics	Fines	Organics	Fines
	T3	Run 1 (>1.0 m)	-	-	-	-	-	-	1	0	-	0.5	-	5	Organics	Fines	Organics	Fines

Table C.1-3 Fishing Effort Summary Results for Watercourses in the Port and Aerodrome PDA, 2024-2025

Sampling Effort	Sampling ID	Sampling Date	End Date	Set Time (hh:mm)	Lift Time (hh:mm)	Fishing Hours (h)	# of Traps	Set Depth/ Site Length (m)	Electrofishing Details	Effort[1]	Ninespine Stickleback		Lake Trout	
											Catch	CPUE	Catch	CPUE
Backpack Electrofishing	D2-EF-01	2-Aug-24	2-Aug-24	20:57	21:18	-	-	114	350 V, 60 Hz	393	17	4.3	0	0.0
	D5-EF-01	4-Aug-24	4-Aug-24	20:05	21:04	-	-	65	350 V, 60 Hz	368	0	0	1	0.3
	D6-EF-01	4-Aug-24	4-Aug-24	19:48	21:02	-	-	50	350 V, 60 Hz	659	0	0	1	0.2
	D6-EF-02	4-Aug-24	4-Aug-24	20:31	21:02	-	-	106	350 V, 60 Hz	356	0	0	1	0.3
Minnow Trapping	P1-MT-01	9-Aug-24	10-Aug-24	15:56	16:59	25.05	1	0.8	-	25.0	0	0	0	0
	P1-MT-02	9-Aug-24	10-Aug-24	15:58	16:58	25.00	1	0.4	-	25.0	0	0	0	0
	P1-MT-03	9-Aug-24	10-Aug-24	16:00	16:01	24.02	1	1.0	-	24.0	0	0	0	0
	P2-MT-01	9-Aug-24	10-Aug-24	16:11	16:11	24.00	2	0.5	-	48.0	0	0	0	0
	P3-MT-02	9-Aug-24	10-Aug-24	16:26	17:09	24.72	1	0.8	-	24.7	0	0	0	0
	P4-MT-01	9-Aug-24	10-Aug-24	16:56	17:01	24.08	1	0.5	-	24.1	0	0	0	0
	D2-MT-01	2-Aug-24	2-Aug-24	18:27	20:17	1.83	2	0.4	-	3.7	43	11.7	0	0
	D2-MT-02	2-Aug-24	2-Aug-24	18:28	20:29	2.02	2	1.2	-	4.0	13	3.2	0	0
	D2-MT-03	2-Aug-24	2-Aug-24	18:24	20:38	2.23	2	1.0	-	4.5	8	1.8	0	0
	D2-MT-04	2-Aug-24	2-Aug-24	18:27	20:40	2.22	2	0.8	-	4.4	11	2.5	0	0
	D5-MT-01	2-Aug-24	2-Aug-24	16:29	19:04	2.58	2	0.5	-	5.2	0	0	0	0
	D5-MT-02	4-Aug-24	4-Aug-24	16:26	19:04	2.63	2	0.5	-	5.3	0	0	0	0
	D5-MT-03	4-Aug-24	4-Aug-24	16:28	19:04	2.60	2	0.5	-	5.2	0	0	0	0
	D5-MT-04	4-Aug-24	4-Aug-24	16:32	19:04	2.53	2	0.5	-	5.1	0	0	0	0
	WC-004	24-Jul-25	24-Jul-25	21:10	21:56	0.77	6	1.0	-	4.6	2	0.4	0	0

Notes:

CPUE = catch per unit effort.

[1] Units for effort for backpack electrofishing = seconds, minnow trapping = hours.

Table C.1-4 In Situ Water Quality Sampling Results from Stream Reaches within Port and Aerodrome PDA, August 2024

Site ID	Station ID	Date	Water Quality Results							
			Depth	Temp	DO	DO	SPC	pH	Turbidity	ORP
			(m)	(°C)	(%)	(mg/L)	(µs/cm)		(NTU)	(mV)
D2	D2-WQ-01	2-Aug-24	0.30	11.0	9.55	96.0	406.0	7.62	1.22	139.30
D5	D5-WQ-01	4-Aug-24	0.44	10.0	7.11	79.6	451.0	7.62	23.45	96.20
D6	D6-WQ-01	4-Aug-24	0.40	10.0	8.63	89.0	430.0	7.37	6.73	68.50
WC-001	WC-001-WQ-01	1-Aug-24	0.50	15.0	18.00	196.0	132.1	6.87	1.93	172.80
WC-002	WC-002-WQ-01	1-Aug-24	0.50	14.0	6.85	71.0	155.7	7.11	3.11	131.60
Air strip	P1_WQ-01	9-Aug-24	0.20	16.8	9.87	101.7	89.0	7.56	3.04	135.00
Air strip	P2_WQ-01	9-Aug-24	0.40	18.2	8.65	96.7	85.1	7.82	3.11	140.50
Air strip	P3_WQ-01	9-Aug-24	0.30	17.6	7.19	73.4	107.7	7.65	2.89	133.60
Air strip	P4_WQ-01	9-Aug-24	0.35	18.1	9.12	96.1	144.0	6.95	2.14	120.00

C.2 PWI-1 Fish and Fish Habitat Results

Table C.2-1 Fish Habitat Assessment for PWI-1, August 2024

Habitat Unit	Riparian Composition (%)				Riparian Bank Stability	Substrate Composition (%)									Overhead Cover (%)		Instream Cover (%)					Instream Vegetation (%)						Comments
	Rocky[1]	Grass	Shrub	Wetland		Organics	Fines	Sand	Small Gravel	Large Gravel	Cobble	Small Boulder	Larger Boulder	Bedrock	Total	Riparian	Total	SWD	Cobble	Boulder	Vegetation	Emergent	Floating Leafed	Free Floating	Submerged	Filamentous Algae	Macrophytic Algae	
1	0	15	75	10	Stable	45	40	0	0	0	0	5	5	0	10	10	80	15	0	10	50	25	0	0	75	0	0	Organic substrates with occasional boulder. Shrubs and grass riparian. Lots of aquatic vegetation. Water quite turbid, difficult to see substrates and habitat. Lots of NNST observed.
2	50	25	25	0	Stable	0	10	10	10	10	30	15	15	0	10	5	30	0	20	10	0	100	0	0	0	0	0	Cobble, boulder riparian and littoral area. Fine sediment overlaying coarse. lots of NNST observed.
3	0	25	75	0	Stable	40	40	0	0	0	5	10	5	0	10	20	80	25	5	10	45	25	0	0	75	0	0	Similar habitat to habitat unit 1, NNST everywhere.
4	40	30	30	0	Stable	0	25	10	15	15	15	10	10	0	5	5	30	0	20	10	5	50	0	0	0	0	50	Boulder, shrub and grass riparian. Predominantly coarse substrates with fines overlaying. Three sandy beaches in surveyed area. Lots of NNST.
5	20	20	60	0	Stable	10	20	20	0	10	10	10	20	0	10	10	20	0	0	15	5	100	0	0	0	0	0	Boulder, shrub and grass riparian. Sandy beach located within habitat unit 5.
6	25	25	25	25	Stable	20	10	10	0	0	30	20	10	0	20	10	10	0	0	30	20	0	0	0	0	0	0	Riparian is wetland grasses, boulders and shrubs. Similar substrate to other transects, different riparian.
7	90	0	10	0	Stable	0	20	20	0	0	0	15	15	30	5	0	0	0	0	30	0	0	0	0	0	0	0	Bedrock shoreline with traces of shrubs. Cliff/drop to >1 m depth.
8	15	40	25	25	Stable	20	20	20	0	0	0	20	20	0	20	0	15	0	0	10	5	100	0	0	0	0	0	-
9	80	0	20	0	Stable	10	30	5	0	0	5	10	10	30	5	0	30	0	0	30	0	0	0	0	0	0	0	Mostly bedrock shoreline, some small and large boulders.
10	70	5	25	0	Stable	0	10	0	0	0	0	25	30	30	10	10	40	10	0	40	0	0	0	0	0	0	0	Shoreline alternates between bedrock and small/large boulders.

Notes:
[1] Rocky shorelines were comprised of coarse substrates (i.e., cobble, boulder, bedrock).

Table C.2-2 Fish Capture Records for PWI-1, August 2024

Sampling Method	Sampling ID	Sampling Date	Set Time (hh:mm)	Lift Time (hh:mm)	Fishing Hours (h)	# of Traps	Set Depth/Site Length (m)	Net Dimensions	Electrofishing Details	Effort[1]	Ninespine Stickleback	
											Catch	CPUE
Backpack Electrofishing	PL-EF-01	5-Aug-2024	16:48:58	17:15:12	-	-	95	-	350 V, 40 Hz, 2 ms	456	125	16.4
Minnow Trapping	PL-MT-01	5-Aug-2024	16:12:00	21:23:16	5.19	2	0.4	-	-	10.4	450	43.4
	PL-MT-02	5-Aug-2024	16:18:39	21:25:24	5.11	2	0.3	-	-	10.2	160	15.6
	PL-MT-03	5-Aug-2024	16:25:53	21:30:41	5.08	3	0.4	-	-	15.2	420	27.6
									TOTAL	35.8	1,030	86.6
Gill Netting	PL-GN-01	6-Aug-2024	20:03:00	21:25:28	1.37	-	-	1/2 to 4 inch mesh 200 m x 1.5 m	-	1.4	0	0
	PL-GN-02	7-Aug-2024	16:11:18	17:58:58	1.79	-	-	1/2 to 4 inch mesh 200 m x 1.5 m	-	1.8	0	0
	PL-GN-03	7-Aug-2024	16:17:56	18:09:07	1.85	-	-	1/2 to 4 inch mesh 200 m x 1.5 m	-	1.9	0	0
	PL-GN-04	7-Aug-2024	18:18:27	19:37:32	1.32	-	-	1/2 to 4 inch mesh 200 m x 1.5 m	-	1.3	0	0
	PL-GN-05	7-Aug-2024	18:26:51	19:47:46	1.35	-	-	1/2 to 4 inch mesh 200 m x 1.5 m	-	1.3	0	0
									TOTAL	7.7	0	0
Angling	PL-AN-01	7-Aug-2024	16:50:22	17:14:39	0.40	-	1,200	-		0.4	0	0
	PL-AN-02	7-Aug-2024	17:12:00	17:22:50	0.18	-	465	-	-	0.2	0	0
	PL-AN-03	7-Aug-2024	18:28:52	18:36:56	0.13	-	611	-	-	0.1	0	0
									TOTAL	0.7	0	0

Notes: CPUE = catch per unit effort.

[1] Units for effort for backpack electrofishing = seconds, minnow trapping, gill netting, and angling = hours.

Table C.2-3 Vertical Water Column Profiles for PWI-1 Quality Sampling Locations, August 2024

PWI-1-1						
Depth	**Temperature (ºC)**	**DO (mg/L)**	**DO (%)**	**SPC (µS/cm)**	**Turbidity (NTU)**	**pH**
0.5	13.40	10.96	105.1	184.0	4.20	7.85
1.0	12.90	11.03	105.0	184.2	4.20	7.85
1.5	12.50	11.02	103.8	184.1	4.49	7.86
2.0	12.20	10.94	101.9	183.9	4.76	7.84
2.5	11.96	10.78	100.3	184.1	4.64	7.87
3.0	11.93	10.70	99.2	184.1	4.99	7.87
3.5	11.88	10.54	97.5	184.0	5.20	7.81
4.0	11.81	10.52	97.3	184.1	4.95	7.77
4.5	11.81	10.51	97.1	184.1	5.09	7.74
5.0	11.79	9.91	90.8	184.5	6.11	7.46
PWI-1-2						
Depth	**Temperature (ºC)**	**DO (mg/L)**	**DO (%)**	**SPC (µS/cm)**	**Turbidity (NTU)**	**pH**
0.5	13.54	11.00	105.7	184.4	4.70	7.78
1.0	13.28	10.99	104.1	184.4	5.27	7.76
1.5	12.58	11.01	103.0	184.1	5.25	7.73
2.0	12.27	10.92	101.5	184.5	6.22	7.67
2.5	12.08	10.65	99.3	184.7	8.76	7.62
PWI-1-3						
Depth	**Temperature (ºC)**	**DO (mg/L)**	**DO (%)**	**SPC (µS/cm)**	**Turbidity (NTU)**	**pH**
0.5	14.03	10.80	100.2	182.2	3.32	7.82
1.0	12.67	10.89	102.6	183.1	3.82	7.79
1.5	12.01	10.93	102.1	183.1	4.12	7.81
2.0	12.03	10.88	101.0	184.1	4.44	7.75

Notes:
DO = dissolved oxygen; SPC = specific conductivity.

Table C.2-4 Water Quality Data for PWI-1 Sampling Locations, August 2024

Parameter	LDL	Units	Health Canada[a]	CCME WQG-FAL[b]		PWI-1-1-S	PWI-1-2-S	PWI-1-3-S	PWI-1-1-B	PWI-1-2-B	PWI-1-3-B	Summary Statistics[c]					
				Short-term	Long-term	06-Aug-2024	06-Aug-2024	06-Aug-2024	06-Aug-2024	06-Aug-2024	06-Aug-2024	n	min	max	median	mean	std dev
Physical Tests																	
Alkalinity, total (as CaCO3)	2.0	mg/L	-	-	-	15.4	15.4	15.2	15.2	15.2	15.4	6	15.2	15.4	15.3	15.3	0.1
Hardness (as CaCO3), dissolved	0.60	mg/L	-	-	-	29.4	29.6	29.4	30.8	29.6	29.6	6	29.4	30.8	29.6	29.7	0.5
Hardness (as CaCO3), from total	0.60	mg/L	-	-	-	32.9	32.4	33.1	34.0	32.9	33.7	6	32.4	34.0	33.0	33.2	0.6
Total suspended solids	3.0	mg/L	-	-	-	4.0	4.6	4.0	4.2	5.2	5.2	6	4.0	5.2	4.4	4.5	0.6
Anions and Nutrients																	
Ammonia, total (as N)	0.0050	mg/L	-	-	0.715	<0.0050	<0.0050	<0.0050	<0.0050	0.0062	<0.0050	6	<0.0050	<0.0062	0.0050	0.0052	0.0005
Bromide	0.050	mg/L	-	-	-	0.162	0.163	0.164	0.166	0.163	0.164	6	0.162	0.166	0.164	0.164	0.001
Chloride	0.50	mg/L	250	640	120	46.6	46.7	46.6	47.6	46.8	46.8	6	46.6	47.6	46.8	46.9	0.4
Fluoride	0.020	mg/L	1.50	-	-	0.029	0.027	0.028	0.027	0.025	0.027	6	0.025	0.029	0.027	0.027	0.001
Total kjeldahl nitrogen	0.050	mg/L	-	-	-	0.326	0.326	0.308	0.349	0.329	0.339	6	0.308	0.349	0.328	0.330	0.014
Nitrate (as N)	0.0050	mg/L	45	550	13	<0.0050	0.0058	<0.0050	<0.0050	<0.0050	<0.0050	6	<0.0050	0.0058	0.0050	0.0051	0.0003
Nitrite (as N)	0.0010	mg/L	3.0	-	0.197	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	6	<0.0010	<0.0010	<0.0010	<0.0010	-
Phosphorus, total	0.0020	mg/L	-	-	-	0.0136	0.0127	0.0134	0.0153	0.0183	0.014	6	0.0127	0.0183	0.0138	0.0146	0.0020
Sulfate (as SO4)	0.30	mg/L	-	-	-	3.33	3.29	3.30	3.49	3.30	3.32	6	3.29	3.49	3.31	3.34	0.08
Organic / Inorganic Carbon																	
Dissolved organic carbon	0.50	mg/L	-	-	-	4.88	5.30	5.72	4.51	4.42	5.27	6	4.42	5.72	5.08	5.02	0.50
Total Metals																	
Aluminum	0.0030	mg/L	2.9	-	0.10	0.0507	0.0467	0.0517	0.0604	0.064	0.0634	6	0.0467	0.0640	0.0561	0.0562	0.0074
Antimony	0.00010	mg/L	0.006	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Arsenic	0.00010	mg/L	0.010	-	0.005	0.00035	0.00035	0.00038	0.00038	0.00040	0.00037	6	0.00035	0.00040	0.00038	0.00037	0.00002
Barium	0.00010	mg/L	2.0	-	-	0.00255	0.0026	0.00272	0.00293	0.0028	0.00267	6	0.00255	0.00293	0.00270	0.00271	0.00014
Beryllium	0.000100	mg/L	-	-	-	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	6	<0.000100	<0.000100	<0.000100	<0.000100	-
Bismuth	0.000050	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Boron	0.010	mg/L	5.0	29	1.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Cadmium	0.0000050	mg/L	0.0070	0.00067	0.000060	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	6	<0.0000050	<0.0000050	<0.0000050	<0.0000050	-
Calcium	0.050	mg/L	-	-	-	4.60	4.58	4.60	4.70	4.59	4.58	6	4.58	4.70	4.60	4.61	0.05
Cesium	0.000010	mg/L	-	-	-	0.000010	<0.000010	<0.000010	0.000011	0.000012	0.000011	6	<0.000010	0.000012	0.000011	0.00001	0.000001
Chromium	0.00050	mg/L	0.050	-	0.001 (CrVI); 0.0089 (CrIII)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	6	<0.00050	<0.00050	<0.00050	<0.00050	-
Cobalt	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Copper	0.00050	mg/L	2.0	-	0.0020	0.00115	0.00113	0.00116	0.00116	0.00132	0.0012	6	0.0011	0.0013	0.0012	0.0012	0.0001
Iron	0.010	mg/L	0.30	-	0.30	0.094	0.086	0.095	0.126	0.118	0.113	6	0.086	0.126	0.104	0.105	0.016
Lead	0.000050	mg/L	0.005	-	0.0010	<0.000050	<0.000050	<0.000050	0.000053	0.000054	<0.000050	6	<0.000050	0.000054	0.000050	0.000051	0.000002
Lithium	0.0010	mg/L	-	-	-	0.0015	0.0015	0.0015	0.0016	0.0016	0.0016	6	0.0015	0.0016	0.0016	0.0016	0.0001
Magnesium	0.0050	mg/L	-	-	-	5.20	5.08	5.26	5.42	5.20	5.40	6	5.08	5.42	5.23	5.26	0.13
Manganese	0.00010	mg/L	0.12	-	-	0.0372	0.0356	0.039	0.0583	0.048	0.0453	6	0.0356	0.0583	0.0422	0.0439	0.0085
Mercury	0.0000050	mg/L	0.0010	-	0.000026	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	6	<0.0000050	<0.0000050	<0.0000050	<0.0000050	-
Molybdenum	0.000050	mg/L	-	-	-	0.000063	0.000066	0.000062	0.000057	<0.000050	0.000052	6	<0.000050	0.000066	0.000060	0.000058	0.000006
Nickel	0.00050	mg/L	-	-	0.025	0.00050	<0.00050	<0.00050	0.00074	0.00065	0.00056	6	<0.00050	0.00074	0.00053	0.00058	0.00010
Phosphorus	0.050	mg/L	-	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	<0.050	<0.050	<0.050	<0.050	-
Potassium	0.050	mg/L	-	-	-	1.02	1.02	1.05	1.06	1.05	1.05	6	1.02	1.06	1.05	1.04	0.02
Rubidium	0.00020	mg/L	-	-	-	0.00105	0.00109	0.00111	0.00115	0.00122	0.0012	6	0.00105	0.00122	0.00113	0.00114	0.00007
Selenium	0.000050	mg/L	0.050	-	0.0010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Silicon	0.10	mg/L	-	-	-	0.29	0.28	0.28	0.32	0.32	0.34	6	0.28	0.34	0.31	0.31	0.03
Silver	0.000010	mg/L	-	-	0.00025	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Sodium	0.050	mg/L	200	-	-	24.6	24.8	25.6	25.8	24.9	25.9	6	24.6	25.9	25.3	25.3	0.6
Strontium	0.00020	mg/L	7.0	-	-	0.0247	0.0247	0.0246	0.025	0.0255	0.0238	6	0.0238	0.0255	0.0247	0.0247	0.0006
Sulfur	0.50	mg/L	-	-	-	1.19	1.22	1.32	1.09	1.17	1.20	6	1.09	1.32	1.20	1.20	0.07
Tellurium	0.00020	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	6	<0.00020	<0.00020	<0.00020	<0.00020	-
Thallium	0.000010	mg/L	-	-	0.0008	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Thorium	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Tin	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Titanium	0.00030	mg/L	-	-	-	0.00119	0.00100	0.00115	0.00144	0.00158	0.00159	6	0.00100	0.00159	0.00132	0.00133	0.00025
Tungsten	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Uranium	0.000010	mg/L	0.020	0.033	0.0015	0.000024	0.000024	0.000024	0.000024	0.000024	0.000024	6	0.000024	0.000024	0.000024	0.000024	0.000000
Vanadium	0.00050	mg/L	-	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	6	<0.00050	<0.00050	<0.00050	<0.00050	-
Zinc	0.0030	mg/L	5.0	0.044	0.0080	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	6	<0.0030	<0.0030	<0.0030	<0.0030	-
Zirconium	0.00020	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	6	<0.00020	<0.00020	<0.00020	<0.00020	-

