Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: DUST 11 DATE (dd-mmm-yyyy): 19-Jul-2020 TIME (24:00): 1048

SAMPLED BY: BP TYPE OF SAMPLE: Dust Other

GPS COORDINATES (UTM): 531493 E 7150156 N (Zone) 12

DESCRIPTION: Q2

CLIMATE CONDITIONS (if sampling outside)

Air Temp: 19 °C Wind Direction: 5 Wind Speed (knots): 6

Precipitation: rain / mist / snow / N/A Cloud Cover: 0%, 10%, 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, 100% Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-03-27

- bugs in sample

Total Volume of Water After Melting: 2300 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	120.2	145.7	25.5	
2	121.0	210.5	89.5	
3	119.2	212.3	93.1	
4	120.0	245.1	125.1	
5	120.0	121.0	1.0	
6				
7				
8				
9				
10				
11				
Totals	600.4	934.6	334.2	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: DUST 12 DATE (dd-mmm-yyyy): 19-Jul 2020 TIME (24:00): 1040

SAMPLED BY: BP TYPE OF SAMPLE: Dust Other

GPS COORDINATES (UTM): 529023 E 7151191 N (Zone) 12

DESCRIPTION: Q2

CLIMATE CONDITIONS (if sampling outside)

Air Temp: 14 °C Wind Direction: 5 Wind Speed (knots): 6

Precipitation: rain / mist / snow / N/A Cloud Cover: 0%, 10%, 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, 100% Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-03-27

- some bugs + visible dust in sample

Total Volume of Water After Melting: 1375 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	115 4	158 3	42.9	filter green
2	114 4	164.0	49.6	filter green
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	229.8	322.3	92.5	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	**Revision:**	R0
Effective Date:	26-Mar-2012	**By:**	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: DUST C1 **DATE (dd-mmm-yyyy):** 18-Jul-2020 **TIME (24:00):** 1516

SAMPLED BY: BP 552 **TYPE OF SAMPLE:** Dust **Other**

GPS COORDINATES (UTM): 534479 **E** 7144270 **N (Zone)** 12

DESCRIPTION: Q2

CLIMATE CONDITIONS (if sampling outside)

Air Temp: 21 °C **Wind Direction:** SW **Wind Speed (knots):** 11

Precipitation: rain / mist / snow / (N/A) **Cloud Cover:** 0%, 10%, (25%), 50%, 75%, 100

Snow Cover: (0%), 10%, 25%, 50%, 75%, 100% **Dust in area:** Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-03-27

- tilted post
- visible dust in sample
- bugs + hair in sample

Total Volume of Water After Melting: 1325 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	114.6	176.0	61.4	dust is green
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	114.6	176.0	61.4	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	**Revision:**	R0
Effective Date:	26-Mar-2012	**By:**	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: DUST C2 **DATE (dd-mmm-yyyy):** 14-Jul-2020 **TIME (24:00):** 1030

SAMPLED BY: BP **TYPE OF SAMPLE:** Dust **Other**

GPS COORDINATES (UTM): 528714 **E** 7153276 **N (Zone)** 12

DESCRIPTION: Q2

CLIMATE CONDITIONS (if sampling outside)

Air Temp: 14 °C **Wind Direction:** S **Wind Speed (knots):** 6

Precipitation: rain / mist / snow / N/A **Cloud Cover:** 0%, 10%, 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, 100% **Dust in area:** Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-03-27

- bugs in sample
- green "dust" in sample

Total Volume of Water After Melting: 1250 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	114.3	148.4	34.1	filter green
2	119.5	119.5	0.0	
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	233.8	267.9	34.1	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: EBW DATE (dd-mmm-yyyy): 20-07-2020 TIME (24:00): 0910

SAMPLED BY: BP TYPE OF SAMPLE: Dust Other

GPS COORDINATES (UTM): N/A E N (Zone)

DESCRIPTION: D2

CLIMATE CONDITIONS (if sampling outside) N/A

Air Temp: °C Wind Direction: Wind Speed (knots):

Precipitation: rain / mist / snow / N/A Cloud Cover: 0%, 10%, 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, 100% Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 20-07-2020

No visible dust or discoloration

OI Lot # 200420

Total Volume of Water After Melting: 1000 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	120.3	122.3	2.0mg	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals				

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust1 DATE (dd-mmm-yyyy): 2020-10-22 TIME (24:00): 0837

SAMPLED BY: SS2 BP TYPE OF SAMPLE: Dust Other

GPS COORDINATES (UTM): 533964 E 7154321 N (Zone) 12W

DESCRIPTION: Q3 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -7 °C Wind Direction: N Wind Speed (knots): 14

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-17

Sample mostly clear, some bugs

Total Volume of Water After Melting: 1350 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	118.4	158.9	40.5	
2	120.8	279.4	158.6	
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	239.2	438.3	199.1	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 2A DATE (dd-mmm-yyyy): 2020-10-20 TIME (24:00): 1212

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): S35678 E 715139 N (Zone) 12V

DESCRIPTION: Q3 dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -13 °C Wind Direction: NW Wind Speed (knots): 5

Precipitation: rain / mist / snow / (N/A) Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-18

Lots of bugs in sample, cloudy.
Some visible dust, white in colour.

Total Volume of Water After Melting: 1225 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	116.7	148.3	31.6	organic material remaining on filter
2	118.2	158.6	40.4	small amount of org. material
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	234.9	306.9	72.0	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust3 DATE (dd-mmm-yyyy): 2020-10-22 TIME (24:00): 0913

SAMPLED BY: SSZ BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 535024 E 7151872 N (Zone) 12V

DESCRIPTION: Q3 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -7 °C Wind Direction: N Wind Speed (knots): 14

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-17

Fairamount of white dust, few bugs.

Total Volume of Water After Melting: 1200 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	127.1	403.5	276.4	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	127.1	403.5	276.4	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 4 DATE (dd-mmm-yyyy): 2020-10-23 TIME (24:00): 1624

SAMPLED BY: S.S2 RP TYPE OF SAMPLE: (Dust) Other _____

GPS COORDINATES (UTM): 531397 E 7152127 N (Zone) 12W

DESCRIPTION: D3 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -7 °C Wind Direction: W Wind Speed (knots): 16

Precipitation: rain / mist / snow (N/A)

Cloud Cover: 0%, 10%, 25%, (50%), 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-17

One bolt missing from plastic shell on station.

Sample mostly clear, a few bugs and visible white dust

Total Volume of Water After Melting: 1500 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	125.5	177.4	51.9	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	125.5	177.4	51.9	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 5 DATE (dd-mmm-yyyy): 2020-10-20 TIME (24:00): 1137

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 535696 E 7155138 N (Zone) 12W

DESCRIPTION: Q3 dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -13 °C Wind Direction: NW Wind Speed (knots): 5

Precipitation: rain / mist / snow (N/A) Cloud Cover: 0%, 10%, 25%, 50%, (75%), 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-18

Sample clear, few bugs. Little visible dust.

Total Volume of Water After Melting: 975 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	124.7	165.2	40.5	some org. material left
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	124.7	165.2	40.5	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 6 DATE (dd-mmm-yyyy): 2020-10-22 TIME (24:00): 0857

SAMPLED BY: SS2 BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 537502 E 7152934 N (Zone) 12W

DESCRIPTION: Q3 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -7 °C Wind Direction: N Wind Speed (knots): 14

Precipitation: rain / mist / snow (N/A) Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-Oct-18

Sample cloudy, with many bugs.

Total Volume of Water After Melting: 1000 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	125.7	129.9	4.2	
2	112.7	114.8	2.1	
3	118.9	156.6	37.7	
4				
5				
6				
7				
8				
9				
10				
11				
Totals	357.3	401.3	44.0	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 7 DATE (dd-mmm-yyyy): 2020-10-20 TIME (24:00): 1202

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 536811 E 7150510 N (Zone) 12V

DESCRIPTION: Q3 dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -12 °C Wind Direction: NW Wind Speed (knots): 5

Precipitation: rain / mist / snow / (N/A) Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-18

Station somewhat tilted; dust gauge tilted against side of plastic shield. Sample slightly cloudy, several large bugs

Total Volume of Water After Melting: 1400 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	118.5	192.9	74.4	small amount of org. material
2	115.4	150.6	35.2	
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	233.9	343.5	109.6	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 8 DATE (dd-mmm-yyyy): 2020-10-20 TIME (24:00): 1308

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 531401 E 7154146 N (Zone) 12W

DESCRIPTION: Q3 dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -12 °C Wind Direction: NW Wind Speed (knots): 5

Precipitation: rain / mist / snow / (N/A) Cloud Cover: 0%, 10%, 25%, (50%), 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-19

Station tilted, appears to have sunk somewhat into marshy ground.

Sample slightly foamy and cloudy with very slight greenish-grey colour, large number of bugs.

Sample extremely difficult to pass through filters despite relatively low quantities of dust.

Total Volume of Water After Melting: 1725 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	119.1	120.1	1.0	
2	116.9	149.7	32.8	
3	117.7	132.8	15.1	
4	125.4	134.6	9.2	
5	125.9	126.0	0.1	
6	120.4	136.9	16.5	
7				
8				
9				
10				
11				
Totals	725.4	800.1	74.7	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 9 DATE (dd-mmm-yyyy): 2020-10-20 TIME (24:00): 1149

SAMPLED BY: VP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 541204 E 7152154 N (Zone) 12W

DESCRIPTION: Q3 dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -12 °C Wind Direction: NW Wind Speed (knots): 5

Precipitation: rain / mist / snow / (N/A) Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-18

Gauge frozen firmly into stand, required several firm taps with a rock to remove.

