

APPENDIX G IMPACTED SOIL INVENTORY

AEC # ⁽¹⁾	Structure/Site Debris Designation	Exceedances	Location of Exceedances	Estimated Volume of PHC Impacted Soil (m ³)	Estimated Volume of Tier II Metal Impacted Soil (m ³)	Estimated Volume of Co-Contaminated Soil (m ³) ⁽²⁾
1	Storage Shed 01	Cadmium	Southwest corner & along south side of building.	-	59	-
		Cadmium and Tin	Southeast corner & along south side of building.			
3	New Radio Building & Small Shed	PHC Fractions F1, F2 and F3; Copper, Tin, Lead, Selenium and Zinc.	Southwest corner of the building.	65	-	21
		PHC Fractions F1, F2 and F3; Ethylbenzene; Copper.	South of southwest corner of the building.			
		PHC Fractions F1, F2 and F3.	South of building.			
4	Old Radio Building	PHC Fractions F1, F2 and F3; Selenium	East of building.	14.5	14	11.5
		PHC Fractions F1, F2 and F3; Barium, Copper, Tin, Lead, Selenium and Zinc.	West side of building.			
		Selenium	Northeast of building, on the trail.			
6	Storage Shed 02	Selenium	South of southeast corner of the building.	-	1	-
9	Bunkhouse	PHC Fractions F1, F2 and F3	North of building; northwest of tanks.	4	25	-
		Tin	North of building and northeast corner of building.			
		Copper and Tin	East of building.			
10	Generator Building	Tin	North of northwest corner of building.	-	3	-

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IMPACTED SOIL INVENTORY (Continued)

AEC # (1)	Structure/Site Debris Designation	Exceedances	Location of Exceedances	Estimated Volume of PHC Impacted Soil (m3)	Estimated Volume of Tier II Metal Impacted Soil (m3)	Estimated Volume of Co- Contaminated Soil (m3) (2)
11/12	House and Garage Building Foundation Shed	PHC Fractions F1, F2 and F3	West and northwest of House & Garage along the Former Fuel Distribution Line. Southwest of House & Garage.	1898		176
		PHC Fractions F1, F2 and F3	Southwest of House & Garage; southwest of Shed and north of northwest corner of Shed.			
		PHC Fractions F1, F2 and F3; Benzene, Toluene and Ethylbenzene.	South of House & Garage.			
		Lead, Zinc and PHC Fractions F1, F2 and F3.	North of House & Garage along the Pipeline (Former Fuel Distribution Line).			
		PHC Fractions F1, F2 and F3; Benzene, Toluene, Ethylbenzene; Lead, Selenium and Zinc.	Southwest and southeast of House & Garage.			
		Benzene, Tin, Lead and Selenium.	West of Shed.			
11/12	House and Garage Building Foundation Shed	Benzene, Toluene and Ethylbenzene	Southeast corner of House & Garage.	1,898		176
		Benzene	West of Shed.			
13	House	Tin, Lead	Southwest of House.	9.5	15	7
		Tin and Benzene	West of House & Tank			
		Lead, Selenium and Tin	Northwest of House			
14	AST Farm	PHC Fractions F1, F2 and F3	West, north and northeast of Helipad.	54	-	-

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16	Debris Area 01	Lead and Tin	South and northeast part of area	-	20	-
21	Debris Area 06	Barium and Tin	South part of area	-	1	-
Total Volume of Impacted Soil				2,045	143	216
Total Volume of Impacted Soil with 15% Contingency				2,352	165	248

(1) **AEC = Area of Environmental Concern**

(2) **Co-contaminated soil = metal and petroleum hydrocarbon (PHC) impacted soil.**

(3) **Reference: Remedial Action Plan. Former Weather Station Nottingham Island, Nunavut. April 2013. EBA, A Tetra Tech Company.**