Table C.2-4 Water Quality Data for PWI-1 Sampling Locations, August 2024

Parameter	LDL	Units	Health Canada[a]	CCME WQG-FAL[b]		PWI-1-1-S	PWI-1-2-S	PWI-1-3-S	PWI-1-1-B	PWI-1-2-B	PWI-1-3-B	Summary Statistics[c]					
				Short-term	Long-term	06-Aug-2024	06-Aug-2024	06-Aug-2024	06-Aug-2024	06-Aug-2024	06-Aug-2024	n	min	max	median	mean	std dev
Dissolved Metals																	
Aluminum	0.0010	mg/L	-	-	-	0.0123	0.0145	0.0135	0.0132	0.0153	0.0139	6	0.0123	0.0153	0.0137	0.0138	0.0010
Antimony	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Arsenic	0.00010	mg/L	-	-	-	0.00028	0.00027	0.00027	0.00029	0.00028	0.00026	6	0.00026	0.00029	0.00028	0.00028	0.00001
Barium	0.00010	mg/L	-	-	-	0.00205	0.00196	0.00195	0.00201	0.002	0.00192	6	0.00192	0.00205	0.00198	0.00198	0.00005
Beryllium	0.000100	mg/L	-	-	-	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	6	<0.000100	<0.000100	<0.000100	<0.000100	-
Bismuth	0.000050	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Boron	0.010	mg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Cadmium	0.0000050	mg/L	-	-	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	6	<0.0000050	<0.0000050	<0.0000050	<0.0000050	-
Calcium	0.050	mg/L	-	-	-	4.28	4.34	4.33	4.40	4.42	4.35	6	4.28	4.42	4.35	4.35	0.05
Cesium	0.000010	mg/L	-	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Chromium	0.00050	mg/L	-	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	6	<0.00050	<0.00050	<0.00050	<0.00050	-
Cobalt	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Copper	0.00020	mg/L	-	-	-	0.00114	0.00102	0.00099	0.00107	0.00108	0.00104	6	0.00099	0.00114	0.00106	0.00106	0.00005
Iron	0.010	mg/L	-	-	-	0.012	0.014	0.013	0.015	0.016	0.014	6	0.012	0.016	0.014	0.014	0.001
Lead	0.000050	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Lithium	0.0010	mg/L	-	-	-	0.0014	0.0014	0.0014	0.0014	0.0015	0.0014	6	0.0014	0.0015	0.0014	0.0014	0.0000
Magnesium	0.0050	mg/L	-	-	-	4.54	4.57	4.51	4.80	4.50	4.54	6	4.50	4.80	4.54	4.58	0.11
Manganese	0.00010	mg/L	-	2.47	-	0.00049	0.00064	0.00052	0.00056	0.00052	0.00038	6	0.00038	0.00064	0.00052	0.00052	0.00009
Mercury	0.0000050	mg/L	-	-	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	6	<0.0000050	<0.0000050	<0.0000050	<0.0000050	-
Molybdenum	0.000050	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Nickel	0.00050	mg/L	-	-	-	<0.00050	<0.00050	<0.00050	0.0007	<0.00050	<0.00050	6	<0.00050	0.00070	0.00050	0.00053	0.00008
Phosphorus	0.050	mg/L	-	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	<0.050	<0.050	<0.050	<0.050	-
Potassium	0.050	mg/L	-	-	-	1.00	1.00	1.00	1.08	1.03	0.984	6	0.984	1.08	1.00	1.02	0.03
Rubidium	0.00020	mg/L	-	-	-	0.00097	0.00100	0.00103	0.00103	0.00095	0.00096	6	0.00095	0.00103	0.00099	0.00099	0.00004
Selenium	0.000050	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Silicon	0.050	mg/L	-	-	-	0.165	0.172	0.178	0.186	0.187	0.170	6	0.165	0.187	0.175	0.176	0.009
Silver	0.000010	mg/L	-	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Sodium	0.050	mg/L	-	-	-	23.3	23.3	23.5	25.3	23.4	23.3	6	23.3	25.3	23.4	23.7	0.8
Strontium	0.00020	mg/L	-	-	-	0.0227	0.023	0.023	0.0251	0.0229	0.023	6	0.0227	0.0251	0.0230	0.0233	0.0009
Sulfur	0.50	mg/L	-	-	-	1.02	1.12	1.06	1.19	1.08	1.13	6	1.02	1.19	1.10	1.10	0.06
Tellurium	0.00020	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	6	<0.00020	<0.00020	<0.00020	<0.00020	-
Thallium	0.000010	mg/L	-	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Thorium	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Tin	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Titanium	0.00030	mg/L	-	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	6	<0.00030	<0.00030	<0.00030	<0.00030	-
Tungsten	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Uranium	0.000010	mg/L	-	-	-	0.000020	0.000020	0.000020	0.000018	0.000020	0.000020	6	0.000018	0.000020	0.000020	0.000020	0.000001
Vanadium	0.00050	mg/L	-	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	6	<0.00050	<0.00050	<0.00050	<0.00050	-
Zinc	0.0010	mg/L	-	0.044	0.0090	<0.0010	<0.0010	<0.0010	0.0014	<0.0010	<0.0010	6	<0.0010	0.0014	0.0010	0.0011	0.0002
Zirconium	0.00020	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	6	<0.00020	<0.00020	<0.00020	<0.00020	-
Volatile Organic Compounds																	
Chlorobenzene	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Chloromethane	5.0	µg/L	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6	<5.0	<5.0	<5.0	<5.0	-
Dichlorobenzene, 1,2-	0.50	µg/L	-	-	0.70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichlorobenzene, 1,3-	0.50	µg/L	-	-	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichlorobenzene, 1,4-	0.50	µg/L	5.0	-	26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloropropane, 1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloropropylene, cis+trans-1,3-	0.75	µg/L	-	-	-	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	6	<0.75	<0.75	<0.75	<0.75	-
Dichloropropylene, cis-1,3-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Tetrachloroethane, 1,1,1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Tetrachloroethane, 1,1,2,2-	0.20	µg/L	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	6	<0.20	<0.20	<0.20	<0.20	-
Trichloroethane, 1,1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Trichlorofluoromethane	0.50	µg/L	-	-	13.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-

Table C.2-4 Water Quality Data for PWI-1 Sampling Locations, August 2024

Parameter	LDL	Units	Health Canada[a]	CCME WQG-FAL[b]		PWI-1-1-S	PWI-1-2-S	PWI-1-3-S	PWI-1-1-B	PWI-1-2-B	PWI-1-3-B	Summary Statistics[c]					
				Short-term	Long-term	06-Aug-2024	06-Aug-2024	06-Aug-2024	06-Aug-2024	06-Aug-2024	06-Aug-2024	n	min	max	median	mean	std dev
Volatile Organic Compounds [Drycleaning]																	
Carbon tetrachloride	0.50	µg/L	2.0	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Chloroethane	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethane, 1,1-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethane, 1,2-	0.50	µg/L	5.0	-	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethylene, 1,1-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethylene, cis-1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethylene, trans-1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloromethane	1.0	µg/L	50	-	98.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6	<1.0	<1.0	<1.0	<1.0	-
Dichloropropylene, trans-1,3-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Tetrachloroethylene	0.50	µg/L	10	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Trichloroethane, 1,1,1-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Trichloroethylene	0.50	µg/L	5.0	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Vinyl chloride	0.40	µg/L	-	-	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	6	<0.40	<0.40	<0.40	<0.40	-
Volatile Organic Compounds [Fuels]																	
Benzene	0.50	µg/L	5.0	-	370	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Ethylbenzene	0.50	µg/L	140	-	90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Methyl-tert-butyl ether [MTBE]	0.50	µg/L	15	-	10000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Styrene	0.50	µg/L	-	-	72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Toluene	0.40	µg/L	60	-	2.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	6	<0.40	<0.40	<0.40	<0.40	-
Xylene, m+p-	0.40	µg/L	-	-	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	6	<0.40	<0.40	<0.40	<0.40	-
Xylene, o-	0.30	µg/L	-	-	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	6	<0.30	<0.30	<0.30	<0.30	-
Xylenes, total	0.50	µg/L	90	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Volatile Organic Compounds [THMs]																	
Bromodichloromethane	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Bromoform	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Chloroform	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dibromochloromethane	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Volatile Organic Compounds Surrogates																	
Bromofluorobenzene, 4-	1.0	%	-	-	-	82.3	80.9	80.9	81.4	81.6	80.7	6	80.7	82.3	81.2	81.3	0.6
Difluorobenzene, 1,4-	1.0	%	-	-	-	97.2	96.3	97.8	96.5	97.6	98.2	6	96.3	98.2	97.4	97.3	0.7
Polycyclic Aromatic Hydrocarbons																	
Acenaphthene	0.010	µg/L	-	-	5.8	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Acenaphthylene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Acridine	0.010	µg/L	-	-	4.4	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Anthracene	0.010	µg/L	-	-	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Benz(a)anthracene	0.010	µg/L	-	-	0.018	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Benzo(a)pyrene	0.0050	µg/L	0.040	-	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6	<0.0050	<0.0050	<0.0050	<0.0050	-
Benzo(b+j)fluoranthene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Benzo(b+j+k)fluoranthene	0.015	µg/L	-	-	-	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	6	<0.015	<0.015	<0.015	<0.015	-
Benzo(g,h,i)perylene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Benzo(k)fluoranthene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Chrysene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Dibenz(a,h)anthracene	0.0050	µg/L	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6	<0.0050	<0.0050	<0.0050	<0.0050	-
Fluoranthene	0.010	µg/L	-	-	0.040	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Fluorene	0.010	µg/L	-	-	3.0	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Indeno(1,2,3-c,d)pyrene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Methylnaphthalene, 1-	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Methylnaphthalene, 2-	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Naphthalene	0.050	µg/L	-	-	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	<0.050	<0.050	<0.050	<0.050	-
Phenanthrene	0.020	µg/L	-	-	0.40	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	6	<0.020	<0.020	<0.020	<0.020	-
Pyrene	0.010	µg/L	-	-	0.025	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Quinoline	0.050	µg/L	-	-	3.40	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	<0.050	<0.050	<0.050	<0.050	-
Polycyclic Aromatic Hydrocarbons Surrogates																	
Chrysene-d12	0.1	%	-	-	-	90.2	95.0	91.8	93.0	91.0	90.6	6	90.2	95.0	91.4	91.9	1.8
Naphthalene-d8	0.1	%	-	-	-	97.1	98.5	101.0	101.0	105.0	98.3	6	97.1	105.0	99.8	100.2	2.8
Phenanthrene-d10	0.1	%	-	-	-	112.0	108.0	106.0	107.0	112.0	105.0	6	105.0	112.0	107.5	108.3	3.0

Notes:
LDL = lowest detection limit; WQG-FAL = water quality guidelines for the protection of aquatic life; n = sample size; min = minimum; max = maximum; std dev = standard deviation
Blue highlighted text indicates an exceedance of the Health Canada Guideline for Canadian Drinking Water Quality.
Dark grey highlighted text indicates an exceedance of the short term CCME WQG-FAL.
Light grey highlighted text indicates an exceedance of the long term CCME WQG-FAL.

[a] Health Canada. 2024. Guidelines for Canadian Drinking Water Quality—Summary Tables. Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario.

[b] Canadian Council of Ministers of the Environment (CCME). 2024. Water and Sediment Quality Guidelines for the Protection of Aquatic Life. Available at: https://ccme.ca/en/summary-table. Accessed September 2024.

[c] Summary statistics were calculated using <LRL results at the LRL.

NUNAMI
STANTEC LIMITED

Photographic Log

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-1**	**Site Location:**	

Photograph ID: 1

Photo Location:
Habitat Unit 1

Survey Date:
8/6/2024

Comments:
Shrub riparian composition.

Photograph ID: 2

Photo Location:
Habitat Unit 2

Survey Date:
8/6/2024

Comments:
Rocky riparian composition.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-1**	**Site Location:**	

Photograph ID: 3

Photo Location:
Habitat Unit 2

Survey Date:
8/6/2024

Comments:
Littoral substrate.

Photograph ID: 4

Photo Location:
Habitat Unit 3

Survey Date:
8/6/2024

Comments:
Shrub riparian composition.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-1**	**Site Location:**	

Photograph ID: 5

Photo Location:
Habitat Unit 4

Survey Date:
8/6/2024

Comments:
Rocky riparian composition.

Photograph ID: 6

Photo Location:
Habitat Unit 5

Survey Date:
8/7/2024

Comments:
Rocky riparian composition.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-1**	**Site Location:**	

Photograph ID: 7

Photo Location:
Habitat Unit 5

Survey Date:
8/7/2024

Comments:
Sandy beach.

Photograph ID: 8

Photo Location:
Habitat Unit 6

Survey Date:
8/7/2024

Comments:
Wetland grasses.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-1**	**Site Location:**	

Photograph ID: 9

Photo Location:
Habitat Unit 7

Survey Date:
8/7/2024

Comments:
Rocky (bedrock) riparian composition.

Photograph ID: 10

Photo Location:
Habitat Unit 8

Survey Date:
8/7/2024

Comments:
Wetland grasses.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-1**	**Site Location:**	

Photograph ID: 11

Photo Location:
Habitat Unit 9

Survey Date:
8/7/2024

Comments:
Rocky riparian composition.