Sample mostly clear, some bugs + white dust

Total Volume of Water After Melting: 925 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	112.8	130.2	17.4	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	112.8	130.2	17.4	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 10 DATE (dd-mmm-yyyy): 2020-10-22 TIME (24:00): 0933

SAMPLED BY: SS2 BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 532908 E 7148924 N (Zone) 12V

DESCRIPTION: QR Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -7 °C Wind Direction: N Wind Speed (knots): 14

Precipitation: rain / mist / snow (N/A) Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-17

Sample mostly clear, many bugs.

Total Volume of Water After Melting: 1475 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	127.3	177.7	50.4	
2	127.2	214.7	87.5	
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	254.5	392.4	137.9	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 11 DATE (dd-mmm-yyyy): 2020-10-20 TIME (24:00): 1239

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 531493 E 7150156 N (Zone) 12W

DESCRIPTION: Q3 dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -12 °C Wind Direction: NW Wind Speed (knots): 5

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, 10%, 25%, (50%), 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-19

Sample very clear, very few bugs and minimal visible dust.

Total Volume of Water After Melting: 1950 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	123.4	136.1	12.7	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	123.4	136.1	12.7	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 12 DATE (dd-mmm-yyyy): 2020-10-20 TIME (24:00): 1251

SAMPLED BY: RP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 529323 E 7151191 N (Zone) 12W

DESCRIPTION: Q3 dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -12 °C Wind Direction: NW Wind Speed (knots): 5

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, 10%, 25%, (50%), 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-19

Sample mostly clear, some bugs.
Visible dust white

Total Volume of Water After Melting: 1600 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	117.7	157.8	40.1	
2	116.5	137.7	21.2	
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	234.2	295.5	61.3	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust C1 DATE (dd-mmm-yyyy): 2020-10-20 TIME (24:00): 1222

SAMPLED BY: RP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 524979 E 7144270 N (Zone) 12W

DESCRIPTION: Q3 dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -12 °C Wind Direction: NW Wind Speed (knots): S

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-14

Sample mostly clear, some bugs + debris.

Total Volume of Water After Melting: 1650 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	125.4	186.5	61.1	small amount of org. material
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	125.4	186.5	61.1	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust C2 DATE (dd-mmm-yyyy): 2020-10-20 TIME (24:00): 1258

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 528714 E 7153276 N (Zone) 12W

DESCRIPTION: Q3 dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -12 °C Wind Direction: NW Wind Speed (knots): 5

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, 10%, 25%, (50%), 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-07-19

Sample appeared slightly foamy, many large bugs.
Sample cloudy, small amount of white dust visible.

Total Volume of Water After Melting: 1375 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	118.0	140.9	22.9	
2	118.4	129.2	10.8	small amount of org. material
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	236.4	270.1	33.7	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: EBW DATE (dd-mmm-yyyy): 2020-10-21 TIME (24:00): 0920

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other _____

GPS COORDINATES (UTM): N/A E _____ N (Zone) _____

DESCRIPTION: D3

CLIMATE CONDITIONS (if sampling outside) N/A

Air Temp: _____ °C Wind Direction: _____ Wind Speed (knots): _____

Precipitation: rain / mist / snow / N/A Cloud Cover: 0%, 10%, 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, 100 Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed N/A

Small amount of dust visible in sample

DI Lot # 191009C

Total Volume of Water After Melting: 350 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	116.6	138.6	22.0	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	116.6	138.6	22.0	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 1 DATE (dd-mmm-yyyy): 2021-01-04 TIME (24:00): 1345

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 533964 E 7154321 N (Zone) 12W

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -24 °C Wind Direction: E Wind Speed (knots): 9

Precipitation: rain / mist / snow (N/A) Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-22

Small amount of white dust visible in sample

Total Volume of Water After Melting: 260 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	123.7	157.1	33.4	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	123.7	157.1	33.4	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust-2A DATE (dd-mmm-yyyy): 2021-01-08 TIME (24:00): 1250

SAMPLED BY: C.C BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 535678 E 7151339 N (Zone) 12W

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -23 °C Wind Direction: W Wind Speed (knots): 7

Precipitation: rain / mist / snow / (N/A) Cloud Cover: 0%, (10%), 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-20

white dust in sample

Total Volume of Water After Melting: 380 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	120.1	162.4	42.3	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	120.1	162.4	42.3	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 3 DATE (dd-mmm-yyyy): 2021-01-03 TIME (24:00): 1510

SAMPLED BY: GCNG TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 535024 E 7151872 N (Zone) 12W

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -29 °C Wind Direction: E Wind Speed (knots): 12

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-22

Slightly cloudy, white dust

Total Volume of Water After Melting: 360 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	116.5	223.8	107.3	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	116.5	223.8	107.3	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust-4 DATE (dd-mmm-yyyy): 2021-01-03 TIME (24:00): 1355

SAMPLED BY: GC NG TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 531397 E 7152127 N (Zone) 12W

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -29 °C Wind Direction: E Wind Speed (knots): 12

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-23

Slightly cloudy, white dust

Total Volume of Water After Melting: 380 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	127.1	147.5	20.4	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	127.1	147.5	20.4	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 5 DATE (dd-mmm-yyyy): 2021-01-08 TIME (24:00): 1005

SAMPLED BY: GC BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 535696 E 7155138 N (Zone) 12W

DESCRIPTION: QA Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -21 °C Wind Direction: W Wind Speed (knots): 9

Precipitation: rain / mist / snow (N/A) Cloud Cover: (0%) 10%, 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-20

Little dust visible

Total Volume of Water After Melting: 340 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	125.2	142.5	17.3	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	125.2	142.5	17.3	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 6 DATE (dd-mmm-yyyy): 2021-01-03 TIME (24:00): 1525

SAMPLED BY: GC NG TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 537502 E 7152934 N (Zone) 12W

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -29 °C Wind Direction: E Wind Speed (knots): 12

Precipitation: rain / mist / snow (N/A) Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-22

Slightly cloudy, white dust

Total Volume of Water After Melting: 190 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	126.8	144.5	17.7	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	126.8	144.5	17.7	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 7 DATE (dd-mmm-yyyy): 2021-01-08 TIME (24:00): 1304

SAMPLED BY: GC BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 536819 E 7150510 N (Zone) 12U

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -23 °C Wind Direction: W Wind Speed (knots): 7

Precipitation: rain / mist / snow / (N/A) Cloud Cover: 0%, (10%), 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-20

White dust + a few larger particles visible.

Total Volume of Water After Melting: 400 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	126.9	153.4	26.5	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	126.9	153.4	26.5	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	**Revision:**	R0
Effective Date:	26-Mar-2012	**By:**	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 8 **DATE (dd-mmm-yyyy):** 2021-01-08 **TIME (24:00):** 1025

SAMPLED BY: AC BP **TYPE OF SAMPLE:** (Dust) **Other**

GPS COORDINATES (UTM): 531401 **E** 7154146 **N (Zone)** 12W

DESCRIPTION: QA Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -21 °C **Wind Direction:** W **Wind Speed (knots):** 9

Precipitation: rain / mist / snow / (N/A) **Cloud Cover:** (0%), 10%, 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) **Dust in area:** Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-20

Snow was up to base of gauge Lower and filled wind shade.

Very little dust visible in sample

Total Volume of Water After Melting: 460 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	125.8	145.3	19.5	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	125.8	145.3	19.5	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 9 DATE (dd-mmm-yyyy): 2021-01-06 TIME (24:00): 1319

SAMPLED BY: GC BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 541204 E 7152154 N (Zone) 12W

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -23 °C Wind Direction: V Wind Speed (knots): 7

Precipitation: rain / mist / snow / (N/A) Cloud Cover: 0%, (10%), 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-20

Sample slightly brown, some dust visible.

Total Volume of Water After Melting : 125 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	114.1	124.4	10.3	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	114.1	124.4	10.3	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 10 DATE (dd-mmm-yyyy): 2021-01-03 TIME (24:00): 1430

SAMPLED BY: GC N/A TYPE OF SAMPLE: (Dust) Other _____

GPS COORDINATES (UTM): 532908 E 7148924 N (Zone) 12U

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -29 °C Wind Direction: E Wind Speed (knots): 12

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, 10%, 25%, 50%, 75%, (100)

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-22

Slightly cloudy with white dust visible, no large particles or debris.

Total Volume of Water After Melting: 390 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	116.5	214.2	97.7	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	116.5	214.2	97.7	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 11 DATE (dd-mmm-yyyy): 2021-01-08 TIME (24:00): 1131

SAMPLED BY: GC BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 531493 E 7150156 N (Zone) 12W

DESCRIPTION: DH Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -23 °C Wind Direction: W Wind Speed (knots): 7

Precipitation: rain / mist / snow / N/A Cloud Cover: 0%, (10%), 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-20

White dust visible in sample.

Total Volume of Water After Melting: 520 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	120.3	182.6	62.3	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	120.3	182.6	62.3	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust 12 DATE (dd-mmm-yyyy): 2021-01-08 TIME (24:00): 1111

SAMPLED BY: GC BP TYPE OF SAMPLE: (Dust) Other _____

GPS COORDINATES (UTM): 529323 E 7151191 N (Zone) 12W

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -23 °C Wind Direction: W Wind Speed (knots): 7

Precipitation: rain / mist / snow / (N/A) Cloud Cover: 0%, (10%), 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-20

Small amount of dust visible in sample.