Photograph ID: 12

Photo Location:
Habitat Unit 10

Survey Date:
8/7/2024

Comments:
Rocky (bedrock) riparian composition.

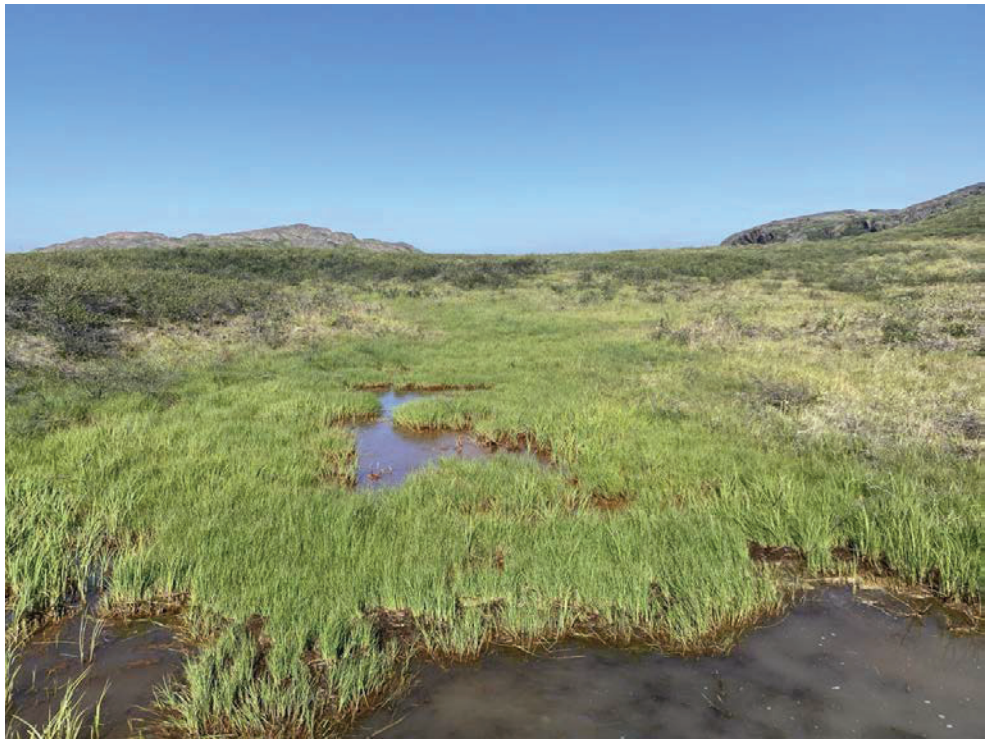
Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-1**	**Site Location:**	

Photograph ID: 13

Photo Location:
Inlet 1

Survey Date:
8/7/2024

Comments:
Inlet to possible seasonal drainage.



Photograph ID: 14

Photo Location:
Inlet 2

Survey Date:
8/6/2024

Comments:
Inlet to possible seasonal drainage.

NUNAMI
STANTEC LIMITED

Photographic Log

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-1**	**Site Location:**	

Photograph ID: 15

Photo Location:
Inlet 3

Survey Date:
8/7/2024

Comments:
Inlet to possible seasonal drainage.

C.3 PWI-2 Fish and Fish Habitat Results

Table C.3-1 Fish Habitat Assessment for PWI-2, July 2025

Habitat Unit	Riparian Composition (%)				Riparian Bank Stability	Substrate Composition (%)									Overhead Cover (%)		Instream Cover (%)					Instream Vegetation (%)				Comments
	Rocky[1]	Grass	Shrub	Wetland		Organics	Fines	Sand	Small Gravel	Large Gravel	Cobble	Small Boulder	Larger Boulder	Bedrock	Total	Riparian	Total	SWD	Cobble	Boulder	Vegetation	Emergent	Submerged	Filamentous Algae	Macrophytic Algae	
1	100	0	0	0	Stable	30	60	0	0	0	0	5	5	0	5	0	10	0	0	10	10	0	100	0	0	Bedrock banks, fines littoral substrates.
2	20	60	20	0	Stable	0	20	0	0	0	20	25	25	1	5	5	75	0	20	60	5	75	25	0	0	Some bedrock banks, mostly shrubs n grasses in riparian, lots of boulders.
3	25	25	25	25	Stable	20	20	0	0	0	20	20	15	5	5	5	50	0	10	40	10	75	25	0	0	Large stretches of Bo/Co substrates with alternating sections of organics and fines, some sections of bedrock riparian.
4	100	0	0	0	Stable	0	55	0	0	0	5	5	5	25	0	0	5	0	0	5	0	0	0	0	0	Bedrock riparian, steep drop off to fines substrates.
5	90	5	5	0	Stable	0	75	0	0	0	0	5	10	10	0	0	5	0	0	5	0	0	0	0	0	Bedrock and boulders at bank and near shore that transitions to fines.
6	0	25	75	0	Moderately Stable	75	15	5	0	0	3	1	1	0	5	5	50	25	0	0	40	25	75	0	0	Organics with small woody debris and vegetation.
7	70	25	5	0	Stable	0	30	5	2	3	20	20	20	0	0	0	30	0	10	20	0	0	0	0	0	Near shore was boulder and cobbles, transitioned to more fines with scattered boulder and cobble.
8	60	20	20	0	Stable	0	20		2	3	20	15	20	20	5	5	50	0	10	40	5	25	75	0	0	Bedrock banks with some shrubs and grass, predominately coarse substrates with some fines.
9	25	50	25	0	Stable	0	15	0	2	3	25	25	30	5	3	3	50	5	40	50	5	75	25	0	0	Lots of boulders, some cobble, gravel and fines. Boulder n cobble banks with some grasses n shrubs.
10	20	60	20	0	Stable	0	5	5	2	3	40	30	10	0	5	5	30	0	40	10	5	100	0	0	0	Cobble and small boulder dominate, grasses and boulders in riparian, some bedrock.
11	0	50	0	50	Moderately Stable	45	45	0	0	0	5	5	0	0	5	5	20	0	0	0	20	75	25	0	0	Organics and fines substrates, emergent veg, some banks slumping.
12	25	50	25	0	Stable	5	50	0	2	3	15	15	5	0	0	0	25	0	20	20	5	75	25	0	0	-
13	0	25	75	0	Stable	100	0	0	0	0	0	0	0	0	5	5	10	10	0	0	10	25	75	0	0	-

Notes:

[1] Rocky shorelines were comprised of coarse substrates (i.e., cobble, boulder, bedrock).

Table C.3-2 Vertical Water Column Profiles for PWI-2 Quality Sampling Locations, July 2025

PWI-2-1						
Depth	**Temperature (ºC)**	**DO (mg/L)**	**DO (%)**	**SPC (µS/cm)**	**Turbidity (NTU)**	**pH**
0.5	9.80	11.19	99.7	60.3	1.22	6.99
1.0	9.83	11.19	99.7	60.2	1.30	6.94
2.0	9.80	11.14	99.2	60.3	1.37	6.86
3.0	9.73	11.17	99.3	60.3	1.20	6.84
4.0	9.71	11.16	99.2	60.2	1.28	6.83
5.0	9.71	11.17	99.3	60.2	1.19	6.81
6.0	9.70	11.14	99.0	60.2	1.16	6.80
7.0	9.58	11.10	98.3	60.2	1.24	6.80
8.0	9.45	11.07	97.8	60.2	1.28	6.83
9.0	9.41	11.05	97.5	60.2	1.19	6.87
10.0	9.41	11.04	97.4	60.2	1.21	6.91
PWI-2-2						
Depth	**Temperature (ºC)**	**DO (mg/L)**	**DO (%)**	**SPC (µS/cm)**	**Turbidity (NTU)**	**pH**
0.5	9.74	11.21	99.7	59.7	1.23	6.77
1.0	9.73	11.24	100.0	59.8	1.32	6.76
2.0	9.71	11.25	100.0	59.8	1.18	6.83
3.0	9.73	11.23	99.9	59.8	1.16	6.85
4.0	9.69	11.22	99.7	59.8	1.26	6.89
5.0	9.61	11.21	99.4	59.8	1.17	6.90
6.0	9.57	11.20	99.2	59.8	1.19	6.93
7.0	9.39	11.21	98.8	59.8	1.18	7.14
8.0	9.53	11.21	99.2	59.8	1.13	6.97
9.0	9.49	11.19	98.9	59.7	1.05	7.09
PWI-2-3						
Depth	**Temperature (ºC)**	**DO (mg/L)**	**DO (%)**	**SPC (µS/cm)**	**Turbidity (NTU)**	**pH**
1.0	9.94	11.30	100.9	59.8	1.21	6.89
2.0	9.87	11.30	100.8	59.8	1.49	6.91
3.0	9.90	11.26	100.5	59.8	1.26	6.93
4.0	9.88	11.26	100.5	59.7	1.45	6.95
5.0	9.88	11.25	100.4	59.8	1.12	6.97
6.0	9.79	11.23	100.0	59.7	1.15	6.99
7.0	9.73	11.23	99.9	59.7	1.33	7.03
8.0	9.72	11.21	99.7	59.7	1.12	7.06
9.0	9.65	11.20	99.4	59.7	1.05	7.17
10.0	9.60	11.18	99.1	59.5	1.03	7.22
11.0	9.48	11.18	98.8	59.6	1.05	7.31

Notes:
DO = dissolved oxygen; SPC = specific conductivity.

Table C.3-3 Water Quality Data for PWI-1 Sampling Locations, July 2025

Parameter	LDL	Units	Health Canada[a]	CCME WQG-FAL[b]		PWI-2-1-S	PWI-2-1-B	PWI-2-2-S	PWI-2-2-B	PWI-2-3-S	PWI-2-3-B	Summary Statistics[c]					
				Short-term	Long-term	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	n	min	max	median	mean	std dev
Physical Tests																	
Alkalinity, total (as CaCO3)	2.0	mg/L	-	-	-	8.9	9.2	9.0	8.7	9.0	9.1	6	8.7	9.2	9.0	9.0	0.2
Hardness (as CaCO3), dissolved	0.60	mg/L	-	-	-	13.5	14.1	13.5	14.6	13.4	13.3	6	13.3	14.6	13.5	13.7	0.5
Hardness (as CaCO3), from total	0.60	mg/L	-	-	-	13.0	13.6	13.3	13.5	13.1	13.2	6	13.0	13.6	13.3	13.3	0.2
Total suspended solids	3.0	mg/L	-	-	-	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	6	<3.0	<3.0	<3.0	<3.0	-
Anions and Nutrients																	
Ammonia, total (as N)	0.0050	mg/L	-	-	3.26	<0.0050	0.0073	<0.0050	<0.0050	<0.0050	<0.0050	6	<0.0050	0.0073	0.0050	0.0054	0.0009
Bromide	0.050	mg/L	-	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	<0.050	<0.050	<0.050	<0.050	-
Chloride	0.50	mg/L	250	640	120	9.97	11.30	9.90	12.30	9.89	10.00	6	9.89	12.30	9.99	10.56	1.01
Fluoride	0.020	mg/L	1.50	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	6	<0.020	<0.020	<0.020	<0.020	-
Total kjeldahl nitrogen	0.050	mg/L	-	-	-	0.206	0.187	0.215	0.189	0.211	0.295	6	0.187	0.295	0.209	0.217	0.040
Nitrate (as N)	0.0050	mg/L	45	550	13	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6	<0.0050	<0.0050	<0.0050	<0.0050	-
Nitrite (as N)	0.0010	mg/L	3.0	-	0.197	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	6	<0.0010	<0.0010	<0.0010	<0.0010	-
Phosphorus, total	0.0020	mg/L	-	-	-	0.0054	0.0062	0.0050	0.0052	0.0053	0.0069	6	0.0050	0.0069	0.0054	0.0057	0.0007
Sulfate (as SO4)	0.30	mg/L	-	-	-	3.44	3.57	3.38	3.66	3.39	3.40	6	3.38	3.66	3.42	3.47	0.12
Organic / Inorganic Carbon																	
Dissolved organic carbon	0.50	mg/L	-	-	-	3.54	3.78	3.64	3.72	3.66	3.74	6	3.54	3.78	3.69	3.68	0.09
Total Metals																	
Aluminum	0.0030	mg/L	2.9	-	0.10	0.0606	0.0599	0.0551	0.0548	0.0551	0.0642	6	0.0548	0.0642	0.0575	0.0583	0.0039
Antimony	0.00010	mg/L	0.006	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0	<0.00010	<0.00010	<0.00010	<0.00010	-
Arsenic	0.00010	mg/L	0.010	-	0.005	0.00019	0.0002	0.00018	0.00017	0.00017	0.00018	6	0.00017	0.00020	0.00018	0.00018	0.00001
Barium	0.00010	mg/L	2.0	-	-	0.00214	0.00217	0.00203	0.00206	0.00204	0.00226	6	0.00203	0.00226	0.00210	0.00212	0.00009
Beryllium	0.000100	mg/L	-	-	-	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	6	<0.000100	<0.000100	<0.000100	<0.000100	-
Bismuth	0.000050	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Boron	0.010	mg/L	5.0	29	1.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Cadmium	0.0000050	mg/L	0.0070	0.00026	0.000040	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	6	<0.0000050	<0.0000050	<0.0000050	<0.0000050	-
Calcium	0.050	mg/L	-	-	-	2.17	2.25	2.25	2.29	2.23	2.24	6	2.17	2.29	2.25	2.24	0.04
Cesium	0.000010	mg/L	-	-	-	<0.000010	0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	0.000010	0.000010	0.000010	0.000000
Chromium	0.00050	mg/L	0.050	-	0.001 (CrVI); 0.0089 (CrIII)	<0.00050	<0.00050	0.00067	<0.00050	<0.00050	<0.00050	6	<0.00050	0.00067	0.00050	0.00053	0.00007
Cobalt	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Copper	0.00050	mg/L	2.0	-	0.0020	0.00252	0.0026	0.00263	0.00268	0.00263	0.00268	6	0.0025	0.0027	0.0026	0.0026	0.0001
Iron	0.010	mg/L	0.30	-	0.30	0.081	0.087	0.076	0.070	0.070	0.076	6	0.070	0.087	0.076	0.077	0.007
Lead	0.000050	mg/L	0.005	-	0.0010	0.000052	0.000091	0.00005	0.000073	0.000052	0.000062	6	<0.000050	0.000091	0.000057	0.000063	0.000016
Lithium	0.0010	mg/L	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	6	<0.0010	<0.0010	<0.0010	<0.0010	-
Magnesium	0.0050	mg/L	-	-	-	1.84	1.93	1.86	1.89	1.82	1.85	6	1.82	1.93	1.86	1.87	0.04
Manganese	0.00010	mg/L	0.12	-	-	0.00591	0.00594	0.00554	0.00553	0.00523	0.00538	6	0.00523	0.00594	0.00554	0.00559	0.00028
Mercury	0.0000050	mg/L	0.0010	-	0.000026	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	6	<0.0000050	<0.0000050	<0.0000050	<0.0000050	-
Molybdenum	0.000050	mg/L	-	-	-	0.0001	0.000104	0.000128	0.000088	0.000096	0.000095	6	0.000088	0.000128	0.000098	0.000102	0.000014
Nickel	0.00050	mg/L	-	-	0.025	0.00057	0.00054	0.00053	0.00053	0.00051	0.00053	6	0.00051	0.00057	0.00053	0.00054	0.00002
Phosphorus	0.050	mg/L	-	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	<0.050	<0.050	<0.050	<0.050	-
Potassium	0.050	mg/L	-	-	-	0.627	0.649	0.662	0.648	0.639	0.639	6	0.63	0.66	0.64	0.64	0.01
Rubidium	0.00020	mg/L	-	-	-	0.00089	0.00089	0.00087	0.00096	0.00086	0.00082	6	0.00082	0.00096	0.00088	0.00088	0.00005
Selenium	0.000050	mg/L	0.050	-	0.0010	0.000056	<0.000050	0.000052	0.000058	<0.000050	0.000050	6	<0.000050	0.00006	0.00005	0.00005	0.00000
Silicon	0.10	mg/L	-	-	-	0.52	0.54	0.52	0.56	0.57	0.59	6	0.52	0.59	0.55	0.55	0.03
Silver	0.000010	mg/L	-	-	0.00025	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Sodium	0.050	mg/L	200	-	-	6.24	6.70	6.20	6.58	6.28	6.29	6	6.20	6.70	6.29	6.38	0.21
Strontium	0.00020	mg/L	7.0	-	-	0.00852	0.009	0.00853	0.00892	0.00903	0.00905	6	0.0085	0.0091	0.0090	0.0088	0.0002
Sulfur	0.50	mg/L	-	-	-	1.16	1.13	1.14	1.13	1.24	0.99	6	0.99	1.24	1.14	1.13	0.08
Tellurium	0.00020	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	6	<0.00020	<0.00020	<0.00020	<0.00020	-
Thallium	0.000010	mg/L	-	-	0.0008	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Thorium	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Tin	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Titanium	0.00030	mg/L	-	-	-	0.0017	0.00174	0.00165	0.00149	0.00136	0.00155	6	0.00136	0.00174	0.00160	0.00158	0.00014
Tungsten	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Uranium	0.000010	mg/L	0.020	0.033	0.0015	0.000123	0.000123	0.000134	0.000136	0.000136	0.000133	6	0.000123	0.000136	0.000134	0.000131	0.000006
Vanadium	0.00050	mg/L	-	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	6	<0.00050	<0.00050	<0.00050	<0.00050	-
Zinc	0.0030	mg/L	5.0	0.019	0.0090	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	6	<0.0030	<0.0030	<0.0030	<0.0030	-
Zirconium	0.00020	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	6	<0.00020	<0.00020	<0.00020	<0.00020	-

Table C.3-3 Water Quality Data for PWI-1 Sampling Locations, July 2025

Parameter	LDL	Units	Health Canada[a]	CCME WQG-FAL[b]		PWI-2-1-S	PWI-2-1-B	PWI-2-2-S	PWI-2-2-B	PWI-2-3-S	PWI-2-3-B	Summary Statistics[c]					
				Short-term	Long-term	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	n	min	max	median	mean	std dev
Dissolved Metals																	
Aluminum	0.0010	mg/L	-	-	-	0.0166	0.0173	0.018	0.0173	0.0163	0.0176	6	0.0163	0.0180	0.0173	0.0172	0.0006
Antimony	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Arsenic	0.00010	mg/L	-	-	-	0.00016	0.00017	0.00019	0.00018	0.00015	0.00017	6	0.00015	0.00019	0.00017	0.00017	0.00001
Barium	0.00010	mg/L	-	-	-	0.00189	0.0019	0.00182	0.00188	0.00177	0.00179	6	0.00177	0.00190	0.00185	0.00184	0.00006
Beryllium	0.000100	mg/L	-	-	-	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	6	<0.000100	<0.000100	<0.000100	<0.000100	-
Bismuth	0.000050	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Boron	0.010	mg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Cadmium	0.0000050	mg/L	-	-	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	6	<0.0000050	<0.0000050	<0.0000050	<0.0000050	-
Calcium	0.050	mg/L	-	-	-	2.35	2.40	2.38	2.45	2.32	2.32	6	2.32	2.45	2.37	2.37	0.05
Cesium	0.000010	mg/L	-	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Chromium	0.00050	mg/L	-	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	6	<0.00050	<0.00050	<0.00050	<0.00050	-
Cobalt	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Copper	0.00020	mg/L	-	-	-	0.00235	0.00244	0.00241	0.00244	0.00244	0.00241	6	0.00235	0.00244	0.00243	0.00242	0.00004
Iron	0.010	mg/L	-	-	-	0.016	0.017	0.016	0.016	0.015	0.015	6	0.015	0.017	0.016	0.016	0.001
Lead	0.000050	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Lithium	0.0010	mg/L	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	6	<0.0010	<0.0010	<0.0010	<0.0010	-
Magnesium	0.0050	mg/L	-	-	-	1.85	1.96	1.83	2.07	1.84	1.83	6	1.83	2.07	1.85	1.90	0.10
Manganese	0.00010	mg/L	-	1.13	-	0.00108	0.00102	0.00115	0.00112	0.00108	0.0009	6	0.00090	0.00115	0.00108	0.00106	0.00009
Mercury	0.0000050	mg/L	-	-	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	6	<0.0000050	<0.0000050	<0.0000050	<0.0000050	-
Molybdenum	0.000050	mg/L	-	-	-	0.00011	0.000102	0.000088	0.000095	0.00009	0.000091	6	0.00	0.00	0.00	0.00	0.0000
Nickel	0.00050	mg/L	-	-	-	0.00066	0.00068	0.00064	0.0007	0.00073	0.00069	6	<0.00064	0.00073	0.00069	0.00068	0.00003
Phosphorus	0.050	mg/L	-	-	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	<0.050	<0.050	<0.050	<0.050	-
Potassium	0.050	mg/L	-	-	-	0.631	0.656	0.636	0.714	0.649	0.64	6	0.631	0.71	0.64	0.65	0.03
Rubidium	0.00020	mg/L	-	-	-	0.00077	0.00082	0.00082	0.0008	0.00076	0.00082	6	0.00076	0.00082	0.00081	0.00080	0.00003
Selenium	0.000050	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	6	<0.000050	<0.000050	<0.000050	<0.000050	-
Silicon	0.050	mg/L	-	-	-	0.415	0.419	0.433	0.428	0.403	0.406	6	0.403	0.433	0.417	0.417	0.012
Silver	0.000010	mg/L	-	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Sodium	0.050	mg/L	-	-	-	6.27	6.98	6.21	7.93	6.06	6.11	6	6.06	7.93	6.24	6.59	0.74
Strontium	0.00020	mg/L	-	-	-	0.00891	0.00912	0.0085	0.00957	0.00848	0.00867	6	0.0085	0.0096	0.0088	0.0089	0.0004
Sulfur	0.50	mg/L	-	-	-	1.08	1.09	1.23	1.08	0.97	1.13	6	0.97	1.23	1.09	1.10	0.08
Tellurium	0.00020	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	6	<0.00020	<0.00020	<0.00020	<0.00020	-
Thallium	0.000010	mg/L	-	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	6	<0.000010	<0.000010	<0.000010	<0.000010	-
Thorium	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Tin	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Titanium	0.00030	mg/L	-	-	-	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	6	<0.00030	<0.00030	<0.00030	<0.00030	-
Tungsten	0.00010	mg/L	-	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	6	<0.00010	<0.00010	<0.00010	<0.00010	-
Uranium	0.000010	mg/L	-	-	-	0.000106	0.000106	0.000115	0.000116	0.000114	0.000118	6	0.000106	0.000118	0.000115	0.000113	0.000005
Vanadium	0.00050	mg/L	-	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	6	<0.00050	<0.00050	<0.00050	<0.00050	-
Zinc	0.0010	mg/L	-	0.044	0.0090	<0.0010	0.0021	<0.0010	0.0016	<0.0010	<0.0010	2	<0.0016	0.0021	0.0019	0.0019	0.0004
Zirconium	0.00020	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	6	<0.00020	<0.00020	<0.00020	<0.00020	-
Volatile Organic Compounds																	
Chlorobenzene	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Chloromethane	5.0	µg/L	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6	<5.0	<5.0	<5.0	<5.0	-
Dichlorobenzene, 1,2-	0.50	µg/L	-	-	0.70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichlorobenzene, 1,3-	0.50	µg/L	-	-	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichlorobenzene, 1,4-	0.50	µg/L	5.0	-	26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloropropane, 1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloropropylene, cis+trans-1,3-	0.75	µg/L	-	-	-	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	6	<0.75	<0.75	<0.75	<0.75	-
Dichloropropylene, cis-1,3-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Tetrachloroethane, 1,1,1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Tetrachloroethane, 1,1,2,2-	0.20	µg/L	-	-	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	6	<0.20	<0.20	<0.20	<0.20	-
Trichloroethane, 1,1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Trichlorofluoromethane	0.50	µg/L	-	-	13.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-

Table C.3-3 Water Quality Data for PWI-1 Sampling Locations, July 2025

Parameter	LDL	Units	Health Canada[a]	CCME WQG-FAL[b]		PWI-2-1-S	PWI-2-1-B	PWI-2-2-S	PWI-2-2-B	PWI-2-3-S	PWI-2-3-B	Summary Statistics[c]					
				Short-term	Long-term	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	n	min	max	median	mean	std dev
Volatile Organic Compounds [Drycleaning]																	
Carbon tetrachloride	0.50	µg/L	2.0	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Chloroethane	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethane, 1,1-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethane, 1,2-	0.50	µg/L	5.0	-	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethylene, 1,1-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethylene, cis-1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloroethylene, trans-1,2-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dichloromethane	1.0	µg/L	50	-	98.1	<1.8	<1.2	<1.0	<1.0	<2.9	<1.0	6	<1.0	<1.0	<1.0	<1.0	-
Dichloropropylene, trans-1,3-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Tetrachloroethylene	0.50	µg/L	10	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Trichloroethane, 1,1,1-	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Trichloroethylene	0.50	µg/L	5.0	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Vinyl chloride	0.40	µg/L	-	-	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	6	<0.40	<0.40	<0.40	<0.40	-
Volatile Organic Compounds [Fuels]																	
Benzene	0.50	µg/L	5.0	-	370	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Ethylbenzene	0.50	µg/L	140	-	90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Methyl-tert-butyl ether [MTBE]	0.50	µg/L	15	-	10000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Styrene	0.50	µg/L	-	-	72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Toluene	0.40	µg/L	60	-	2.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	6	<0.40	<0.40	<0.40	<0.40	-
Xylene, m+p-	0.40	µg/L	-	-	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	6	<0.40	<0.40	<0.40	<0.40	-
Xylene, o-	0.30	µg/L	-	-	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	6	<0.30	<0.30	<0.30	<0.30	-
Xylenes, total	0.50	µg/L	90	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Volatile Organic Compounds [THMs]																	
Bromodichloromethane	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Bromoform	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Chloroform	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Dibromochloromethane	0.50	µg/L	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6	<0.50	<0.50	<0.50	<0.50	-
Volatile Organic Compounds Surrogates																	
Bromofluorobenzene, 4-	1.0	%	-	-	-	87.8	86.8	84.5	84.3	86.4	85.1	6	84.3	87.8	85.8	85.8	1.4
Difluorobenzene, 1,4-	1.0	%	-	-	-	95.6	96.1	96.5	96.2	97.5	96.7	6	95.6	97.5	96.4	96.4	0.6
Polycyclic Aromatic Hydrocarbons																	
Acenaphthene	0.010	µg/L	-	-	5.8	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Acenaphthylene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Acridine	0.010	µg/L	-	-	4.4	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Anthracene	0.010	µg/L	-	-	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Benz(a)anthracene	0.010	µg/L	-	-	0.018	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Benzo(a)pyrene	0.0050	µg/L	0.040	-	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6	<0.0050	<0.0050	<0.0050	<0.0050	-
Benzo(b+j)fluoranthene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Benzo(b+j+k)fluoranthene	0.015	µg/L	-	-	-	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	6	<0.015	<0.015	<0.015	<0.015	-
Benzo(g,h,i)perylene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Benzo(k)fluoranthene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Chrysene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Dibenz(a,h)anthracene	0.0050	µg/L	-	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6	<0.0050	<0.0050	<0.0050	<0.0050	-
Fluoranthene	0.010	µg/L	-	-	0.040	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Fluorene	0.010	µg/L	-	-	3.0	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Indeno(1,2,3-c,d)pyrene	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Methylnaphthalene, 1-	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Methylnaphthalene, 2-	0.010	µg/L	-	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Naphthalene	0.050	µg/L	-	-	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	<0.050	<0.050	<0.050	<0.050	-
Phenanthrene	0.020	µg/L	-	-	0.40	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	6	<0.020	<0.020	<0.020	<0.020	-
Pyrene	0.010	µg/L	-	-	0.025	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	6	<0.010	<0.010	<0.010	<0.010	-
Quinoline	0.050	µg/L	-	-	3.40	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	<0.050	<0.050	<0.050	<0.050	-
Polycyclic Aromatic Hydrocarbons Surrogates																	
Chrysene-d12	0.1	%	-	-	-	109	114	114	123	109	108	6	108.0	123.0	111.5	112.8	5.6
Naphthalene-d8	0.1	%	-	-	-	91.3	97.8	96.6	98.0	93.9	91.8	6	91.3	98.0	95.3	94.9	3.0
Phenanthrene-d10	0.1	%	-	-	-	87.5	96.6	97.8	102.0	95.7	94.5	6	87.5	102.0	96.2	95.7	4.8

Notes:
LDL = lowest detection limit; WQG-FAL = water quality guidelines for the protection of aquatic life; n = sample size; min = minimum; max = maximum; std dev = standard deviation
Blue highlighted text indicates an exceedance of the Health Canada Guideline for Canadian Drinking Water Quality.
Dark grey highlighted text indicates an exceedance of the short term CCME WQG-FAL.
Light grey highlighted text indicates an exceedance of the long term CCME WQG-FAL.

[a] Health Canada. 2024. Guidelines for Canadian Drinking Water Quality—Summary Tables. Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario.

[b] Canadian Council of Ministers of the Environment (CCME). 2025. Water and Sediment Quality Guidelines for the Protection of Aquatic Life. Available at: https://ccme.ca/en/summary-table. Accessed September 2025.

[c] Summary statistics were calculated using <LRL results at the LRL.

NUNAMI
STANTEC LIMITED

Photographic Log

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 1

Photo Location:
Habitat Unit 1

Survey Date:
7/29/2025

Comments:
Bare bedrock riparian with sparse grasses.

Photograph ID: 2

Photo Location:
Habitat Unit 1

Survey Date:
7/29/2025

Comments:
Fines and small boulder substrate composition.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 3

Photo Location:
Habitat Unit 2

Survey Date:
7/29/2025

Comments:
Riparian composed of bare bedrock, large boulders, grasses, and some shrubs. Some emergent vegetation.

Photograph ID: 4

Photo Location:
Habitat Unit 2

Survey Date:
7/29/2025

Comments:
Cobble-boulder substrate.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 5

Photo Location:
Habitat Unit 3

Survey Date:
7/29/2025

Comments:
Grass and shrub riparian composition, with some bedrock in some sections.

Photograph ID: 6

Photo Location:
Habitat Unit 3

Survey Date:
7/29/2025

Comments:
Large areas of cobble-small boulder substrate with alternating sections of fines and organics.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 7

Photo Location:
Habitat Unit 4

Survey Date:
7/29/2025

Comments:
Bedrock riparian, steep drop in littoral zone with fine substrate.

Photograph ID: 8

Photo Location:
Habitat Unit 5

Survey Date:
7/29/2025

Comments:
Bedrock and boulders at bank and near shore, transitions to fine substrate.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 9

Photo Location:
Habitat Unit 6

Survey Date:
7/29/2025

Comments:
Grass and shrub riparian composition.

Photograph ID: 10

Photo Location:
Habitat Unit 6

Survey Date:
7/29/2025

Comments:
Substrate composition of organics, fines, small woody debris, and submergent vegetation.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 11

Photo Location:
Habitat Unit 7

Survey Date:
7/29/2025

Comments:
Nearshore boulder and cobbles transitions to fines scattered with boulders and cobbles

Photograph ID: 12

Photo Location:
Habitat Unit 7

Survey Date:
7/29/2025

Comments:
Small section of weed bed with emergent and submergent vegetation

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 13

Photo Location:
Habitat Unit 8

Survey Date:
7/29/2025

Comments:
Bedrock banks with some shrubs and grass.

Photograph ID: 14

Photo Location:
Habitat Unit 8

Survey Date:
7/29/2025

Comments:
Predominately coarse substrates with some fines.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 15

Photo Location:
Habitat Unit 9

Survey Date:
7/29/2025

Comments:
Boulder cobble banks with grasses and some shrubs. Lots of boulders in substrate.

Photograph ID: 16

Photo Location:
Habitat Unit 9

Survey Date:
7/29/2025

Comments:
Some sections cobble dominant.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 17

Photo Location:
Habitat Unit 10

Survey Date:
7/29/2025

Comments:
Grasses and boulder dominant in riparian, with some bedrock.

Photograph ID: 18

Photo Location:
Habitat Unit 10

Survey Date:
7/29/2025

Comments:
Cobble and small boulder dominant substrate.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 19

Photo Location:
Habitat Unit 11

Survey Date:
7/29/2025

Comments:
Riparian dominant with grass and wetland vegetation. Some instability along banks.

Photograph ID: 20

Photo Location:
Habitat Unit 11

Survey Date:
7/29/2025

Comments:
Organic and fine substrate with some sections of emergent and submerged vegetation.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 21

Photo Location:
Habitat Unit 12

Survey Date:
7/29/2025

Comments:
Some sections of bedrock and bare riparian, with grass being dominant vegetation.

Photograph ID: 22

Photo Location:
Habitat Unit 12

Survey Date:
7/29/2025

Comments:
Substrate dominant with fines, some cobbles and small boulders.

Client:	**West Kitikmeot Resources Corp**	**Project:**	**Grays Bay Road and Port Project (GBRP)**
Site Name:	**PWI-2**	**Site Location:**	**67.730427, -110.756183**

Photograph ID: 23

Photo Location:
Habitat Unit 13

Survey Date:
7/29/2025

Comments:
Grass and shrub riparian.

Photograph ID: 24

Photo Location:
Habitat Unit 13

Survey Date:
7/29/2025

Comments:
Some overhanging shrubs providing cover. Substrate dominant with organics, with submergent vegetation.