Total Volume of Water After Melting: 475 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	119.0	158.7	39.7	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	119.0	158.7	39.7	

RioTinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust C1 DATE (dd-mmm-yyyy): 2021-01-08 TIME (24:00): 1215

SAMPLED BY: GC BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 534979 E 7144270 N (Zone) 12W

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -23 °C Wind Direction: W Wind Speed (knots): 7

Precipitation: rain / mist / snow / (N/A) Cloud Cover: 0% (10%) 25% 50% 75% 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%) Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-20

Very little dust in sample

Total Volume of Water After Melting: 360 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	117.4	127.3	9.9	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	117.4	127.3	9.9	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: Dust C2 DATE (dd-mmm-yyyy): 2021-01-08 TIME (24:00): 1100

SAMPLED BY: CC BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): 528714 E 7153276 N (Zone) 12W

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: -23 °C Wind Direction: W Wind Speed (knots): 7

Precipitation: rain / mist / snow / (N/A)

Cloud Cover: 0%, (10%), 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, (100%)

Dust in area: Visible, (Not Visible)

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed 2020-10-20

White dust + some larger particles visible in sample

Total Volume of Water After Melting: 430 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	123.0	149.6	26.6	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	123.0	149.6	26.6	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: EBW DATE (dd-mmm-yyyy): 2020-12-31 TIME (24:00): 1540

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other

GPS COORDINATES (UTM): E N (Zone)

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside)

Air Temp: NA °C Wind Direction: Wind Speed (knots):

Precipitation: rain / mist / snow / N/A Cloud Cover: 0%, 10%, 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, 100 Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed NA

Small amount of dust visible in sample and on filter

Total Volume of Water After Melting: 680 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	119.8	123.7	3.9	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	119.8	123.7	3.9	

Rio Tinto

Dust Gauge Collection Field Sheet

		No:	ENVI-178-0312
Area:	8000	Revision:	R0
Effective Date:	26-Mar-2012	By:	Dianne Dul
Task:	Dust Gauge Collection Field Sheet		
		Page:	1 of 2

GENERAL

LOCATION NAME: LBW DATE (dd-mmm-yyyy): 2021-01-04 TIME (24:00): 1621

SAMPLED BY: BP TYPE OF SAMPLE: (Dust) Other _____

GPS COORDINATES (UTM): NA E _____ N (Zone) _____

DESCRIPTION: Q4 Dust

CLIMATE CONDITIONS (if sampling outside) NA

Air Temp: _____ °C Wind Direction: _____ Wind Speed (knots): _____

Precipitation: rain / mist / snow / N/A Cloud Cover: 0%, 10%, 25%, 50%, 75%, 100

Snow Cover: 0%, 10%, 25%, 50%, 75%, 100% Dust in area: Visible, Not Visible

COLLECTION COMMENTS: (i.e. damage to station, bugs - twigs in sample, hole in vestibule, etc.)

Date Sample Collected was Deployed NA

No visible dust in sample

Total Volume of Water After Melting: 300 (mL)

Filter #	Weight of Filter	Filter + Residue	Residue Weight	Comments
1	116.4	115.9	-0.5	very small amount of dust visible on filter
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Totals	116.4	115.9	-0.5	

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS1-1 **DATE (yyyy-mmm-dd):** 2020-04-12 **TIME (24:00):** 0912

SAMPLED BY: SS2 MN **TYPE OF SAMPLE:** Dust ☑ Water Quality ☐ **QAQC:** N/A

GPS COORDINATES (UTM): 533915 **E** 7154292 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0 km & Direction _____ On: Land ☑ &/or Lake ☐

CLIMATE CONDITIONS

Air Temp: -22 °C **Wind Direction:** NW **Wind Speed:** 07 kts.

Dust in Area: Visible ☐ Not Visible ☑

Cloud Cover: (0%) / 10% / 25% / 50% / 75% / 100%

Precipitation: Rain / Mist / Snow / (N/A)

Snow Condition: Crystallized ☑ Packed ☑ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	~~62~~ 58	38	49	39	10	Y (N)	
	2	60	38	49	39	10	Y (N)	hard packed w extra hard puck
	3	56	36	48	39	9	Y (N)	crumbly bottom
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

Area:	8000	**No:**	ENVI-177-0312
Effective Date:	26-Mar-2012	**Revision:**	R9
Task:	Snow Sampling Field Sheet	**By:**	D. Dul
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 960 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.0	380.0	265.0	Visible dust on filters
2	114.6	326.4	211.8	" "
3	113.9	117.0	3.1	" "
4				
Totals	343.5	823.4	479.9	

Water Quality Bottles

Total Volume of Melted Snow: _____ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☐	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☐	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☐	☐	☐	
6	Routine	1000 mL plastic	Y	☐	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☐	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS1-2 **DATE (yyyy-mmm-dd):** 2020-04-12 **TIME (24:00):** 0932

SAMPLED BY: SS2 MN **TYPE OF SAMPLE:** Dust ☑ Water Quality ☐ **QAQC:** N/A

GPS COORDINATES (UTM): 533909 **E** 7154382 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0 km & Direction _____ On: Land ☑ &/or Lake ☐

CLIMATE CONDITIONS

Air Temp: -22 °C **Wind Direction:** NW **Wind Speed:** 07 kts.

Dust in Area: Visible ☐ Not Visible ☑ **Cloud Cover:** 0% / 10% / 25% / 50% / 75% / 100%

Precipitation: Rain / Mist / Snow / N/A **Snow Condition:** Crystallized ☑ Packed ☑ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	39	29	48	39	9	Y (N)	hard puck @ top, crystal bottom
	2	38	30	48	39	9	Y (N)	"
	3	25	23	46	39	7	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 800 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.1	246.0	130.9	Triple bagged, leaked into 2nd bag. Visible dust on filter. Veg. removed.
2	114.4	115.5	1.1	" "
3				
4				
Totals	~~129.5~~	361.5	132.0	

Water Quality Bottles

Total Volume of Melted Snow: _____ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☐	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☐	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☐	☐	☐	
6	Routine	1000 mL plastic	Y	☐	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☐	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS1-3 **DATE (yyyy-mmm-dd):** 2020-04-12 **TIME (24:00):** 0943

SAMPLED BY: SS2 MN **TYPE OF SAMPLE:** Dust ☑ Water Quality ☐ **QAQC:** N/A

GPS COORDINATES (UTM): 533967 **E** 7154517 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0 km & Direction _____ On: Land ☑ &/or Lake ☐

CLIMATE CONDITIONS

Air Temp: -22 °C **Wind Direction:** NW **Wind Speed:** 07 kts.

Dust in Area: Visible ☐ Not Visible ☑ **Cloud Cover:** (0%) / 10% / 25% / 50% / 75% / 100%

Precipitation: Rain / Mist / Snow / (N/A) **Snow Condition:** Crystallized ☑ Packed ☑ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	28	20	45	39	6	Y (N)	hard top layer
	2	27	20	45	39	6	Y (N)	"
	3	31	22	45	39	6	Y (N)	"
	4	40	22	46	39	7	Y (N)	"
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3
		Page 3 for Revision Tracking Only not for Print	

Dust Sample Filters

Total Volume of Melted Snow: 830 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.9	157.6	41.7	Triple bagged. Leaked into 2nd bag Visible dust, 1 piece grass on filter
2				
3				
4				
Totals	115.9	157.6	41.7	

Water Quality Bottles

Total Volume of Melted Snow: _____ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☐	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☐	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☐	☐	☐	
6	Routine	1000 mL plastic	Y	☐	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☐	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS1-4-4 **DATE (yyyy-mmm-dd):** 2020-04-12 **TIME (24:00):** 1603

SAMPLED BY: SS2 MW **TYPE OF SAMPLE:** Dust ☑ **Water Quality** ☑ **QAQC:** DUP

GPS COORDINATES (UTM): 534483 **E** 7155096 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0.77 km & Direction N On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -21 °C **Wind Direction:** NW **Wind Speed:** 10 X kts.

Dust in Area: Visible ☐ Not Visible ☑

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: (0%) / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☑ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	35	35	50	39	11	Y (N)	Layers of hard packed pucks
	2	35	35	51	39	12	Y (N)	" "
	3	36	36	52	39	13	Y (N)	"
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	36	36	50	39	11	Y N	Weighed hard puck
	2	36	36	51	39	12	Y (N)	
	3	37	37	52	39	13	Y (N)	
	4	37	37	52	39	13	Y (N)	
	5	38	38	52	39	13	Y (N)	
	6	38	38	51	39	12	Y (N)	
	7	37	37	51	39	12	Y (N)	
	8	37	37	51	39	12	Y (N)	Reweigh
	9	36	36	50	39	11	Y (N)	
	10					11	Y (N)	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3
		Page 3 for Revision Tracking Only not for Print	

Dust Sample Filters

Total Volume of Melted Snow: 1130 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.4	140.0	24.6	
2				
3				
4				
Totals	115.4	140.0	24.6	

Water Quality Bottles

Total Volume of Melted Snow: 3505 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * DVP1	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb~~/pH	500 ~~1000~~ mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

Bagged 4x, leaked through 3rd (WQ)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS1-4-5 **DATE (yyyy-mmm-dd):** 2020-04-12 **TIME (24:00):** 1027

SAMPLED BY: SS2 MN **TYPE OF SAMPLE:** Dust ☐ Water Quality ☑ **QAQC:** DUP

GPS COORDINATES (UTM): 534486 **E** 7155094 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0.77 km & Direction N On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -17 / -21 °C **Wind Direction:** NW **Wind Speed:** 10 kts.