C.4 Road LAA Fish and Fish Habitat Results

Table C.4-1 Fish Habitat Assessment Profiles at Stream Reaches within Road PDA, 2025

Watercourse ID	Watershed	Stream Class	Profile Length (m)	Dominant Habitat Type	Morphology (%/100)				Riparian (%/100)				Substrates (%/100)								Total Cover (%/ area)	Overhead Cover (%/ area)			Instream Cover (%/area)			Instream Vegetation (%/area)	Aquatic Vegetation (%/100)			Comment
					Riffle	Pool	Run	Flat	Bare	Grass	Shrub	Wetland	Organics	Fines	Sand	Small Gravel	Large Gravel	Cobble	Small Boulder	Large Boulder	Bedrock		Undercut Bank	Grasses	Shrubs	Small Woody Debris	Boulders	Water Visibility		Emergent	Submergent	Algae	
D7E	Arctic Ocean	Small Permanent	165	Flat	0	20	5	75	5	45	25	25	45	45	0	3	2	2	1	2	0	60	0	60	5	0	0	50	40	100	0	0	Flat habitat through grasses and shrubs, areas of undefined channel
d11a	Kennarctic River	Ephemeral	252	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Wetland, no defined channel
D11b	Kennarctic River	Ephemeral	175	Wetland	0	100	0	0	0	30	70	0	90	10	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	Wetland or ephemeral drainage feature
d12a	Kennarctic River	Ephemeral	118	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Wetland feature with stagnant surface water, no defined channel. The wetland feature connects with D12B north of the centreline.
d12b	Kennarctic River	Ephemeral	151	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ephemeral wetland with no defined channel.
D14	Kennarctic River	Large Permanent	356	Run 2 (0.5 – 1.0 m)	15	35	50	5	10	40	50	0	20	55	0	3	2	5	5	10	0	30	0	15	25	0	10	0	5	50	50	0	Rearing is good, spawning is nil, overwintering is good, migration is fair - short section of high gradient stream near CL. Stream channel braids near centreline before rejoining approx. 40 m downstream where the wetted and channel width expand.
d20c	Kennarctic River	Small Permanent	187	Run 3 (< 0.5 m)	20	10	70	5	20	30	50	0	5	65	0	0	0	10	10	10	0	35	0	40	20	0	10	100	0	0	0	0	Rearing is good - habitat complexity and cover, spawning is nil, overwintering is nil, migration is good -no obstacles observed.
DM2C	Kennarctic River	Ephemeral	178	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ephemeral flow through grasses, no defined channel, wetland.
DM2 (KENNARCTIC)	Kennarctic River	Large Permanent	200	Run 2 (0.5 – 1.0 m)	20	15	65	0	15	75	10	0	5	5	0	0	0	40	25	25	0	10	0	5	0	0	50	25	0	0	0	##	Run habitat with some riffles, boulder cobble substrates
D42H	Kennarctic River	Ephemeral	224	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ephemeral flow through grasses, no defined channel, wetland.
D42	Kennarctic River	Large Permanent	190	Cascade/ Rapid	25	0	0	0	25	10	65	0	5	0	0	0	0	25	50	10	0	25	0	1	5	0	50	15	40	0	0	##	Predominantly cascade habitat, at end of surveyed area is riffles. Several side channels and islands. Boulder substrates
D43A	Kennarctic River	Ephemeral	n/a	No Visible Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No visible channel, no evidence of flow or seasonal flow in surveyed area, crossing is at top of ridge.
D44 (KENNARCTIC)	Kennarctic River	Large Permanent	184	Riffle	80	0	20	0	40	25	35	0	-	-	-	-	-	-	-	-	-	55	-	-	-	-	-	-	-	-	-	-	Spawning potential is nil - no suitable substrate. Rearing is excellent - lots of habitat complexity and interstitial spaces. Overwintering poor - no residual depths suitable. Migration is good - no obstructions.
133B	Kennarctic River	Small Permanent	200	Riffle	55	5	40	0	0	50	50	0	5	5	10	20	20	30	5	5	0	30	0	5	40	10	5	0	5	100	0	0	Small permanent. Riffle habitat upstream of crossing, downstream predominantly run. DS crossing is flooding and side channels. Lots of willows.

Table C.4-1 Fish Habitat Assessment Profiles at Stream Reaches within Road PDA, 2025

Watercourse ID	Watershed	Stream Class	Profile Length (m)	Dominant Habitat Type	Morphology (%/100)				Riparian (%/100)				Substrates (%/100)								Total Cover (%/ area)	Overhead Cover (%/ area)			Instream Cover (%/area)			Instream Vegetation (%/area)	Aquatic Vegetation (%/100)			Comment
					Riffle	Pool	Run	Flat	Bare	Grass	Shrub	Wetland	Organics	Fines	Sand	Small Gravel	Large Gravel	Cobble	Small Boulder	Large Boulder	Bedrock		Undercut Bank	Grasses	Shrubs	Small Woody Debris	Boulders	Water Visibility		Emergent	Submergent	Algae	
133D	Kennarctic River	Large Permanent	240	Cascade/ Rapid	5	5	0	0	40	10	50	5	0	5	5	5	5	25	20	20	15	0	5	10	0	0	80	0	0	25	0	75	133D1: Cascade/falls US crossing. Riffle at crossing. DS crossing cascade / step pools
			175	Cascade/ Rapid	5	10	0	0	50	15	35	5	0	5	0	0	10	25	25	25	10	0	1	5	0	0	75	0	0	25	0	75	133D3: Upstream of crossing is cascade/falls. At crossing is riffles and subsurface flows. Downstream of crossing is cascade with step pools. Large falls near end of surveyed transect
127A	Kennarctic River	Large Permanent	215	Riffle	75	0	10	0	75	0	25	0	0	0	0	0	0	50	20	20	10	25	0	0	5	0	40	50	0	0	0	##	Cascade, chute upstream n at crossing, downstream riffle habitat. Steep tall shall banks, some shrubs
123	Kennarctic River	Large Permanent	184	Run (unclassified)	0	0	80	20	30	15	55	0	0	0	0	0	5	5	0	80	10	80	0	0	0	0	100	0	0	0	0	0	Migration poor, spawning nil, rearing good, overwintering poor.
115 (JAMES)	James River	Large Permanent	175	Cascade/ Rapid	2	1	0	0	3	1	96	0	0	0	1	3	5	31	40	15	5	60	0	0	0	0	50	10	0	0	0	0	Stream profile is along the left bank. The stream is too fast to wade
114	James River	Ephemeral	50	Boulder Field	-	-	-	-	40	40	5	15	0	0	0	0	0	10	50	40	0	90	0	5	0	0	90	0	5	50	0	50	Low lying wetland area with areas of pooling water. Boulder field in the west end of crossing LAA, approximately 12 m wide.
105	Hood River	Large Permanent	167	Run 1 (>1.0 m)	0	0	100	0	0	40	60	0	80	20	0	0	0	0	0	0	0	10	0	0	0	0	0	10	0	60	0	40	Poor spawning habitat, poor overwintering - no deep pools. Rearing habitat is good. Migration is excellent - no obstructions.
104 (FRAYED KNOTS)	Hood River	Large Permanent	182	Riffle	80	10	10	0	10	40	50	0	0	5	0	5	0	5	10	60	15	40	0	0	0	0	65	0	0	0	0	0	Rearing is excellent - lots of cover and habitat complexity in stream morphology. Spawning is nil, overwintering is poor, migration is good - no obstructions.
103	Hood River	Ephemeral	200	Wetland	0	0	0	100	0	25	0	75	45	25	0	0	0	0	15	15	0	5	0	5	5	0	50	0	20	5	0	95	Wetland/boulder field with no defined banks at crossing, downstream of the crossing is a small lake.
101	Hood River	Boulder Field	200	Boulder Field	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Small areas of open water in boulder field.
P017	Hood River	Ephemeral	226	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Wetland adjacent to road, with no defined channel and ephemeral flow.
94 (HOOD)	Hood River	Large Permanent	167	Cascade/ Rapid	0	20	0	0	90	0	10	0	0	0	0	0	0	0	0	30	70	50	0	0	0	0	50	50	0	0	0	0	Extensive cascade morphology. Rearing is poor, overwintering is poor, migration is poor, spawning is nil
93c	Hood River	Ephemeral	280	No Visible Channel	-	-	-	-	50	30	20	0	50	15	10	5	5	5	0	0	0	5	0	5	5	5	0	0	25	100	0	0	Pond with depths greater than a meter, steep banks with lots of cobble and sand
					-	-	-	-	5	45	50	0	##	0	0	0	0	0	0	0	0	5	0	5	5	0	0	0	25	100	0	0	Shallow pond (less than 0.5 m), grass shrub riparian, two baby ducklings observed

Table C.4-1 Fish Habitat Assessment Profiles at Stream Reaches within Road PDA, 2025

Watercourse ID	Watershed	Stream Class	Profile Length (m)	Dominant Habitat Type	Morphology (%/100)				Riparian (%/100)				Substrates (%/100)								Total Cover (%/ area)	Overhead Cover (%/ area)			Instream Cover (%/area)			Instream Vegetation (%/area)	Aquatic Vegetation (%/100)			Comment
					Riffle	Pool	Run	Flat	Bare	Grass	Shrub	Wetland	Organics	Fines	Sand	Small Gravel	Large Gravel	Cobble	Small Boulder	Large Boulder	Bedrock		Undercut Bank	Grasses	Shrubs	Small Woody Debris	Boulders	Water Visibility		Emergent	Submergent	Algae	
92d	Hood River	Small Permanent	170	Run 3 (< 0.5 m)	0	0	60	40	0	50	0	50	70	20	6	2	0	1	1	0	0	2	0	5	0	0	0	0	10	100	0	0	Small and shallow defined channel with low quality fish habitat. Channel is area with wetland and pooled standing water, no fish or suitable fish habitat observed
92c	Hood River	Small Permanent	130	Flat	0	0	0	100	0	50	0	50	80	10	5	5	0	0	0	0	0	5	0	5	0	0	0	0	5	100	0	0	Shallow flat with organics us of crossing, channel narrows and has some sand and gravel with organics at crossing and DS
			130	Flat	0	0	40	60	0	50	0	50	25	20	15	5	5	3	1	1	0	5	2	5	0	0	0	0	5	75	0	25	Small side channel that joins 92c downstream of crossing
			480	Run 3 (< 0.5 m)	0	10	70	20	5	45	5	45	5	15	25	20	10	5	3	2	5	15	5	5	5	0	5	5	5	75	0	25	
88A	Hood River	Boulder Field	-	Boulder Field	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No visible channel, topography between two lakes was elevated suggesting that no surface water connectivity exists.
88	Hood River	Boulder Field	150	Boulder Field	-	-	-	-	50	25	25	0	0	0	0	0	0	5	25	40	30	80	0	0	0	0	90	0	20	0	50	50	Large boulder field with deep pools, lots of juvenile salmonids observed in downstream reach
87	Hood River	Large Permanent	120	Run 2 (0.5 – 1.0 m)	0	0	100	0	70	15	15	0	0	0	0	0	0	30	20	30	20	80	0	0	0	0	80	0	0	0	0	0	Rearing excellent, migration poor, overwintering poor, spawning nil. Boulder field in the middle of the right of way.
81A	Hood River	Ephemeral	-	No Visible Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	dry and no visible channel was observed, upstream or downstream of the crossing location
81B	Hood River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	wetland feature with no definable channel
81C	Hood River	Small Permanent	115	Run 3 (< 0.5 m)	0	0	100	0	0	80	20	0	65	10	0	5	5	5	5	5	0	15	0	15	5	0	5	0	25	100	0	0	Rearing is fair, overwintering is nil, spawning is nil, migration is fair.
81D	Hood River	Small Permanent	183	Run 3 (< 0.5 m)	0	5	90	5	10	50	40	0	10	5	0	5	5	25	25	25	0	30	0	10	10	0	60	75	0	0	0	0	Rearing is excellent, spawning is fair - some patches of suitable gravel and depths. Overwintering is nil, migration is poor with intermittent surface flow.
72	Burnside River	Large Permanent	315	Run 3 (< 0.5 m)	5	0	90	0	35	15	50	0	0	0	0	5	5	25	25	30	10	90	0	0	10	0	80	0	0	0	0	0	Rearing excellent, spawning fair, overwintering nil, migration fair. Stream flow direction is opposite of streamline direction.
71b	Burnside River	Intermittent	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No defined channel, wetland feature at crossing. Short intermittent stream connecting two wetland areas.
71	Burnside River	Large Permanent	155	Run 2 (0.5 – 1.0 m)	0	0	100	0	10	30	60	0	10	0	5	5	5	15	20	0	40	0	10	10	0	50	0	5	0	0	100	0	Fair for spawning with a few patches of suitable gravels. Migration is good, rearing is excellent and overwintering is nil.

Table C.4-1 Fish Habitat Assessment Profiles at Stream Reaches within Road PDA, 2025

Watercourse ID	Watershed	Stream Class	Profile Length (m)	Dominant Habitat Type	Morphology (%/100)				Riparian (%/100)				Substrates (%/100)								Total Cover (%/ area)	Overhead Cover (%/ area)			Instream Cover (%/area)			Instream Vegetation (%/area)	Aquatic Vegetation (%/100)			Comment
					Riffle	Pool	Run	Flat	Bare	Grass	Shrub	Wetland	Organics	Fines	Sand	Small Gravel	Large Gravel	Cobble	Small Boulder	Large Boulder	Bedrock		Undercut Bank	Grasses	Shrubs	Small Woody Debris	Boulders	Water Visibility		Emergent	Submergent	Algae	
68	Burnside River	Large Permanent	160	Run 2 (0.5 – 1.0 m)	35	0	50	15	25	25	50	0	0	0	0	2	3	20	45	30	0	55	0	7	3	0	55	0	5	100	0	0	Flow direction is opposite to arrows on streamline. Rearing is excellent, spawning is nil, overwintering is nil, migration is fair due to shallow riffles.
63	Burnside River	Large Permanent	156	Riffle	65	5	30	0	30	35	35	0	0	10	5	2	3	30	25	25	0	50	0	0	0	0	60	5	2	0	0	##	Large permanent, boulder cobble substrates dom, small juv fish and SLSC observed throughout
62 (BURNSIDE)	Burnside River	Large Permanent	160	Riffle	65	0	30	5	35	20	45	0	0	0	0	0	0	10	30	40	20	80	0	5	0	80	5	0	0	100	0	0	Rearing excellent, spawning nil, overwintering nil, migration good.
8	Burnside River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	This is not a stream, no visible channels were found outside of the ponded area. No distinct shift in vegetation communities were observed.
1002	Burnside River	Large Permanent	147	Riffle	40	35	25	0	5	50	45	0	0	20	0	5	5	25	25	20	0	35	0	5	5	0	35	5	0	0	0	0	Rearing is excellent, spawning is poor, overwintering is poor, migration is good.
P025	Burnside River	Ephemeral	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Drainage feature with ephemeral flow through saturated mosses and grasses, some standing water.
P026	Burnside River	Ephemeral	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Drainage feature with ephemeral flow through saturated mosses and grasses, some standing water.
49	Burnside River	Intermittent	120	Flat	5	15	0	80	0	80	20	0	40	5	10	3	20	20	2	0	0	10	5	5	1	0	0	0	20	60	40	0	Small defined watercourse downstream of wetlands, connects to lake downstream
			60	Flat	10	0	20	70	0	50	0	50	30	30	5	2	3	10	5	5	0	10	5	5	0	0	5	0	0	0	0	0	Small intermittent channel downstream of pond and wetland, connects to lake downstream
48	Burnside River	Intermittent	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Crossing has existing culvert along road for Jericho Station. no defined channel, only areas of pooled standing water in wetland and boulder fields was observed

Table C.4-2 Fish Habitat Assessment Transect Data at Stream Reaches within Road PDA, 2025