Dust in Area: Visible ☐ Not Visible ☑

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: (0%) / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☑ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	39	39	52	39	13	Y (N)	Weighed, hard packed with hand packs
	2	40	40	54	39	15	Y (N)	
	3	39	39	53	39	14	Y (N)	
	4	39	36	52	39	13	Y (N)	
	5	40	40	52	39	13	Y (N)	Weighed
	6	40	40	53	39	14	Y (N)	
	7	40	36	51	39	12	Y (N)	
	8	40	40	53	39	14	Y (N)	
	9					108	Y (N)	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** **Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$** **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow:_____ (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1				
2				
3				
4				
Totals				

Water Quality Bottles

Total Volume of Melted Snow: 3340 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * DUP2	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ triple bagged leaked out of 2nd bag

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	Revision:	R9
Effective Date:	26-Mar-2012	By:	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS1-5 DATE (yyyy-mmm-dd): 2020-04-12 TIME (24:00): 1058

SAMPLED BY: SS2 MM TYPE OF SAMPLE: Dust ☑ Water Quality ☑ QAQC: N/A

GPS COORDINATES (UTM): 535098 E 7156275 N (zone) 12

DESCRIPTION: Distance to Diavik 2.21 km & Direction N On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -14 (-20) °C Wind Direction: NW Wind Speed: 6 kts.

Dust in Area: Visible ☐ Not Visible ☑ Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Precipitation: Rain / Mist / Snow / N/A Snow Condition: Crystallized ☑ Packed ☑ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	47	47	52	39	13	Y (N)	Weighed, easy to break by snowcore
	2	46	45	52	39	13	Y (N)	
	3	47	45	53	39	14	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	45	45	53	39	14	Y (N)	
	2	45	45	53	39	14	Y (N)	
	3	45	45	52	39	13	Y (N)	
	4	45	43	52	39	13	Y (N)	
	5	45	42	52	39	13	Y (N)	Weighed
	6	47	45	53	39	14	Y (N)	
	7	46	45	52	39	13	Y (N)	
	8	45	44	52	39	13	Y (N)	
	9					10 7	Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** $\text{Water Content}_{SWE}$ = $\text{Wt. of Tube \& Core}_{SWE}$ – $\text{Wt. of Empty Tube}_{SWE}$ **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1320 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	~~111.9~~ 116.2	119.4	3.2	Some water leaked out when bags were double bagged. Visible dust on filter
2				
3				
4				
Totals	116.2	119.4	3.2	

Water Quality Bottles

Total Volume of Melted Snow: ~~3480~~ 3450 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * (GW)	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	~~TSS/Turb/pH~~	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

Quadruple bagged leaked into 3rd (WQ)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS2-1 **DATE (yyyy-mmm-dd):** 2012-01-12 **TIME (24:00):** 1330

SAMPLED BY: SS2 MN **TYPE OF SAMPLE:** Dust ☑ Water Quality ☑ **QAQC:** N/A

GPS COORDINATES (UTM): 537553 **E** 7153474 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0.15 km & Direction NE On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -19 °C **Wind Direction:** W **Wind Speed:** 5 kts.

Dust in Area: Visible ☐ Not Visible ☑

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: (0%) / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☑ Packed ☐ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	30	27	45	39.0	6	Y (N)	Weighed
	2	30	28	46	39.0	7	Y (N)	
	3	30	29	46	39.0	7	Y (N)	
	4	29	29	45	39.0	6	Y (N)	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	29	28	45	39.0	6	Y (N)	
	2	29	29	45	39.0	6	Y (N)	
	3	29	29	45	39.0	6	Y (N)	
	4	29	28	45	39.0	6	Y (N)	Weighed
	5	27	27	45	39.0	6	Y (N)	
	6	27	27	45	39.0	6	Y (N)	
	7	28	27	45	39.0	6	Y (N)	
	8	29	29	46	39.0	7	Y (N)	
	9	28	28	45	39.0	6	Y (N)	
	10	28	27	45	39.0	6	Y (N)	
	11	29	29	45	39.0	6	Y (N)	
	12	30	29	45	39.0	6	Y (N)	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

12
14
26

13
16
78
7
85

30 29 45 39.0 6 (N)
29 28 45 39.0 6 (N)
29 28 45 39.0 6 (N) Weighed
29 27 45 39.0 6 (N)
29 29 45 39.0 6 (N)

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3
		Page 3 for Revision Tracking Only not for Print	

Dust Sample Filters

Total Volume of Melted Snow: 890 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	114.9	137.7	22.8	1st bag leaked into 2nd bag Visible dust on filter
2	113.2	114.1	0.9	
3				
4				
Totals	228.1	251.8	23.7	

Water Quality Bottles

Total Volume of Melted Snow: 3435 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
				GW			
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ- quadruple bagged, leaked out of 3rd bag

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3
		Page 3 for Revision Tracking Only not for Print	

GENERAL

LOCATION NAME: 552-2 **DATE (yyyy-mmm-dd):** 2020-04-12 **TIME (24:00):** 1300

SAMPLED BY: 552 MN **TYPE OF SAMPLE:** Dust ☑ Water Quality ☑ **QAQC:** N/A

GPS COORDINATES (UTM): 537760 **E** 7153435 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0.13 km & Direction ~~NE~~ NE On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -19 °C **Wind Direction:** W **Wind Speed:** 5 kts.

Dust in Area: Visible ☐ Not Visible ☑

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: (0%) / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☑ Packed ☐ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	31	31	47	39	8	Y (N)	Weighed, moved due to proximity to ice road
	2	31	31	47	39	8	Y (N)	
	3	34	34	48	39	9	Y (N)	
	4	34	33	48	39	9	Y (N)	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	34	33	47	39	8	Y (N)	
	2	34	34	47	39	8	Y (N)	16
	3	34	34	47	39	8	Y (N)	
	4	33	33	47	39	8	Y (N)	16
	5	31	31	46	39	7	Y (N)	
	6	33	32	47	39	8	Y (N)	
	7	31	31	47	39	8	Y (N)	Weighed
	8	32	30	46	39	7	Y (N)	62
	9	31	31	46	39	7	Y (N)	
	10	31	31	47	39	8	Y (N)	
	11	30	30	46	39	7	Y (N)	
	12	25	25	45	39	6	Y (N)	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

25 27 25 27 45 47 39 39 6 8 (N)

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

1 48 14 62 — 1 69 8 77 7 84 — 1 14 31

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1120 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	114.3	128.3	14.0	Visible dust on filter
2				
3				
4				
Totals	114.3	128.3	14.0	

Water Quality Bottles

Total Volume of Melted Snow: 3425 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * (GW)	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	~~1000~~ 600 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

Triple bagged, leaked into 3rd bag (WQ)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: 552-3-4 **DATE (yyyy-mmm-dd):** 2020-04-12 **TIME (24:00):** 1152

SAMPLED BY: 552 MN **TYPE OF SAMPLE:** Dust ☑ Water Quality ☑ **QAQC:** DUP1

GPS COORDINATES (UTM): 538485 **E** 7153933 **N (zone)** 12

DESCRIPTION: Distance to Diavik 1.20 km & Direction NE On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -19 °C **Wind Direction:** W **Wind Speed:** 5 kts.

Dust in Area: Visible ☐ Not Visible ☑

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: (0%) / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☑ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	34	31	48	39	9	Y (N)	Weighed
	2	34	31	48	39	9	Y (N)	
	3	34	31	48	39	9	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	36	35	49	39	10	Y (N)	
	2	36	35	49	39	10	Y (N)	
	3	35	31	48	39	9	Y (N)	
	4	34	34	48	39	9	Y (N)	
	5	34	32	47	39	8	Y (N)	
	6	36	36	50	39	11	Y (N)	Weighed
	7	37	37	52	39	13	Y (N)	
	8	37	37	52	39	13	Y (N)	
	9	37	37	51	39	12	Y (N)	
	10	37	37	52	39	13	Y (N)	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 905 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	113.5	121.7	8.2	Visible dust on filter
2	~~116.3~~	~~116.3~~		
3				
4				
Totals	113.5	121.7	8.2	

Water Quality Bottles

Total Volume of Melted Snow: ~~3740~~ 3610 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * DUP1	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb~~/~~pH~~	500 ~~1000~~ mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3
		Page 3 for Revision Tracking Only not for Print	

GENERAL

LOCATION NAME: SS2-3-5 **DATE (yyyy-mmm-dd):** 2020-04-12 **TIME (24:00):** 1222

SAMPLED BY: SS2 MN **TYPE OF SAMPLE:** Dust ☑ **Water Quality** ☑ **QAQC:** DUP2

GPS COORDINATES (UTM): 538485 **E** 7153930 **N (zone)** 12

DESCRIPTION: Distance to Diavik 1.20 km & Direction NE On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -19 °C **Wind Direction:** W **Wind Speed:** 5 kts.

Dust in Area: Visible ☐ Not Visible ☑

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: (0%) / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☑ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	39	39	53	39	14	Y (N)	Weighed
	2	40	40	51	39	12	Y (N)	
	3	40	40	51	39	12	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	35	35	48	39	9	Y (N)	
	2	39	38	48	39	9	Y (N)	
	3	40	40	50	39	11	Y (N)	
	4	40	40	50	39	11	Y (N)	
	5	42	41	51	39	12	Y (N)	
	6	43	43	52	39	13	Y (N)	Weighed
	7	44	44	53	39	14	Y (N)	
	8	43	40	51	39	12	Y (N)	
	9	45	44	52	39	13	Y (N)	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3
		Page 3 for Revision Tracking Only not for Print	

Dust Sample Filters

Total Volume of Melted Snow: 1240 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.0	121.1	6.1	Triple bagged. Visible dust on filter
2				
3				
4				
Totals	115.0	121.1	6.1	

Water Quality Bottles

Total Volume of Melted Snow: 3460 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
				DUP2			
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	500 ~~1000~~ mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

Triple bagged, leaked into 3rd bag (WO)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS2-4 **DATE (yyyy-mmm-dd):** 2010-04-11 **TIME (24:00):** 1006

SAMPLED BY: AH GC SS2 **TYPE OF SAMPLE:** Dust ☑ Water Quality ☑ **QAQC:** N/A

GPS COORDINATES (UTM): 539142 **E** 7154686 **N (zone)** 12

DESCRIPTION: Distance to Diavik ~~4~~ 220 km & Direction NE On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: ~~-17~~ -21 °C **Wind Direction:** NW **Wind Speed:** 10 kts.

Dust in Area: Visible ☐ Not Visible ☑

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / 25% / 50% / (75%) / 100%

Snow Condition: Crystallized ☐ Packed ☑ Wet ☐ Dry ☑

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	42	31	49	40	9	Y (N)	weighed - 40 hand packed snow
	2	42	32	51	40	11	Y (N)	
	3	41	29	50	40	10	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	41	40	52	40	12	Y (N)	Dowright - no change
	2	42	30	50	40	10	Y (N)	
	3	40	31	51	40	11	Y (N)	
	4	41	33	51	40	11	Y (N)	
	5	41	31	51	40	11	Y (N)	weigh - 40
	6	41	30	50	40	10	Y (N)	
	7	40	38	51	40	11	Y (N)	
	8	40	38	51	40	11	Y (N)	
	9	40	38	52	40	12	Y (N)	weigh - snow weight
	10	39	38	52	40	12	Y (N)	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Bag + zip: 090

Total Volume of Melted Snow: 990 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	113.4	115.3	1.9	little visable dust
2				
3				
4				
Totals	113.4	115.3	1.9	

Water Quality Bottles

Total Volume of Melted Snow: 2770 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
				GW			
1	Metals Total	60 mL Falcon Tube (x2)	(Y)	☒	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	(Y)	☒	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	(N)	☒	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	(N)	☒	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	(N)	☒	☐	☐	
6	Routine	1000 mL plastic	(Y)	☒	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	(Y)	☒	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

Bags leaked into the second bags (Both AQ and Dust)

Bag 1 - 1.450 Kg

Bag 2 - 1.320 Kg

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS3-4 **DATE (yyyy-mmm-dd):** 2020-04-~~12~~ 13 **TIME (24:00):** 1015

SAMPLED BY: KG SS2 **TYPE OF SAMPLE: Dust** ☒ **Water Quality** ☒ **QAQC:** N/A

GPS COORDINATES (UTM): 536593 **E** 7150996 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0.57 km & Direction SE On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -17 °C **Wind Direction:** W **Wind Speed:** 3 kts.

Dust in Area: Visible ☒ Not Visible ☐

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / 25% / 50% / (75%) / 100%

Snow Condition: Crystallized ☐ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	45	36	50	38	12	Y (N)	
	2	45	40	50	38	12	Y (N)	
	3	45	36	50	38	12	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	47	40	52	38	14	Y (N)	
	2	47	32	50	38	12	Y (N)	
	3	47	31	50	38	12	Y (N)	
	4	47	43	52	38	16	Y (N)	
	5	48	45	55	38	17	Y (N)	54 snow sticking to side
	6	47	46	56	38	18	Y (N)	
	7	47	45	54	38	16	Y (N)	
	8	48	46	55	38	17	Y (N)	
	9					10 6	Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1165-1170 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	113.9	157.9	44.0	Triple bagged no leaks. Visible dust on filter
2	~~113.0~~			
3				
4				
Totals	113.9	157.9	44.0	

Water Quality Bottles

Total Volume of Melted Snow: 3410 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * (GW)	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ - Triple bagged, leaked into 2nd

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: 553-5 **DATE (yyyy-mmm-dd):** 2020-04-~~12~~ 13 **TIME (24:00):** 1200

SAMPLED BY: KG 552 **TYPE OF SAMPLE:** Dust ☒ Water Quality ☒ **QAQC:** N/A

GPS COORDINATES (UTM): 537693 E 7150790 N (zone) 12

DESCRIPTION: Distance to Diavik 1.60 km & Direction SE On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -13 °C **Wind Direction:** W **Wind Speed:** 5 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / Mist / Snow / N/A

Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☒ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	28	~~3~~ 22	45	39	6	Y (N)	site is ~100m from ice road
	2	28	25	46	39	7	Y (N)	19
	3	28	26	46	39	6	Y (N)	26
	4	28	25	46	39	6	Y (N)	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	28	21	46	39	6 7	Y (N)	24
	2	~~28~~	26	46	39	6 7	Y (N)	14
	3	28	21	46	39	6 7	Y (N)	~~35~~
	4	29	21	46	39	6 7	Y (N)	
	5	29	27	47	39	~~8~~ 8	Y (N)	
	6	29	27	47	39	~~8~~ 8	Y (N)	38
	7	29	26	46	39	~~8~~ 7	Y (N)	44
	8	29	~~22~~ 23	46	39	7	Y (N)	28
	9	29	22	46	39	7	Y (N)	16
	10	28	22	46	39	7	Y (N)	44
	11	~~28~~ 30	24	46	39	7	Y (N)	35
	12	~~28~~ 30	23	47	39	8	Y (N)	79
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								18 87
		30	29	47	39	8	(N)	95
		29	27	47	39	8		103

** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 895 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	116.0	130.7	14.7	Visible dust on filter. Double bagged, leaked through 1st bag
2				
3				
4				
Totals	116.0	130.7	14.7	

Water Quality Bottles

Total Volume of Melted Snow: 3210 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * (GW)	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	500 ~~1000~~ mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ - Triple bagged, leaked into 2nd

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: ~~SS3-6-1~~ SS3-6-1 **DATE (yyyy-mmm-dd):** 2020-04-20 (13) **TIME (24:00):** 0918

SAMPLED BY: KG SS2 **TYPE OF SAMPLE:** Dust [X] Water Quality [X] **QAQC:** ~~DUP~~ DUP1

GPS COORDINATES (UTM): ~~0536300~~ 0536302 **E** 7151563 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0 km & Direction NA On: Land [ ] &/or Lake [✓]

CLIMATE CONDITIONS

Air Temp: -18 °C **Wind Direction:** W **Wind Speed:** 6 kts.

Dust in Area: Visible [X] Not Visible [ ]

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / 25% / 50% / (75%) / 100%

Snow Condition: Crystallized [ ] Packed [X] Wet [ ] Dry [ ]

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	~~33~~	~~30~~	~~48~~	~~39.0~~		~~Y N~~	~~last bag broke~~
	2	33	23	45	39.0	6cm	Y (N)	
	3	34	23	45	39.0	6cm	Y (N)	
	4	34	~~33~~ 33	48	39.0	9cm	Y (N)	
		34	31	48	39.0	9cm		
	Dust (Min. of 3 cores – Total Water Content SWE =/> 25)							
Water Quality Cores	1	34	32	48	38	10cm	Y (N)	
	2	34	33	49	38	11cm	Y (N)	
	3	34	32	48	38	10cm	Y (N)	
	4	34	32	48	38	10cm	Y (N)	
	5	34	32	47	38	9cm	Y (N)	
	6	34	31	47	38	9cm	Y (N)	Reweighed
	7	34	31	48	38	10	Y (N)	
	8	33	32	48	38	10	Y (N)	
	9	33	32	47	38	9	Y (N)	
	10	34	33	47	38	9	Y (N)	
	11	35	34	49	38	11	Y (N)	
	12						Y (N)	
	Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)							

1
24
9
33
61
94
11
105

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3
		Page 3 for Revision Tracking Only not for Print	

Dust Sample Filters

Total Volume of Melted Snow: 950 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.1	178.5	63.4	
2	114.0	115.8	1.8	
3				
4				
Totals	229.1	194.3	65.2	

Water Quality Bottles

Total Volume of Melted Snow: 3030 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
				DVP1			
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb~~/pH	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ - Quadruple bagged, leaked into 2nd

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: ~~SS3-6~~ SS3-6-5 **DATE (yyyy-mmm-dd):** April 3 2012 **TIME (24:00):** 0944

SAMPLED BY: KG SS2 **TYPE OF SAMPLE:** Dust ☒ Water Quality ~~☒~~ **QAQC:** DUP WQ

GPS COORDINATES (UTM): 0536302 **E** 7151563 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0 km & Direction N/A On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -17 °C **Wind Direction:** W **Wind Speed:** 3 kts.

Dust in Area: Visible ~~☒~~ Not Visible ☐

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☐ Packed ~~☒~~ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	34	33	48	38	10	Y (N)	general comment
	2	34	33	50	38	12	Y (N)	hard packed top
	3	34	35	48	38	10	Y (N)	layer + crystalized
	4	35	33	49	38	11	Y (N)	bottom layer in cores
	5	35	34	48	38	10	Y (N)	
	6	35	31	48	38	10	Y (N)	63
	7	35	34	48	38	10	Y (N)	73
	8	35	31	48	38	10	Y (N)	83
	9	35	33	48	38	10	Y (N)	93
	10	34	33	~~50~~ 50	~~38~~ 38	12	Y (N)	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: _____ (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1				
2				
3				
4				
Totals				

Water Quality Bottles

Total Volume of Melted Snow: 2850 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☑	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☑	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

3x bagged, labeled into 3rd bag (WQ)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS3-7 **DATE (yyyy-mmm-dd):** 2020-04-~~12~~ 13 **TIME (24:00):** 1044

SAMPLED BY: KG SS2 **TYPE OF SAMPLE:** Dust [X] Water Quality [X] **QAQC:** N/A

GPS COORDINATES (UTM): 536346 **E** 7151364 **N (zone)** 12W

DESCRIPTION: Distance to Diavik 0.19 km & Direction SE On: Land [ ] &/or Lake [V]

CLIMATE CONDITIONS

Air Temp: -14 °C **Wind Direction:** W **Wind Speed:** 4 kts.