Watercourse ID	Watershed	Stream Class	Transect	Habitat Unit	Wetted Width	Channel Width	Wetted Depth (m)			Bankfull Max Depth (m)	Gradient (%)	Crown Closure (%)	Bank		Bank		Bank Material (Dominant, Subdominant)				Comments
							25% from LB (m)	50% from LB (m)	75% from LB (m)				Left	Right	Left	Right	Left		Right		
D7E	Arctic Ocean	Small Permanent	T1	Riffle	0.76	0.95	0.07	0.08	0.07	0.30	5	0	0.30	0.27	50	90	Large Boulder	Organics	Large Boulder	Organics	Starting point where watercourse channelized.
			T2	Flat	0.95	1.05	0.09	0.08	0.02	0.32	2	0	0.40	0.10	5	65	Fines	Organics	Fines	Organics	-
			T3	Flat	2.10	2.45	0.10	0.08	0.05	0.47	3	0	0.54	0.46	30	10	Fines	Organics	Fines	Organics	-
			T4	Flat	1.82	2.10	0.05	0.10	0.11	0.30	3	0	0.03	0.29	3	5	Fines	Organics	Fines	Organics	-
d11a	Kennarctic River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Wetland, ephemeral, no defined channel.
D11b	Kennarctic River	Ephemeral	T1	Run 3 (< 0.5 m)	0.20	1.82	0.03	0.02	0.04	0.08	2	0	0.25	0.25	5	5	Organics	Fines	Organics	Fines	-
			T2	Run 3 (< 0.5 m)	1.05	2.30	0.03	0.06	0.05	0.15	1	0	0.25	0.50	5	5	Organics	Fines	Organics	Fines	-
			T3	n/a	5.00	7.00	0.07	0.14	0.06	-	0	0	0.40	0.60	7	15	Organics	-	Organics	-	No stream. Stagnant water ponding.
d12a	Kennarctic River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Wetland feature with stagnant surface water, no defined channel. The wetland feature connects with D12B north of the centreline.
d12b	Kennarctic River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ephemeral wetland with no defined channel.
D14	Kennarctic River	Large Permanent	T1	Run 3 (< 0.5 m)	5.00	10.20	0.19	0.33	0.31	0.55	1	0	0.22	0.22	5	5	Organics	Fines	Organics	Fines	
			T2	Pool 1 (>1.0 m)	28.00	29.00	1.10	1.40	1.00	1.55	0.5	0	1.50	2.00	45	30	Organics	Fines	Organics	Fines	
			T3	Run 1 (>1.0 m)	22.50	23.70	0.41	0.39	0.60	0.45	0.5	0	1.20	0.35	45	10	Organics	Fines	Organics	Fines	
			T4	Riffle	10.80	16.90	0.08	0.12	0.42	0.57	6	1	0.50	0.50	45	45	Large Boulder	Organics	Small Boulder	Organics	
			T5	Run 1 (>1.0 m)	13.00	15.30	0.58	1.30	0.91	1.65	4	10	0.50	0.50	15	10	Organics	Fines	Organics	Fines	
d20c	Kennarctic River	Small Permanent	T1	Run 3 (< 0.5 m)	0.95	1.00	0.38	0.28	0.26	0.50	2	10	0.50	0.50	70	20	Fines	Sand	Fines	Sand	
			T2	Run 3 (< 0.5 m)	0.75	0.75	0.05	0.18	0.22	0.45	3	25	1.50	1.25	90	90	Sand	Fines	Fines	Sand	
			T3	Run 3 (< 0.5 m)	1.50	7.60	0.17	0.33	0.10	0.83	0.5	0	0.45	0.50	15	20	Organics	Fines	Organics	Fines	
DM2C	Kennarctic River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ephemeral flow through grasses, no defined channel, wetland.
DM2 (Kennarctic R.)	Kennarctic River	Large Permanent	T1	Run 2 (0.5 – 1.0 m)	51.50	61.50	0.98	0.63	0.26	2.20	2	0	0.70	1.20	50	20	Fines	Large Gravel	Small Boulder	Large Boulder	Run habitat in main channel with riffle on right downstream side.
			T2	Run 2 (0.5 – 1.0 m)	22.00	50.00	0.61	0.69	0.64	1.50	2	0	0.80	0.50	45	30	Cobble	Small Boulder	Organics	Small Boulder	
			T3	Run 1 (>1.0 m)	59.00	60.00	1.35	0.72	0.60	2.00	4	0	0.25	0.25	20	20	Organics	Fines	Organics	Small Boulder	
D42H	Kennarctic River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ephemeral flow through grasses, no defined channel, wetland.
D42	Kennarctic River	Large Permanent	T1	Cascade/ Rapid	9.30	9.90	0.54	0.32	0.71	1.40	6	0	0.70	0.60	90	90	Large Boulder	Small Boulder	Small Boulder	Cobble	
			T2	Cascade/ Rapid	11.50	12.30	0.38	0.54	0.34	0.75	5	0	0.35	0.40	60	30	Small Boulder	Organics	Small Boulder	Organics	
			T3	Riffle	9.20	10.40	0.19	0.20	0.17	0.40	2	5	0.20	0.15	20	20	Organics	-	Organics	-	
D43A	Kennarctic River	Ephemeral	-	No Visible Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No visible channel, no evidence of flow or seasonal flow in surveyed area, crossing is at top of ridge.

Table C.4-2 Fish Habitat Assessment Transect Data at Stream Reaches within Road PDA, 2025

Watercourse ID	Watershed	Stream Class	Transect	Habitat Unit	Wetted Width	Channel Width	Wetted Depth (m)			Bankfull Max Depth (m)	Gradient (%)	Crown Closure (%)	Bank		Bank		Bank Material (Dominant, Subdominant)				Comments
							25% from LB (m)	50% from LB (m)	75% from LB (m)				Left	Right	Left	Right	Left		Right		
D44 (Kennarctic R.)	Kennarctic River	Large Permanent	T1	Riffle	50.00	75.00	0.31	0.39	0.36	1.50	2	0	7.50	7.50	60	60	Organics	Small Boulder	Organics	Small Boulder	
			T2	Riffle	30.00	70.00	0.52	0.90	0.71	1.50	2	0	5.00	10.00	45	60	Organics	Small Boulder	Organics	Small Boulder	
			T3	Run 2 (0.5 – 1.0 m)	35.00	45.00	0.60	1.02	0.35	1.50	1	0	5.00	10.00	5	25	Large Boulder	Organics	Organics	Large Boulder	Migration good, rearing excellent, spawning poor, overwintering poor.
133B	Kennarctic River	Small Permanent	T1	Riffle	2.50	2.50	0.07	0.09	0.11	0.22	4	5	0.10	0.10	45	20	Organics	Fines	Organics	Cobble	Cobble, gravel substrate
			T2	Riffle	1.40	1.70	0.09	0.15	0.06	0.20	6	25	0.10	0.10	45	25	Small Gravel	Organics	Organics	Fines	
			T3	Riffle	1.20	1.70	0.14	0.20	0.17	0.50	4	15	0.20	0.30	45	45	Organics	Sand	Organics	Sand	
			T4	Flat	2.70	3.40	0.17	0.22	0.22	0.33	0	5	0.05	0.10	20	20	Sand	Small Gravel	Sand	Organics	Stream fans out DS of t4, flooding willows, overland flow.
			T5	Riffle	1.22	1.57	0.08	0.08	0.07	0.30	2	0	0.17	0.15	20	20	Small Gravel	Fines	Fines	Organics	Other small side channel with water fanning out towards confluence.
133D	Kennarctic River	Large Permanent	133D1-T1	Cascade/ Rapid	3.80	7.80	0.20	0.38	0.20	1.80	25	0	0.80	1.40	20	45	Bedrock	Large Boulder	Bedrock	Large Boulder	Channel width is obscure. Technically whole cascade could have flowing water.
			133D1-T2	Cascade/ Rapid	10.50	11.30	0.36	0.33	0.40	1.40	13	0	1.10	1.00	90	90	Bedrock	Large Boulder	Bedrock	Large Boulder	
			133D1-T3	Riffle	10.80	25.00	0.26	0.11	0.15	0.86	10	0	0.60	0.50	45	45	Large Boulder	Small Boulder	Large Boulder	Small Boulder	T3 includes 133D1 and 133D2 as they are same boulder field and no defining separation; flow goes subsurface in several spots
			133D1-T4	Cascade/ Rapid	6.20	7.30	0.18	0.25	0.28	1.20	28	0	0.90	0.50	45	45	Bedrock	Large Boulder	Bedrock	Large Boulder	Falls downstream of T4 (45% slope on falls).
			133D1-T5	Step-Pool	8.80	9.30	0.45	0.35	0.17	1.20	16	0	0.50	0.75	45	90	Bedrock	Large Boulder	Bedrock	Large Boulder	Downstream of T5 flows into Kennarctic River.
			133D2	Boulder Field	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Flow subsurface below boulder field from 133D1 and 133D3.
			133D3-T1	Cascade/ Rapid	13.00	14.50	0.30	0.20	0.43	1.50	30	0	0.50	1.00	45	45	Bedrock	Large Boulder	Bedrock	Large Boulder	
			133D3-T2	Cascade/ Rapid	12.10	13.00	0.24	0.35	0.20	1.15	28	0	0.50	0.80	30	90	Bedrock	Large Boulder	Bedrock	Large Boulder	Side channel from crossing that connects to 133D4.
			133D3-T3	Riffle	14.70	19.20	0.17	0.13	0.25	0.75	-	0	0.50	0.25	25	25	Organics	Small Boulder	Organics	Small Boulder	Boulder garden, hydrological connection via subsurface flow to adjacent sites.
			133D3-T4	Cascade/ Rapid	8.40	8.40	0.35	0.23	0.48	1.08	15	2	0.25	0.60	45	45	Large Boulder	Organics	Large Boulder	Organics	Falls downstream of T4 (53% slope on falls).
			133D4	n/a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Side channel from 133D3 upstream of crossing.
127A	Kennarctic River	Large Permanent	T1	Cascade/ Rapid	9.50	15.50	0.24	0.42	0.42	1.00	8	0	0.65	0.60	90	90	Bedrock	-	Bedrock	-	-
			T2	Cascade/ Rapid	6.00	8.30	0.20	0.25	0.38	0.85	10	0	0.45	0.40	90	50	Bedrock	-	Bedrock	Large Boulder	Crossing is at falls, approximately 5 m high. Bedrock substrates.
			T3	Riffle	14.30	15.00	0.24	0.22	0.21	0.70	5	0	0.45	0.45	45	90	Bedrock	-	Bedrock	-	Boulder cobble riffle, small pools along RDB.
			T4	Run 2 (0.5 – 1.0 m)	9.90	10.80	0.35	0.52	0.55	0.85	2	0	0.30	0.25	45	90	Bedrock	-	Bedrock	-	

Table C.4-2 Fish Habitat Assessment Transect Data at Stream Reaches within Road PDA, 2025

Watercourse ID	Watershed	Stream Class	Transect	Habitat Unit	Wetted Width	Channel Width	Wetted Depth (m)			Bankfull Max Depth (m)	Gradient (%)	Crown Closure (%)	Bank		Bank		Bank Material (Dominant, Subdominant)				Comments
							25% from LB (m)	50% from LB (m)	75% from LB (m)				Left	Right	Left	Right	Left		Right		
123	Kennarctic River	Large Permanent	T1	Run (Unclassified)	45.00	60.00	0.00	0.12	0.70	1.50	3	0	3.00	3.00	45	45	Large Boulder	Organics	Large Boulder	Organics	
			T2	Run (Unclassified)	25.50	54.00	0.66	0.45	0.38	-	2.5	0	3.00	3.00	15	15	Bedrock	Large Boulder	Bedrock	Large Gravel	Water flows within interstitial spaces of large boulders and bedrock. Channel flow can be seen intermittently when flow appears surficially.
			T3	Flat	55.00	70.00	0.81	0.66	0.61	-	1.5	0	3.00	3.00	15	15	Bedrock	Large Boulder	Large Boulder	Organics	Open water with large boulder substrate. No flow direction visible (stagnant). No fish observed in between large interstitial spaces. Likely void of fish if the WC freezes to bottom in the winter.
115 (James R.)	James River	Large Permanent	T1	Riffle	25.00	30.00	0.12	-	-	-	1.0	0	1.50	1.50	45	80	Bedrock	Organics	Large Boulder	Organics	Too deep and fast to wade beyond 33% from LB.
			T2	Cascade/ Rapid	25.00	30.00	-	-	-	-	2.0	0	1.50	2.00	30	45	Bedrock	Organics	Large Boulder	Organics	Too fast and deep to wade to get depths.
			T3	Cascade/ Rapid	16.00	18.00	0.47	1.50	-	-	5.5	0	2.50	2.00	53	45	Bedrock	Cobble	Bedrock	Large Gravel	Unsafe to wade to 50% and 75% from LB to collect depth measurements. Poor spawning potential, poor overwintering, fair for migration, fair for rearing.
114	James River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low lying wetland area with areas of pooling water. Boulder field in the west end of crossing LAA, approximately 12 m wide.
105	Hood River	Large Permanent	T1	Flat	30.50	35.00	-	-	-	-	0.5	0	1.50	1.50	20	20	Organics	Fines	Organics	Fines	Substrate is organic and fines. Flow is almost stagnant. Small tributary on left bank. Unsafe to measure depths.
			T2	Run 1 (>1.0 m)	21.00	24.00	-	-	-	-	1	0	1.50	1.50	45	45	Organics	Fines	Organics	Fines	Too deep and soft bottom to wade in for depths
			T3	Run 1 (>1.0 m)	16.00	20.00	-	-	-	-	1	0	1.50	1.50	30	25	Organics	Fines	Organics	Fines	Too deep and soft bottom to wade for depths
104 (Frayed Knots)	Hood River	Large Permanent	T1	Riffle	32.00	36.00	0.65	0.00	0.50	1.00	1	0	7.50	3.00	60	45	Organics	Bedrock	Organics	Small Boulder	
			T2	Riffle	35.00	36.00	0.22	0.34	0.95	1.25	2	0	7.50	4.00	80	40	Bedrock	Small Boulder	Organics	Small Boulder	
			T3	Riffle	32.00	40.00	0.29	0.59	1.00	2.00	2	0	0.50	1.00	70	10	Fines	Organics	Bedrock	Organics	
103	Hood River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Wetland/boulder field with no defined banks at crossing, downstream of the crossing is a small lake.
101	Hood River	Boulder Field	-	Boulder Field	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Small areas of open water in boulder field.
94 (Hood R.)	Hood River	Large Permanent	T1	Cascade/ Rapid	21.00	21.00	-	-	-	-	7	0	####	15.00	75	85	Bedrock	-	Bedrock	-	Unsafe to collect depth values.
			T2	Cascade/ Rapid	26.50	31.00	-	-	-	-	7	0	####	20.00	65	85	Bedrock	Bedrock	Bedrock	Bedrock	Unsafe to collect depth values.
			T3	Cascade/ Rapid	24.60	32.10	-	-	-	-	7	0	3.00	15.00	25	80	Bedrock	Large Boulder	Bedrock	Organics	Unsafe to collect depths. Channel widths approximated.
P017	Hood River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Wetland adjacent to road, with no defined channel and ephemeral flow.
93c	Hood River	Ephemeral	-	No Visible Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Undefined ephemeral channels, areas of pooling water, and wetlands downstream of drainages. Two small ponds in the surveyed area.

Table C.4-2 Fish Habitat Assessment Transect Data at Stream Reaches within Road PDA, 2025

Watercourse ID	Watershed	Stream Class	Transect	Habitat Unit	Wetted Width	Channel Width	Wetted Depth (m)			Bankfull Max Depth (m)	Gradient (%)	Crown Closure (%)	Bank		Bank		Bank Material (Dominant, Subdominant)				Comments
							25% from LB (m)	50% from LB (m)	75% from LB (m)				Left	Right	Left	Right	Left		Right		
92d	Hood River	Small Permanent	T1	Run 3 (< 0.5 m)	0.35	0.60	0.04	0.04	0.01	0.21	4	0	0.15	0.11	45	45	Organics	Fines	Organics	Fines	
			T2	Flat	0.20	0.36	0.10	0.10	0.07	0.22	4	0	0.14	0.10	45	45	Organics	Fines	Organics	Fines	
			T3	Run 3 (< 0.5 m)	0.55	0.75	0.07	0.06	0.02	0.17	-	0	0.15	0.08	30	10	Organics	Fines	Organics	Fines	Lots of ponding water on flat area near T3
92c	Hood River	Small Permanent	T1	Flat	3.60	4.50	0.05	0.11	0.07	0.21	1	0	0.10	0.08	25	25	Organics	-	Organics	-	
			T2	Flat	0.50	0.60	0.11	0.16	0.08	0.22	1	0	0.15	0.06	25	25	Fines	Organics	Fines	Organics	92c crossing
			T3	Flat	0.70	0.70	0.13	0.13	0.15	0.30	2	0	0.05	0.25	35	90	Organics	Fines	Organics	Fines	
			T4	Flat	1.20	1.25	0.15	0.19	0.15	0.28	2	0	0.10	0.05	45	25	Organics	Fines	Organics	Fines	
			T5	Flat	0.75	0.75	0.18	0.16	0.13	0.27	2	0	0.08	0.50	25	45	Organics	Fines	Organics	Fines	
			T6	Flat	1.75	1.75	0.14	0.11	0.16	0.20	2	0	0.10	0.10	45	45	Organics	Fines	Organics	Fines	P020 crossing
			T7	Run 2 (0.5 – 1.0 m)	0.63	3.64	0.11	0.07	0.04	0.43	7	0	0.17	0.32	45	15	Organics	Fines	Bedrock	Fines	
			T1	Flat	0.90	1.03	0.18	0.33	0.06	0.44	2	0	0.17	0.10	25	25	Organics	Fines	Bedrock	Fines	Side channel that enters into 92c downstream of crossing
			T2	Flat	0.90	1.05	0.24	0.27	0.13	0.39	2	0	0.07	0.15	45	45	Fines	Organics	Fines	Organics	
			T3	Flat	0.50	0.50	0.17	0.18	0.10	0.29	2	0	0.11	0.13	45	90	Fines	Organics	Fines	Organics	
88A	Hood River	Boulder Field	-	No Visible Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No visible channel, topography between two lakes was elevated suggesting that no surface water connectivity exists.
88	Hood River	Boulder Field	T1	Boulder Field	70.00	70.00	0.67	0.51	0.60	1.67	-	0	1.00	0.50	90	90	Large Boulder	Small Boulder	Large Boulder	Small Boulder	Habitat is boulder field; width could not be measured so it was estimated; gradient could not be measured due to heigh of boulders; max depth estimated due to deep unreachable water under boulders
			T2	Boulder Field	40.00	40.00	0.18	0.26	0.20	-	-	0	0.90	1.70	90	90	Bedrock	Large Boulder	Bedrock	Large Boulder	Channel and wetted width estimated; bankfill can't be measured because water flowing under boulders and bedrock, same w/ gradient
			T3	Flat	70.00	70.00	0.78	1.25	0.60	-	1	0	0.76	0.40	90	90	Bedrock	Large Boulder	Bedrock	Large Boulder	Channel and wetted estimated; habitat type is boulder field; bankful couldn't be estimate due to unknown water depths underneath boulders
87	Hood River	Large Permanent	T1	Run 2 (0.5 – 1.0 m)	25.00	26.00	0.43	0.00	0.35	0.78	1	0	2.00	2.00	90	25	Bedrock	Small Boulder	Bedrock	Cobble	
			T2	Riffle	3.87	9.50	0.15	0.23	0.22	0.57	3	0	1.00	1.50	20	45	Small Boulder	Cobble	Bedrock	Organics	
			T3	Run 2 (0.5 – 1.0 m)	4.50	7.50	0.54	0.33	0.29	0.79	1	0	0.25	0.25	20	15	Bedrock	Large Boulder	Bedrock	Small Boulder	
81A	Hood River	Ephemeral	-	No Visible Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	dry and no visible channel was observed, upstream or downstream of the crossing location
81B	Hood River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	wetland feature with no definable channel
81C	Hood River	Small Permanent	T1	Run 3 (< 0.5 m)	0.19	1.35	0.02	0.02	0.03	0.08	0.5	0	0.15	0.15	30	15	Organics	Fines	Organics	Fines	
			T2	Run 3 (< 0.5 m)	2.40	4.10	0.17	0.21	0.16	0.31	0.5	0	0.10	0.10	3	3	Organics	Fines	Organics	Fines	Intermittent surface water present downstream and upstream of transect.
81D	Hood River	Small Permanent	T1	Run 3 (< 0.5 m)	2.70	2.90	0.38	0.39	0.28	0.49	1	0	0.10	0.10	5	5	Organics	Fines	Organics	Fines	Flow is intermittent downstream. Suspected reason for absence of fish.
			T2	Run 3 (< 0.5 m)	0.99	1.01	0.04	0.04	0.09	0.18	0.5	0	0.25	0.25	85	85	Organics	Fines	Organics	Fines	
			T3	Run 3 (< 0.5 m)	4.40	4.80	0.15	0.35	0.18	0.55	1	0	0.20	0.20	7	5	Organics	Small Boulder	Organics	Fines	Some sections of boulder field upstream and downstream of transect where channel is hard to define.