Dust in Area: Visible [X] Not Visible [ ]

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / 25% / 50% / (75%) / 100%

Snow Condition: Crystallized [ ] Packed [X] Wet [ ] Dry [ ]

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	44	41	50	38	12	Y (N)	
	2	44	42	51	38	13	Y (N)	
	3	44	42	54	38	16	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	43	42	54	39	15	Y (N)	
	2	43	41	51	39	12	Y (N)	27
	3	44	42	52	39	13	Y N	40
	4	44	42	52	39	13	Y N	53
	5	44	42	54	39	15	Y N	68
	6	44	42	52	39	13	Y N	81
	7	44	42	52	39	13	Y N	94
	8	44	43	52	39	13	Y N	107
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

1
68
13
81
13
94

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1230 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	114.3	211.6	97.3	Visible dust on filter. Triple bagged, leaked into 2nd bag
2	116.0	122.3	6.3	
3				
4				
Totals	230.3	333.9	103.6	

Water Quality Bottles

Total Volume of Melted Snow: 3345 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
				GW			
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ- Triple bagged, leaked into 3rd

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	Revision:	R9
Effective Date:	26-Mar-2012	By:	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS3-8 DATE (yyyy-mmm-dd): 2020-04-13 TIME (24:00): 1121

SAMPLED BY: KG SS2 TYPE OF SAMPLE: Dust ☒ Water Quality ☒ QAQC: N/A

GPS COORDINATES (UTM): 5360635 E 7150873 N (zone) 12W

DESCRIPTION: Distance to Diavik 0.85 km & Direction SE On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -14 °C Wind Direction: W Wind Speed: 4 kts.

Dust in Area: Visible ☒ Not Visible ☐ Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Precipitation: Rain / Mist / Snow / N/A Snow Condition: Crystallized ☒ Packed ☒ Wet ☐ Dry ☐

(bottom) hard packed + crystal layer (bottom)

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	34	32	50	39	11	Y (N)	
	2	33	32	48	39	9	Y (N)	
	3	33	31	48	39	9	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	~~33~~ 33	32	48	39	~~9~~ 9	Y (N)	
	2	~~34~~ 34	~~33~~ 33	50	39	11	Y (N)	
	3	35	33	50	39	11	Y (N)	32
	4	32	30	50	39	11	Y (N)	~~13~~ 9
	5	32	~~30~~ 29	48	39	9	Y N	52
	6	34	30	47	39	8	Y N	60
	7	~~34~~ 30	30	48	39	9	Y N	69
	8	35	30	46	39	7	Y N	~~7~~ 6
	9	37	33	50	39	11	Y N	87
	10	32	32	48	39	9	Y N	~~9~~ 9 6
	11	37	35	47	39	8	Y N	109
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 870 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	114.9	169.7	54.8	Visible dust on filter. Triple bagged Leaked into 2nd bag
2	115.9	116.9	1.0	
3				
4				
Totals	~~114.9~~230.8	~~169.7~~286	55.8	

Water Quality Bottles

Total Volume of Melted Snow: 3295 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
				GW			
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ - Triple bagged, leaked into 2nd
- visible dust in melted snow

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS4-1 **DATE (yyyy-mmm-dd):** 2020-04-14 **TIME (24:00):** 1346

SAMPLED BY: KG MN **TYPE OF SAMPLE:** Dust ☒ Water Quality ☐ **QAQC:** N/A

GPS COORDINATES (UTM): 0531485 **E** 7152217 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0 km & Direction W On: Land ☒ &/or Lake ☐

CLIMATE CONDITIONS

Air Temp: -14 °C **Wind Direction:** N **Wind Speed:** 0 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / 25% / (50%) / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	47	25	47	39	12	Y (N)	
	2	43	27	47	39	12	Y (N)	
	3	39	26	47	39	12	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

Rio Tinto

Snow Sampling Field Sheet

Area:	8000	No:	ENVI-177-0312
Effective Date:	26-Mar-2012	Revision:	R9
Task:	Snow Sampling Field Sheet	By:	D. Dul
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 775 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	119.2	175.8	56.6	Triple bagged, didn't leak, Dust on filter (visible)
2				
3				
4				
Totals	119.2	175.8	56.6	

Water Quality Bottles

Total Volume of Melted Snow: _____ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☐	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☐	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☐	☐	☐	
6	Routine	1000 mL plastic	Y	☐	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☐	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS84-2 **DATE (yyyy-mmm-dd):** 2020-04-14 **TIME (24:00):** 1330

SAMPLED BY: KG MN **TYPE OF SAMPLE:** Dust ☒ Water Quality ☐ **QAQC:** N/A

GPS COORDINATES (UTM): 531353 **E** 7152263 **N (zone)** 12W

DESCRIPTION: Distance to Diavik 0 km & Direction NA On: Land ☒ &/or Lake ☐

CLIMATE CONDITIONS

Air Temp: -12 °C **Wind Direction:** N **Wind Speed:** 0 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / Mist / Snow / N/A

Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☒ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	64	59	58	39	19	Y (N)	
	2	62	58	58	39	19	Y (N)	
	3	61	58	58	39	19	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1780 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	118.2	190.2	72.0	3x baggies, leaked into 2nd bag Small Veg matter onto filter, Significant dirt on first filter
2	118.5	123.0	4.5	
3				
4				
Totals	236.7	313.2	76.5	

Water Quality Bottles

Total Volume of Melted Snow: _____ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☐	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☐	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☐	☐	☐	
6	Routine	1000 mL plastic	Y	☐	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☐	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS4-3 **DATE (yyyy-mmm-dd):** 2020-04-14 **TIME (24:00):** 1300

SAMPLED BY: KG MN **TYPE OF SAMPLE:** Dust ☒ Water Quality ☐ **QAQC:** NA

GPS COORDINATES (UTM): 531328 **E** 7152476 **N (zone)** 12W

DESCRIPTION: Distance to Diavik 0 km & Direction NA On: Land ☒ &/or Lake ☐

CLIMATE CONDITIONS

Air Temp: -12 °C **Wind Direction:** N **Wind Speed:** 0 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / Mist / Snow / N/A

Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☒ Wet ☐ Dry ☐ very

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	85	74	67	39	27	Y (N)	
	2	83	73	67	39	27	Y (N)	
	3	86	78	68	39	28	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 2580 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	119.2	209.1	89.9	Triple bagged, taked into 3rd bag
2	118.1	120.6	2.5	
3	117.5	153.1	35.6	
4				
Totals	~~237.3~~	~~329.7~~	128.0	

Water Quality Bottles

Total Volume of Melted Snow: _____ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☐	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☐	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☐	☐	☐	
6	Routine	1000 mL plastic	Y	☐	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☐	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS4-4 **DATE (yyyy-mmm-dd):** 2020-04-14 **TIME (24:00):** 1225

SAMPLED BY: MN KG **TYPE OF SAMPLE:** Dust ☒ Water Quality ☒ **QAQC:** N

GPS COORDINATES (UTM): 531140 E 7153172 N (zone) 12

DESCRIPTION: Distance to Diavik 1.05 km & Direction W On: Land ☐ &/or Lake ☒

CLIMATE CONDITIONS

Air Temp: -15 °C **Wind Direction:** N **Wind Speed:** 0 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / 25% / (50%) / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	66	61	58	39	19	Y (N)	Weighed
	2	66	64	58	39	19	Y (N)	
	3	66	64	59	39	20	Y (N)	
	4	~~0~~					Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	68	65	59	39	20	Y (N)	Reweighed 39 39
	2	70	68	58	39	19	Y (N)	
	3	68	62	58	39	19	Y (N)	48 19 ~~58~~ 58
	4	68	63	59	39	20	Y N	78
	5	67	61	58	39	19	Y N	19
	6	68	65	59	39	20	Y N	97
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** **Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$** **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1865 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	118.3	177.8	59.5	Triple bagged, leaked into 2nd Visible dust
2				
3				
4				
Totals	118.3	177.8	59.5	

Water Quality Bottles

Total Volume of Melted Snow: 3650 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☑	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☑	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

Quadruple bagged, leaked into 4th (WQ)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS4-S **DATE (yyyy-mmm-dd):** 2020-04-14 **TIME (24:00):** 1145

SAMPLED BY: MN K> **TYPE OF SAMPLE:** Dust [X] **Water Quality** [X] **QAQC:** DUP1 Dust

GPS COORDINATES (UTM): 531410 **E** 7154120 **N (zone)** 12

DESCRIPTION: Distance to Diavik 1.46 km & Direction NW On: Land [ ] &/or Lake [X]

CLIMATE CONDITIONS

Air Temp: -15 °C **Wind Direction:** N **Wind Speed:** 0 kts.

Dust in Area: Visible [ ] Not Visible [X]

Cloud Cover: 0% / 10% / 25% / (50%) / 75% / 100%

Precipitation: Rain / Mist / Snow / (N/A)

Snow Condition: Crystallized [ ] Packed [X] Wet [ ] Dry [ ]

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	38	36	50	39	11	Y (N)	
	2	38	37	50	39	11	Y (N)	
	3	38	37	50	39	11	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	40	40	52	39	13	Y (N)	Re weighed
	2	40	39	51	39	12	Y (N)	
	3	39	38	51	39	12	Y (N)	37
	4	38	37	50	39	11	Y (N)	48
	5	40	40	51	39	12	Y (N)	12 60
	6	40	39	51	39	12	Y (N)	72
	7	39	39	51	39	12	Y (N)	84 96
	8	39	38	51	39	12	Y (N)	12
	9	40	39	51	39	12	Y (N)	108
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet			
		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3
		Page 3 for Revision Tracking Only not for Print	

Dust Sample Filters

Total Volume of Melted Snow: 1135 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	119.1	140.9	21.8	Triple bagged, leaked into 2nd bag
2				
3				
4				
Totals	119.1	140.9	21.8	

Water Quality Bottles

Total Volume of Melted Snow: 3290 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
				GW			
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ - triple bagged, leaked into 2nd

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS4-S-5 **DATE (yyyy-mmm-dd):** 2020-04-14 **TIME (24:00):** 12:00

SAMPLED BY: KG MN **TYPE OF SAMPLE: Dust** ☒ **Water Quality** ☐ **QAQC:** DUP2-Dust

GPS COORDINATES (UTM): 531410 **E** 7154120 **N (zone)** _____

DESCRIPTION: Distance to Diavik 1.46 km & Direction NW On: Land ☐ &/or Lake ☒

CLIMATE CONDITIONS

Air Temp: −15 °C **Wind Direction:** N **Wind Speed:** 6 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / (Mist) / Snow / N/A

Cloud Cover: 0% / 10% / 25% / (50%) / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	38	38	51	39	12	Y (N)	Re-weighed
	2	38	38	51	39	12	Y (N)	
	3	38	38	51	39	12	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** **Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$** **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1020 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	119.1	142.8	23.7	
2				
3				
4				
Totals	119.1	142.8	23.7	

Water Quality Bottles

Total Volume of Melted Snow: _____ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments **DI Batch # for QAQC,** Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☐	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☐	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☐	☐	☐	
6	Routine	1000 mL plastic	Y	☐	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☐	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

Dust - Double bag, leaked into 2nd

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS51 **DATE (yyyy-mmm-dd):** 2020-04-13 **TIME (24:00):** 1700

SAMPLED BY: RG SS2 **TYPE OF SAMPLE:** Dust [X] Water Quality [ ] **QAQC:** N/A

GPS COORDINATES (UTM): 533150 **E** 7148927 **N (zone)** 12W

DESCRIPTION: Distance to Diavik 0 km & Direction N/A On: Land [X] &/or Lake [ ]

CLIMATE CONDITIONS

Air Temp: -10 °C **Wind Direction:** W **Wind Speed:** 3 kts.

Dust in Area: Visible [X] Not Visible [ ]

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / (25%) / 50% / 75% / 100%

Snow Condition: Crystallized [X] Packed [ ] Wet [X] Dry [ ]

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	30	~~28~~ 24	46	39	7	(Y) N	
	2	~~35~~ 35	~~24~~ 27	47	39	8	(Y) N	
	3	38	25	45	39	6	(Y) N	21
	4	37	30	45	39	6	(Y) N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** **Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$** **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3
		Page 3 for Revision Tracking Only not for Print	

Dust Sample Filters

Total Volume of Melted Snow: 800 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	117.0	338.5	221.5	Double bagged, didn't leak visible dust on filter
2	114.3	331.7	217.4	
3	114.7	586.5	471.8	
4	118.4	133.1	14.7	
Totals	464.4	1389.8	925.4	

Water Quality Bottles

Total Volume of Melted Snow: _____ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☐	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☐	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☐	☐	☐	
6	Routine	1000 mL plastic	Y	☐	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☐	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS5-2 **DATE (yyyy-mmm-dd):** 2020-04-13 **TIME (24:00):** 1640

SAMPLED BY: KG SS2 **TYPE OF SAMPLE:** Dust [X] Water Quality [ ] **QAQC:** N/A

GPS COORDINATES (UTM): 05 33149 **E** 7148871 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0 km & Direction N/A On: Land [X] &/or Lake [ ]

CLIMATE CONDITIONS

Air Temp: -10 °C **Wind Direction:** W **Wind Speed:** 3 kts.

Dust in Area: Visible [X] Not Visible [ ]

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / (25%) / 50% / 75% / 100%

Snow Condition: Crystallized [X] Packed [ ] Wet [ ] Dry [ ]

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	25	24	45	39	6	Y (N)	13
	2	25	24	46	39	7	Y (N)	7
	3	25	23	46	39	7	Y N	20
	4	24	23	46	39	7	Y (N)	27
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** $\text{Water Content}_{SWE} = \text{Wt. of Tube \& Core}_{SWE} - \text{Wt. of Empty Tube}_{SWE}$ **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: ~~835~~ 865 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.4	375.2	259.8	Double bagged, did not leak Visible dust on filters
2	116.9	291.7	174.8	
3	119.1	125.1	6.0	
4				
Totals	351.4	792.0	340.6	

Water Quality Bottles

Total Volume of Melted Snow: _____ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☐	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☐	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☐	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☐	☐	☐	
6	Routine	1000 mL plastic	Y	☐	☐	☐	
7	TSS/Turb/pH	1000 mL plastic	Y	☐	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SS5-3 **DATE (yyyy-mmm-dd):** 2020-04-13 **TIME (24:00):** 1600

SAMPLED BY: KG SS2 **TYPE OF SAMPLE:** Dust ☒ Water Quality ☒ **QAQC:** N/A

GPS COORDINATES (UTM): 533149 **E** 7148700 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0.18 km & Direction S On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -11 °C **Wind Direction:** W **Wind Speed:** 5 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / 25% / (50%) / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	43	46	50	39	11	Y (N)	
	2	40	39	52	39	13	Y (N)	
	3	43	41	51	39	10	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	43	46	50	39	11	Y (N)	Reweighed
	2	~~42~~ 42					Y N	
	3	45	43	52	39	13	Y (N)	
	4	45	43	50	39	11	Y (N)	34
	5	45	44	53	39	14	Y (N)	48
	6	43	42	51	37	11	Y (N)	Reweighed
	7	45	45	53	39	14	Y (N)	59
	8	45	43	52	39	13	Y (N)	14 / 13
	9	48	46	53	39	14	Y (N)	13 / 86
	10						Y N	14
	11						Y N	100
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** **Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$** **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1105 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	114.0	249.1	135.1	
2	116.3	125.8	9.5	
3	115.4	290.8	175.4	
4				
Totals	345.7	5.7	320.0	

Water Quality Bottles

Total Volume of Melted Snow: 3220 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
				GW			
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	~~1000 mL~~ 500 plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ Quadruple bagged, leaked into 2nd bag

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: ~~2020-04-12~~ SSS-4 **DATE (yyyy-mmm-dd):** 2020-04-~~12~~ 13 **TIME (24:00):** 1529

SAMPLED BY: KG SSR **TYPE OF SAMPLE:** Dust ☒ Water Quality ☒ **QAQC:** NA

GPS COORDINATES (UTM): 533153 **E** 7147948 **N (zone)** 12

DESCRIPTION: Distance to Diavik 0.89 km & Direction S On: Land ☐ &/or Lake ☒

CLIMATE CONDITIONS

Air Temp: -11 °C **Wind Direction:** W **Wind Speed:** 5 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / Mist / Snow / ~~N/A~~

Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized ☐ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	42	41	49	39	10	Y (N)	
	2	43	39	47	39	8	Y (N)	
	3	44	44	50	39	11	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	~~43~~ 43	41	51	39	12	Y (N)	Reweighed
	2	45	38	49	39	10	Y (N)	22
	3	45	42	51	39	12	Y (N)	34
	4	44	43	53	39	14	Y (N)	~~44~~ 48
	5	44	43	51	39	~~14~~ 12	Y (N)	~~12~~ 106
	6	~~45~~ 42	41	50	39	11	Y (N)	Reweighed
	7	44	42	51	39	12	Y (N)	70
	8	45	36	49	39	10	Y (N)	82 ~~92~~
	9	~~45~~ 45	39	49	39	10	Y (N)	102
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1010 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.9	155.2	39.3	Double bagged, Leaked through bag. Visible dust on filter
2	119.0	119.3	0.3	
3				
4				
Totals	234.9	274.5	39.6	

Water Quality Bottles

Total Volume of Melted Snow: 3185 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
				GW			
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ - Quadruple bagged, leaked into 4th

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	Revision:	R9
Effective Date:	26-Mar-2012	By:	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SSS-5 DATE (yyyy-mmm-dd): 2020-04-~~12~~ 13 TIME (24:00): 1447

SAMPLED BY: KG SSD TYPE OF SAMPLE: Dust ☒ Water Quality ☒ QAQC: N/A

GPS COORDINATES (UTM): 533148 E 7146953 N (zone) 12

DESCRIPTION: Distance to Diavik 1.86 km & Direction S On: Land ☐ &/or Lake ☑

CLIMATE CONDITIONS

Air Temp: -11 °C Wind Direction: N Wind Speed: 5 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / Mist / (Snow) / N/A

Cloud Cover: 0% / 10% / 25% / 50% / (75%) / 100%

Snow Condition: Crystallized ☒ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	50	30	50	39.0	11	Y (N)	
	2	50	44	60	39	21	Y (N)	
	3	50	39	~~60~~ 51	39	~~21~~ 12	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	~~50~~ 49	45	51	39	12	Y (N)	32 re weighed
	2	50	47	55	39	16	Y (N)	12 / 14
	3	49	47	55	39	16	Y (N)	17
	4	49	47	56	39	17	Y (N)	61 / 12
	5	49	47	56	39	17	Y N	reweighed
	6	49	47	56	39	17	Y N	78
	7	47	~~46~~ 45	56	39	17	Y N	17 / 45
	8						Y N	11
	9						Y N	11 2
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1200 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	118.5	147.2	28.7	
2				
3				
4				
Totals	118.5	147.2	28.7	

Water Quality Bottles

Total Volume of Melted Snow: 3090 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * GW	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☑	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☑	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/Turb/pH	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ - Quadruple bagged, leaked into 4th bag.