Table C.4-2 Fish Habitat Assessment Transect Data at Stream Reaches within Road PDA, 2025

Watercourse ID	Watershed	Stream Class	Transect	Habitat Unit	Wetted Width	Channel Width	Wetted Depth (m)			Bankfull Max Depth (m)	Gradient (%)	Crown Closure (%)	Bank		Bank		Bank Material (Dominant, Subdominant)				Comments
							25% from LB (m)	50% from LB (m)	75% from LB (m)				Left	Right	Left	Right	Left		Right		
72	Burnside River	Large Permanent	T1	Run 3 (< 0.5 m)	11.00	13.00	0.24	0.42	0.27	0.67	1.5	0	0.25	0.20	5	3	Organics	Fines	Organics	Small Boulder	
			T2	Run 3 (< 0.5 m)	14.00	15.00	0.18	0.07	0.08	0.54	1	0	1.00	0.75	45	90	Cobble	Small Boulder	Organics	Fines	
			T3	Run 3 (< 0.5 m)	8.00	8.00	0.41	0.51	0.52	0.83	1	0	0.75	1.00	90	90	Large Boulder	Organics	Large Boulder	Organics	
71b	Burnside River	Intermittent	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No defined channel, wetland feature at crossing. Short intermittent strea connecting two wetland areas.
71	Burnside River	Large Permanent	T1	Run 3 (< 0.5 m)	9.00	10.00	0.30	0.38	0.68	0.95	1	0	1.50	1.50	30	30	Organics	Fines	Small Boulder	Organics	
			T2	Riffle	10.00	12.10	0.04	0.10	0.17	0.41	1	0	1.00	1.00	30	20	Organics	Fines	Organics	Fines	
			T3	Run 2 (0.5 – 1.0 m)	19.70	21.00	0.59	0.71	0.58	0.91	0.5	0	0.20	0.20	7	5	Organics	Fines	Organics	Fines	Substrate is fines with sparse boulders.
68	Burnside River	Large Permanent	T1	Riffle	37.00	45.00	0.44	0.14	0.14	0.70	1.5	0	0.25	0.25	15	5	Organics	Small Boulder	Small Boulder	Organics	Braided channel on left bank side.
			T2	Riffle	38.00	45.00	0.24	0.25	0.22	0.45	1.5	0	0.20	0.20	5	5	Organics	Large Boulder	Large Boulder	Organics	
			T3	Run 2 (0.5 – 1.0 m)	35.00	42.00	0.36	0.46	0.40	0.91	0.5	0	1.50	1.00	45	10	Organics	Fines	Organics	Fines	
63	Burnside River	Large Permanent	T1	Riffle	15.70	32.00	0.29	0.15	0.33	1.23	2	0	0.60	0.90	40	40	Small Boulder	Organics	Small Boulder	Organics	
			T2	Riffle	12.20	24.10	0.09	0.39	0.10	1.20	2	0	0.25	0.80	45	75	Organics	Cobble	Organics	Cobble	
			T3	Riffle	17.10	37.30	0.26	0.40	0.16	1.20	2	3	0.60	0.40	30	45	Cobble	Organics	Cobble	Organics	
62 (Burnside R.)	Burnside River	Large Permanent	T1	Riffle	35.00	37.00	0.45	0.42	0.92	1.50	2	0	5.00	2.00	45	10	Small Boulder	Organics	Small Boulder	Large Boulder	
			T2	Riffle	31.30	34.20	0.31	0.83	0.27	1.15	1	0	3.00	1.50	80	10	Large Boulder	Organics	Large Boulder	Small Boulder	
			T3	Riffle	100.00	131.00	0.47	0.85	0.42	2.30	2	0	1.50	1.10	35	15	Bedrock	Small Boulder	Bedrock	Large Boulder	Channel is divided by a large island. The channel on the right side of the island runs through a boulder field.
8	Burnside River	Ephemeral	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	This is not a stream, no visible channels were found outside of the ponded area. No distinct shift in vegetation communities were observed.
1002	Burnside River	Large Permanent	T1	Pool 1 (>1.0 m)	48.80	50.10	-	-	-	-	0.5	0	1.00	1.50	30	45	Organics	Fines	Organics	Fines	Too deep to get depths
			T2	Run 2 (0.5 – 1.0 m)	12.30	14.20	0.33	0.92	0.27	1.11	3	0	0.40	0.50	90	15	Organics	Fines	Cobble	Small Boulder	
			T3	Riffle	25.00	24.20	0.21	0.23	0.24	0.74	2.5	0	0.40	0.50	5	20	Small Boulder	Organics	Cobble	Organics	
P025	Burnside River	Ephemeral	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Drainage feature with ephemeral flow through saturated mosses and grasses, some standing water.
P026	Burnside River	Ephemeral	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Drainage feature with ephemeral flow through saturated mosses and grasses, some standing water.
49	Burnside River	Intermittent	T1	Flat	0.90	0.90	0.16	0.11	0.07	0.24	0	0	0.10	0.03	5	0	Organics	-	Organics	-	T1 is start of where flow becomes more defined channel
			T2	Flat	0.52	0.52	0.30	0.30	0.22	0.39	0	0	0.09	0.10	45	45	Organics	-	Organics	-	
			T3	Pool 3 (<0.5m)	1.20	1.20	0.22	0.46	0.44	0.58	2	0	0.14	0.10	90	90	Organics	-	Organics	-	
			T1	Run 3 (< 0.5 m)	0.57	0.57	0.11	0.15	0.10	0.40	3	0	0.22	0.15	50	50	Organics	-	Organics	-	small intermittent channel downstream of pond and wetland
48	Burnside River	Intermittent	-	Wetland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Crossing has existing culvert along road for Jericho Station. no defined channel, only areas of pooled standing water in wetland and boulder fields was observed

Table C.4-3 Fishing Effort Summary Results for Watercourses in the Road PDA, 2025

Sampling Method	Watercourse ID	Sampling ID	Sampling Date	End Date	Set Time (hh:mm:ss)	Lift Time (hh:mm:ss)	Fishing Hours (h)	# of Traps	Set Depth/ Site Length (m)	Electrofishing Details	Effort[1]	Arctic Char		Slimy Sculpin		Ninespine Stickleback	
												Catch	CPUE	Catch	CPUE	Catch	CPUE
Backpack Electrofishing	92c	EF1	3-Aug-25	3-Aug-25	18:21:27	18:47:06	-	-	220	900V, 12%, 30 Hz, 4 ms	1,000	0	0	0	0	0	0
	81D	81D	3-Aug-25	3-Aug-25	15:52:00	16:04:35	-	-	130	800 V, 12%, 30 Hz, 3.6 ms	277	0	0	0	0	0	0
	81C	81C	3-Aug-25	3-Aug-25	15:40:00	15:52:35	-	-	92.5	800 V, 12%, 30 Hz, 3.6 ms	107	0	0	0	0	0	0
	D20C	D20C	30-Jul-25	30-Jul-25	18:30:00	18:52:07	-	-	40	800 V, 12%, 30 Hz, 3.6 ms	150	0	0	0	0	0	0
	104	104	27-Jul-25	27-Jul-25	19:40:00	19:55:10	-	-	47.5	800 V, 12%, 30 Hz, 3.6 ms	406	0	0	1	0.2	0	0
	D44	D44	25-Jul-25	25-Jul-25	20:45:00	21:13:12	-	-	118	850 V, 12%, 30 Hz, 3.6 ms	394	3	0.8	1	0.3	0	0
	D11A	D11A	24-Jul-25	24-Jul-25	17:55:00	18:05:56	-	-	65.0	800 V, 12%, 30 Hz, 3.6 ms	286	0	0	0	0	0	0
Minnow Trapping	101	101-MT-1	26-Jul-25	26-Jul-25	14:36:34	15:35:52	0.99	1	0.2	-	1.0	0	0	0	0	0	0
	101	101-MT-2	26-Jul-25	26-Jul-25	14:39:35	15:35:35	0.93	1	0.3	-	0.9	0	0	0	0	0	0
	101	101-MT-3	26-Jul-25	26-Jul-25	14:46:23	15:42:10	0.93	4	0.5	-	3.7	0	0	0	0	0	0
	103	103-MT-1	26-Jul-25	26-Jul-25	16:07:50	16:45:47	0.63	2	0.3	-	1.3	0	0	0	0	0	0
	103	103-MT-3	26-Jul-25	26-Jul-25	16:09:18	16:45:41	0.61	4	-	-	2.4	0	0	0	0	0	0
	114	114-MT-1	25-Jul-25	25-Jul-25	14:58:28	15:47:23	0.82	1	0.2	-	0.8	0	0	0	0	0	0
	114	114-MT-2	25-Jul-25	25-Jul-25	15:00:23	15:50:56	0.84	1	0.3	-	0.8	0	0	0	0	0	0
	114	114-MT-3	25-Jul-25	25-Jul-25	15:02:01	15:52:00	0.83	1	0.2	-	0.8	0	0	0	0	0	0
	114	114-MT-4	25-Jul-25	25-Jul-25	15:05:00	15:53:47	0.81	2	0.3	-	1.6	0	0	0	0	0	0
	115	115	25-Jul-25	25-Jul-25	15:22:00	16:52:00	1.50	6	0.8	-	9.0	0	0	0	0	0	0
	92c	92C-MT-1	3-Aug-25	3-Aug-25	15:30:24	18:56:48	3.44	1	0.1	-	3.4	0	0	0	0	0	0
	92c	92C-MT-2	3-Aug-25	3-Aug-25	15:30:46	18:59:18	3.48	3	0.2	-	10.4	0	0	0	0	0	0
	92c	92C-MT-3	3-Aug-25	3-Aug-25	15:32:47	18:59:36	3.45	2	0.3	-	6.9	0	0	0	0	0	0
	93c	93C-MT1	27-Jul-25	27-Jul-25	20:15:00	21:17:32	1.04	3	-	-	3.1	0	0	0	0	0	0
	93c	93C-MT2	27-Jul-25	27-Jul-25	20:28:49	21:22:13	0.89	3	-	-	2.7	0	0	0	0	0	0
	D42H	D42H-MT-1	30-Jul-25	30-Jul-25	20:50:00	21:20:00	0.50	3	-	-	1.5	0	0	0	0	0	0
	D42H	D42H-MT-2	30-Jul-25	30-Jul-25	20:53:18	21:30:00	0.61	2	0.3	-	1.2	0	0	0	0	0	0
	D7E	D7E-MT-1	24-Jul-25	24-Jul-25	15:57:30	17:37:59	1.67	2	0.3	-	3.3	0	0	0	0	0	0
	D7E	D7E-MT-2	24-Jul-25	24-Jul-25	16:01:51	17:35:20	1.56	2	-	-	3.1	0	0	0	0	0	0
	D7E	D7E-MT-3	24-Jul-25	24-Jul-25	16:04:26	17:33:32	1.49	2	0.4	-	3.0	0	0	0	0	0	0
	DM2C	DM2C-MT-1	30-Jul-25	30-Jul-25	19:39:20	20:24:00	0.74	5	-	-	3.7	0	0	0	0	0	0

Notes:

CPUE = catch per unit effort.

[1] Units for effort for backpack electrofishing = seconds, minnow trapping = hours.

C.5 Drone Imagery Results

Grays Bay Road and Port

Stantec Site ID: DM2 (KENNARCTIC)		**Stream Classification:** Large Permanent	
UTM: 12	**Easting:** 514132	**Northing:** 7497789	**Survey Date:** July 28, 2025

Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline

Grays Bay Road and Port

Stantec Site ID:	D42			**Stream Classification:**	Large Permanent		
UTM:	12	**Easting:**	510168	**Northing:**	7487059	**Survey Date:**	July 28, 2025

Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline

Grays Bay Road and Port

Stantec Site ID:	133D			**Stream Classification:**	Boulder Field		
UTM:	12	**Easting:**	506794	**Northing:**	7477229	**Survey Date:**	July 25, 2025

Left: Aerial View looking Northeast
Top Right: Upstream centreline
Bottom right: Downstream centreline

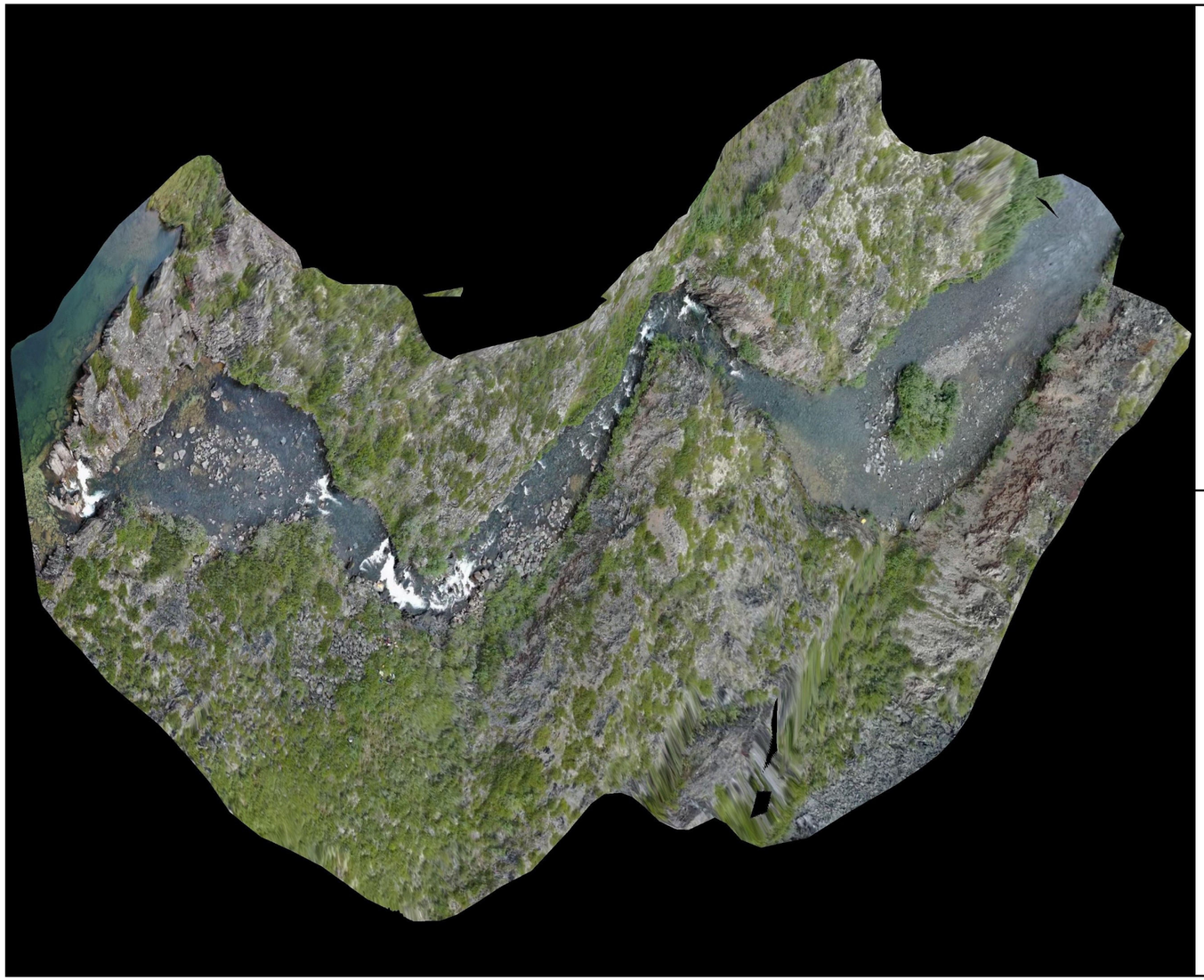
Grays Bay Road and Port

Stantec Site ID:	D44 (KENNARCTIC)			**Stream Classification:** Large Permanent			
UTM:	12	**Easting:**	508140	**Northing:**	7485446	**Survey Date:**	July 25, 2025

Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline

Grays Bay Road and Port

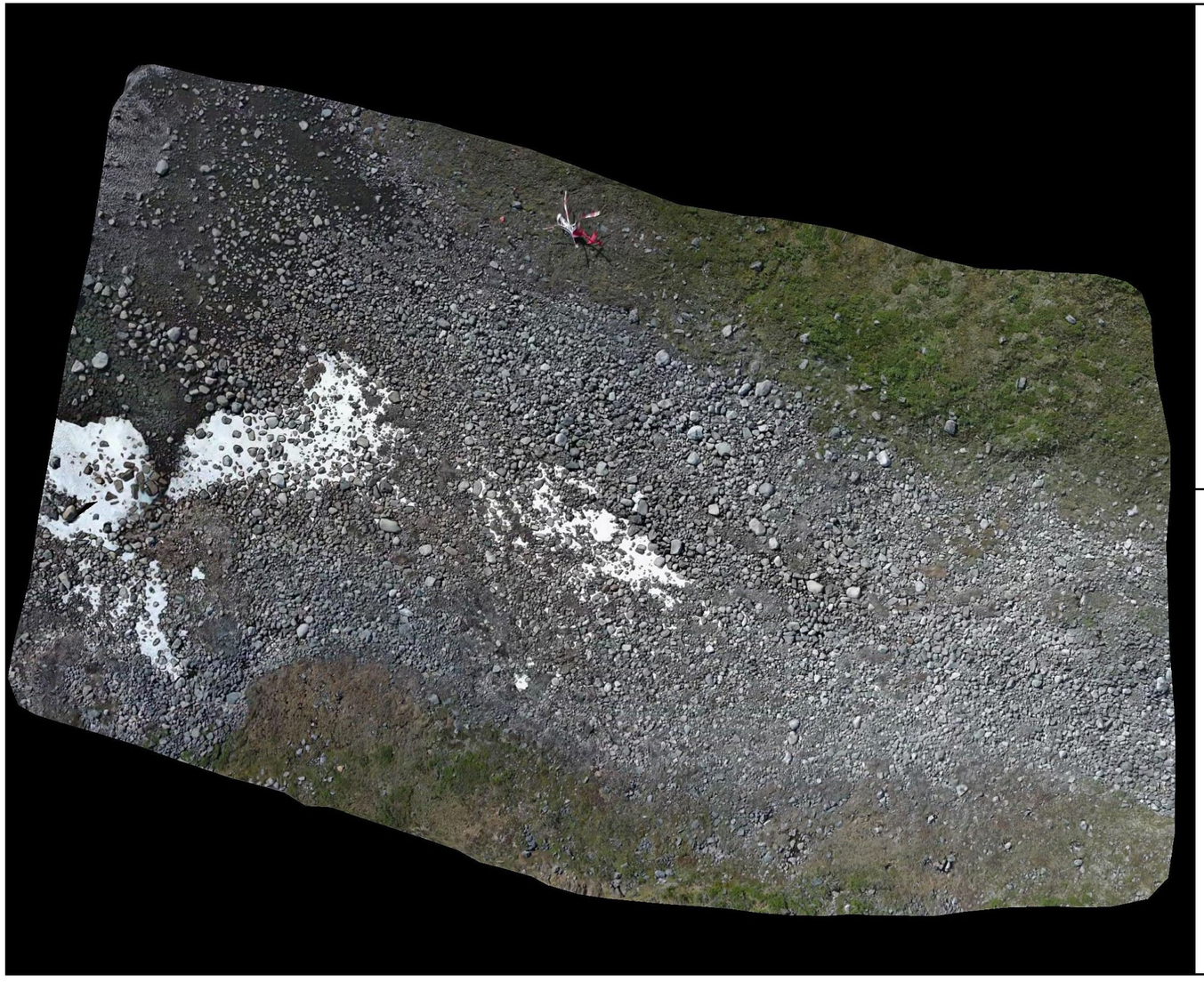
Stantec Site ID:	127A			**Stream Classification:** Large Permanent			
UTM:	12	**Easting:**	507468	**Northing:**	7471113	**Survey Date:**	July 28, 2025



Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline

Grays Bay Road and Port

Stantec Site ID:	123			**Stream Classification:**	Large Permanent		
UTM:	12	**Easting:**	509246	**Northing:**	7466274	**Survey Date:**	July 25, 2025



Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline

Grays Bay Road and Port

Stantec Site ID:	115 (JAMES)			**Stream Classification**: Large Permanent			
UTM:	12	**Easting:**	509616	**Northing:**	7451367	**Survey Date:**	July 25, 2025

Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline

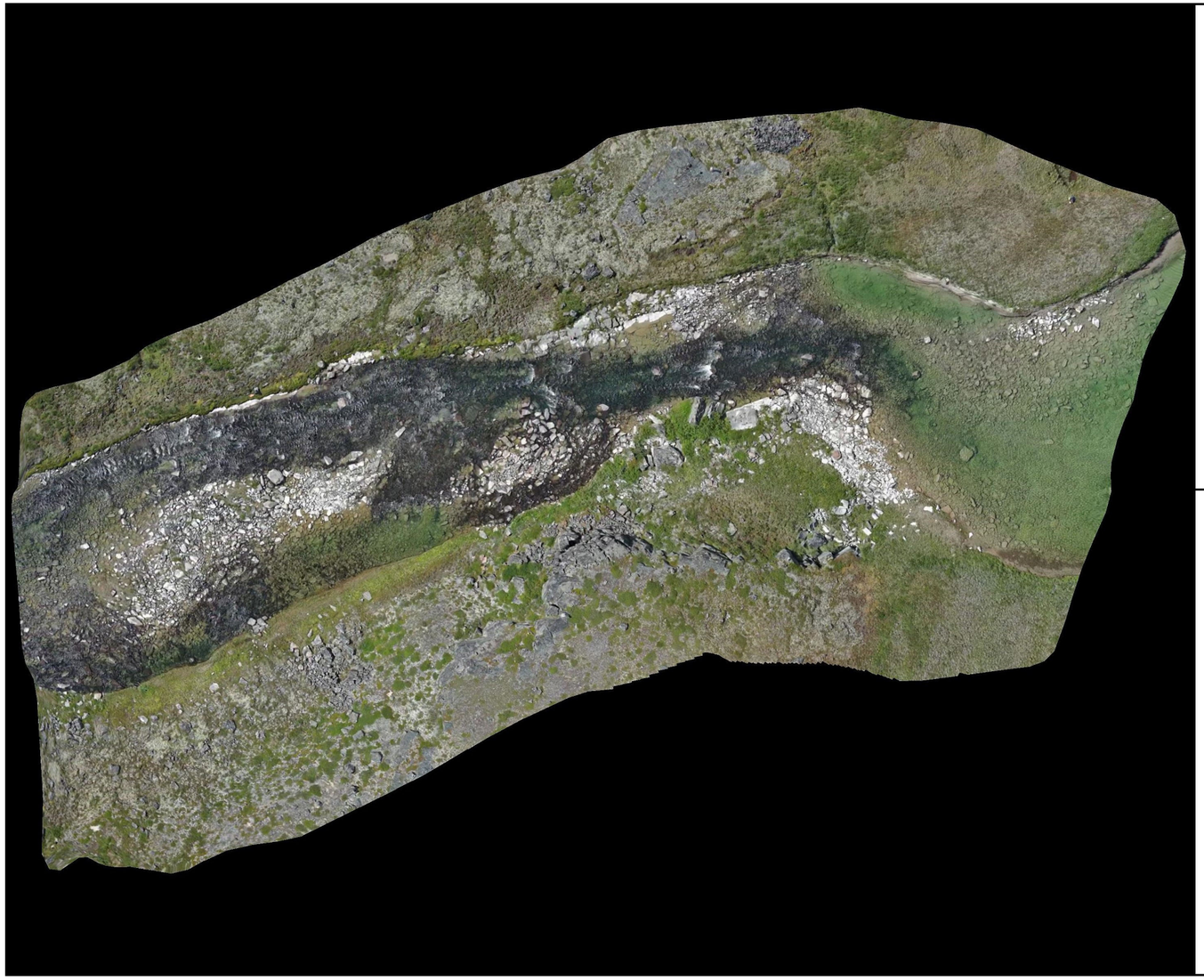
Grays Bay Road and Port

Stantec Site ID:	105			**Stream Classification:**	Large Permanent		
UTM:	12	**Easting:**	504622	**Northing:**	7427491	**Survey Date:**	July 26, 2025

Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline

Grays Bay Road and Port

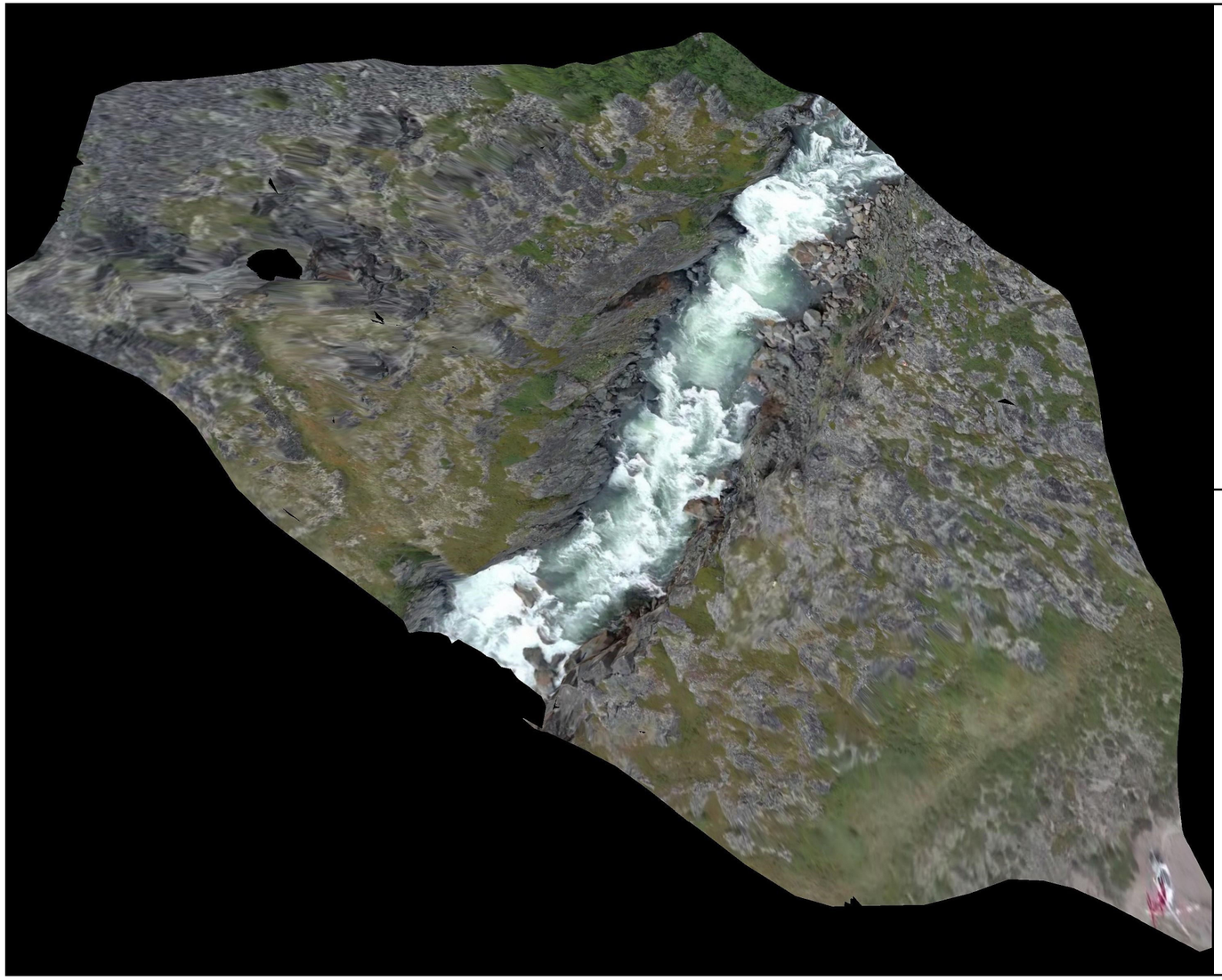
Stantec Site ID:	104 (FRAYED KNOTS)			**Stream Classification:** Large Permanent			
UTM:	12	**Easting:**	502804	**Northing:**	7425638	**Survey Date:**	July 27, 2025



Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline

Grays Bay Road and Port

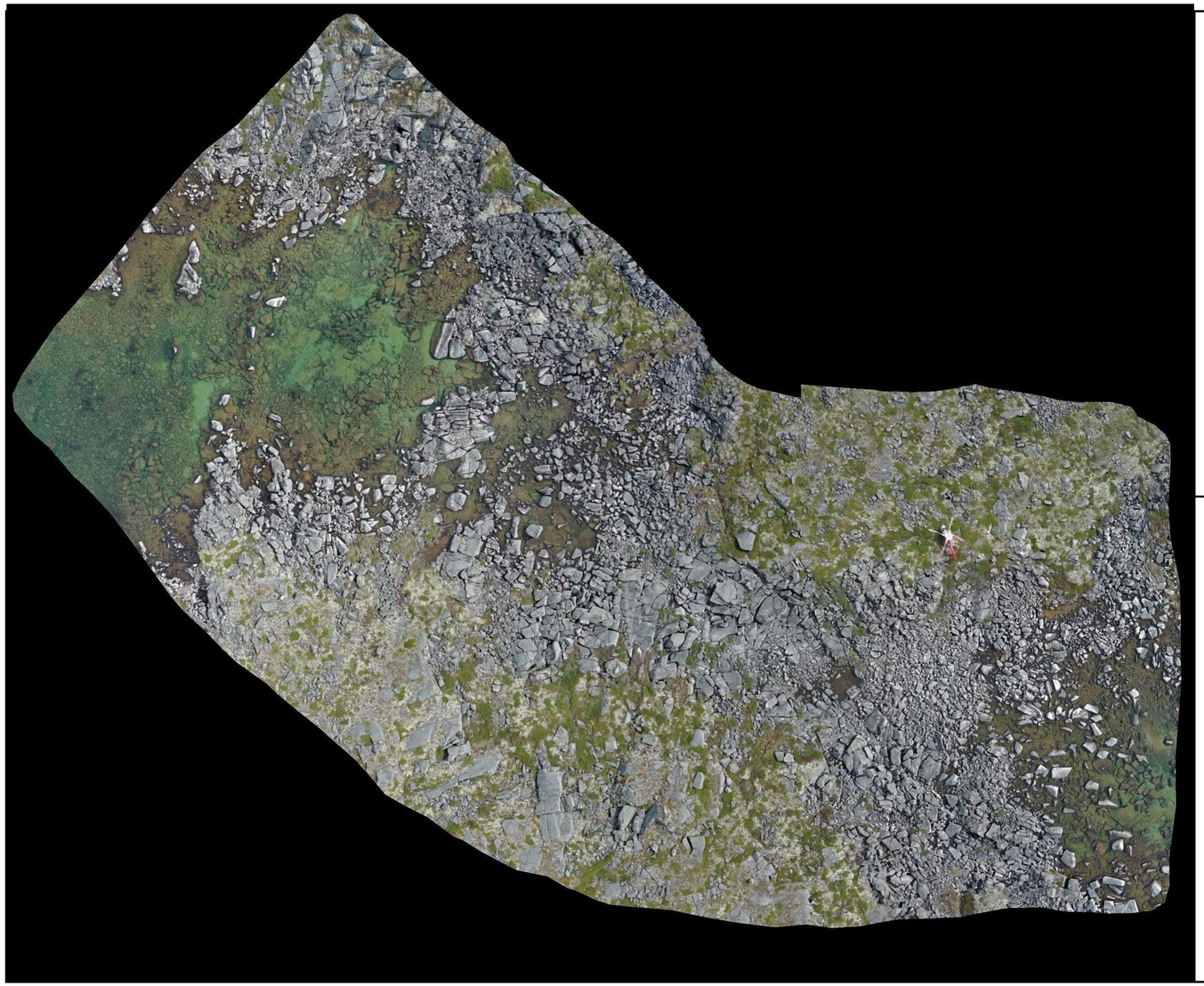
Stantec Site ID:	94 (HOOD)			**Stream Classification:**	Large Permanent		
UTM:	12	**Easting:**	500228	**Northing:**	7408343	**Survey Date:**	July 27, 2025



Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline

Grays Bay Road and Port

Stantec Site ID:	88			**Stream Classification:**	Large Permanent		
UTM:	12	**Easting:**	499187	**Northing:**	7392270	**Survey Date:**	August 2, 2025



Left: Aerial View
Top Right: Upstream centreline
Bottom right: Downstream centreline