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SSC-1 **DATE (yyyy-mmm-dd):** 2020-04-13 **TIME (24:00):** 1400

SAMPLED BY: KB SS2 **TYPE OF SAMPLE:** Dust [X] Water Quality [X] **QAQC:** N/A

GPS COORDINATES (UTM): 534989 **E** 7144273 **N (zone)** 12W

DESCRIPTION: Distance to Diavik 4.78 km & Direction S On: Land [X] &/or Lake [ ]

CLIMATE CONDITIONS

Air Temp: -11 °C **Wind Direction:** W **Wind Speed:** 5 kts.

Dust in Area: Visible [ ] Not Visible [X]

Precipitation: Rain / Mist / (Snow) / N/A

Cloud Cover: 0% / 10% / 25% / 50% / 75% / (100%)

Snow Condition: Crystallized [ ] Packed [ ] Wet [ ] Dry [X]

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	30	28	41	39	2	Y (N)	
	2	35	32	47	39	8	Y (N)	10
	3	~~29~~ 35	29	46	39	7	Y (N)	17 24
	4	35	28	46	39	7	Y (N)	
		34	27	Dust (Min. of 3 cores – Total Water Content SWE =/> 25)				
Water Quality Cores	1	~~32~~ 35	30	47	39	8	Y (N)	re weighed
	2	35	29	44	39	8	Y (N)	
	3	37	26	46	39	7	Y (N)	
	4	36	26	45	39	6	Y (N)	29
	5	35	26	45	39	6	Y (N)	35 45
	6	38	32	49	39	10	Y (N)	55
	7	~~35~~ ~~40~~ 43	35	49	39	10	Y (N)	66 9
	8	44	35	50	39	11	Y (N)	75
	9	44	35	48	39	9	Y (N)	85
	10	44	35	49	39	10	Y (N)	
	11	44	34	49	39	10	Y (N)	95
	12	47	36	48	39	9	Y (N)	105
				Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)				

** **Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$** **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 1140 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	114.8	121.0	6.2	Visible dust / dirt on filter. Some veg on filter. Triple bagged, leaked into 2nd
2				
3				
4				
Totals	114.8	121.0	6.2	

Water Quality Bottles

Total Volume of Melted Snow: 3225 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * GW	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	500 1000 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ - triple bagged, leaked into 3rd bag

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SSC-2-4 **DATE (yyyy-mmm-dd):** 2020-04-14 **TIME (24:00):** 1645

SAMPLED BY: KG MN **TYPE OF SAMPLE:** Dust ☒ Water Quality ☒ **QAQC:** DUP1

GPS COORDINATES (UTM): 528714 E 7153273 N (zone) 12V

DESCRIPTION: Distance to Diavik 1.71 km & Direction W On: Land ☒ &/or Lake ☐

CLIMATE CONDITIONS

Air Temp: -17 °C **Wind Direction:** N **Wind Speed:** 0 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / (Mist) / Snow / N/A

Cloud Cover: 0% / 10% / 25% / 50% / (75%) / 100%

Snow Condition: Crystallized ☐ Packed ☒ Wet ☐ Dry ☐ very

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	59	50	56	39	17	Y (N)	hard packed top - crystalized bottom
	2	~~45~~ 39	34	51	~~49~~ 39	12	Y (N)	
	3	44	41	55	39	16	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	28	28	46	39	7	Y (N)	1
	2	27	26	46	39	7	Y (N)	14 8
	3	38	33	47	39	8	Y (N)	1 28
	4	38	35	47	39	8	Y (N)	1 8 36
	5	35	32	48	39	9	Y (N)	1 9 45
	6	36	35	48	39	9	Y (N)	Reweighed 54
	7	33	30	46	39	6	Y (N)	6 60
	8	33	30	47	39	8	Y (N)	73 8
	9	33	25	45	39	5	Y (N)	81
	10	39	31	47	39	8	Y (N)	87
	11	32	~~26~~ 26	45	39	6	Y (N)	8 95
	12	33	25	47	39	8	Y (N)	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								161
		36	27	45	39	6	(N)	

** **Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$** **

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 15155 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	118.4	140.1	21.7	3x bagged, no leakage, visible dust on filter, some veg on filter
2				
3				
4				
Totals	118.4	140.1	21.7	

Water Quality Bottles

Total Volume of Melted Snow: 3180 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * (GW)	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	~~1000~~ 500 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb/pH~~	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

~~DUST - Triple~~
WQ - Triple bagged, some veg in sample

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SSC-2-5 **DATE (yyyy-mmm-dd):** 2020-04-14 **TIME (24:00):** 1050

SAMPLED BY: KG MN **TYPE OF SAMPLE:** Dust [X] Water Quality [ ] **QAQC:** X DUP 2

GPS COORDINATES (UTM): 528714 **E** 7153273 **N (zone)** _____

DESCRIPTION: Distance to Diavik 1.71 km & Direction W On: Land [X] &/or Lake [ ]

CLIMATE CONDITIONS

Air Temp: -17 °C **Wind Direction:** N **Wind Speed:** 0 kts.

Dust in Area: Visible [ ] Not Visible [X]

Precipitation: Rain / ~~Mist~~ / Snow / N/A

Cloud Cover: 0% / 10% / 25% / (50%) / 75% / 100%

Snow Condition: Crystallized [ ] Packed [X] Wet [ ] Dry [ ]

very

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	42	37	54	39	15	Y (N)	Re-weighed
	2	32	30	47	39	8	Y (N)	moved 5m away
	3	32	31	47	31	8	Y (N)	
	4						Y N	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

** **Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$** **

RioTinto

Snow Sampling Field Sheet

Area:	8000	**No:**	ENVI-177-0312
Effective Date:	26-Mar-2012	**Revision:**	R9
Task:	Snow Sampling Field Sheet	**By:**	D. Dul
		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 975 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	118.3	128.4	10.1	
2				
3				
4				
Totals	118.3	128.4	10.1	

Water Quality Bottles

Total Volume of Melted Snow: 3180 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * DUP	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	~~TSS/Turb/pH~~	~~1000~~ 500 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

DUST - Triple bagged, did not leak, veg strained out
WQ - Triple bagged, some veg in sample

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
Effective Date:	26-Mar-2012	**By:**	D. Dul
Task:	Snow Sampling Field Sheet		
		Page:	1 of 3

Page 3 for Revision Tracking Only not for Print

GENERAL

LOCATION NAME: SSC-3 **DATE (yyyy-mmm-dd):** 2020-04-~~12~~ 13 **TIME (24:00):** 1246

SAMPLED BY: KGSS2 **TYPE OF SAMPLE:** Dust ☒ Water Quality ☒ **QAQC:** N/A

GPS COORDINATES (UTM): 538649 E 7141747 N (zone) 12W

DESCRIPTION: Distance to Diavik 3.58 km & Direction SE On: Land ☒ &/or Lake ☐

CLIMATE CONDITIONS

Air Temp: -13 °C **Wind Direction:** W **Wind Speed:** 5 kts.

Dust in Area: Visible ☐ Not Visible ☒

Precipitation: Rain / Mist / Snow / (N/A)

Cloud Cover: 0% / 10% / 25% / 50% / 75% / (100%)

Snow Condition: Crystallized ☐ Packed ☒ Wet ☐ Dry ☐

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	90	88	67	39	28	Y (N)	!! one + done
	2	103 87	56	57	39	18	Y (N)	
	3	87	82	65	39	25	Y (N)	
	4						Y (N)	
Dust (Min. of 3 cores – Total Water Content SWE =/> 25)								
Water Quality Cores	1	84	79	59	39	20	Y (N)	re weighed
	2	90	84	67	39	28	Y (N)	48
	3	87	83	65	39	26	Y (N)	26 74
	4	94	89	68	39	29	Y (N)	29 103
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
Water Quality (Min. of 3 cores – Total Water Content SWE =/> 100)								

**** Water Content$_{SWE}$ = Wt. of Tube & Core$_{SWE}$ – Wt. of Empty Tube$_{SWE}$ ****

RioTinto

Snow Sampling Field Sheet

		No:	ENVI-177-0312
Area:	8000	**Revision:**	R9
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		Page:	2 of 3

Page 3 for Revision Tracking Only not for Print

Dust Sample Filters

Total Volume of Melted Snow: 2185 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	118.1	162.6	44.5	Triple Bagged, leaked into 2nd
2				
3				
4				
Totals	118.1	162.6	44.5	

Water Quality Bottles

Total Volume of Melted Snow: 3090 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Sample Type * (GW)	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
2	Metals Dissolved	60 mL Falcon Tube (x2)	Y	☑	☐	☐	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	☑	☐	☐	
4	Nutrients	120 mL plastic (pre-preserved)	N	☑	☐	☐	
5	Ammonia	40 mL glass vial (pre-preserved)	N	☑	☐	☐	
6	Routine	1000 mL plastic	Y	☑	☐	☐	
7	TSS/~~Turb~~/pH	1000 mL plastic	Y	☑	☐	☐	

***Sample Type:** GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/REP2, Filter Blank

Additional Information

Sample color, odor if applicable: (equipment issues, safety concerns, weather problems, changes during sampling event, follow-up actions etc.)

WQ - Triple bagged, leaked into 3rd bag