

From: [Tim Havey](#)
To: [Chalup, Hollie A \(DNR\)](#)
Subject: PLP Site Update
Date: Thursday, November 30, 2017 5:57:11 PM
Attachments: [PLP Site Update 30NOV2017.xlsx](#)

Hollie:

Attached is a spreadsheet detailing the work performed at sites listed under the 'Borehole Retention Schedule' in MLUP 6118, plus repair and closure work at additional sites. As previously discussed, some boreholes initially listed on the retention schedule for casing removal were reclassified as active sites and are retained for future use. Additional detail on 2017 field activity will be provided in the 2017 Annual Reclamation Report.

In total:

- 137 sites were closed by removing any above ground casing and reclaiming all disturbed areas. This total includes 19 sites not subject to the 1991 Reclamation Law.
- 21 sites previously identified for closure were reclassified as active and are retained for future use.
- 4 sites were successfully drilled, grouted and reclaimed to cut off minor water upwelling.
- Repairs were attempted at an additional site but were not completely successful. Minor surface upwelling remains. The site will be fully closed and reclaimed in 2018 using a more appropriate rig configuration.

Geologic logs of the requested sites will be provided to DNR under a separate cover and will be classified as confidential under AS 38.05.035. A link will be emailed to you shortly to download a photo log of 2017 field activities.

Please let me know if you need additional information.

Regards,

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Borehole ID	Drill Year	Operator	Initial Borehole Purpose	ADL File No	Northing (UTM NAD27)	Easting (UTM NAD27)	MTRS	2017 Reclamation Activity	2017 Activity Start Date	2017 Activity End Date	Casing Diameter	Casing Material ^[2]	Geologic Well Log	Depth of Sealant or Fill	Material Description	Mixing Ratio	Fill Material Volume	Reclamation Measures Used
0001	1988	Cominco	Exploration	516825	1401091.013	2160211.244	S003S035W21	Casing removed/reclaimed	8/17/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0002	1988	Cominco	Exploration	516825	1401103.549	2160196.474	S003S035W21	Casing removed/reclaimed	8/17/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0003	1989	Cominco	Exploration	516821	1401554.602	2159605.042	S003S035W21	Casing removed/reclaimed	8/17/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0006	1989	Cominco	Exploration	516816	1400632.396	2158122.784	S003S035W21	Casing removed/reclaimed	8/17/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0010	1989	Cominco	Exploration	531424	1395203.821	2153164.522	S003S035W29	Casing removed/reclaimed	8/17/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0011	1989	Cominco	Exploration	516808	1399085.126	2156099.842	S003S035W21	Casing removed/reclaimed	8/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0012	1989	Cominco	Exploration	516809	1399535.265	2156727.696	S003S035W21	Casing removed/reclaimed	8/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0013	1989	Cominco	Exploration	516860	1399492.052	2152718.377	S003S035W28	Casing removed/reclaimed	8/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0014	1989	Cominco	Exploration	516854	1399689.981	2151145.446	S003S035W28	Casing removed/reclaimed	8/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0015	1990	Cominco	Exploration	516810	1402136.01	2156961.358	S003S035W21	Casing removed/reclaimed	8/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0016	1990	Cominco	Exploration	516821	1401591.39	2158797.186	S003S035W21	Casing removed/reclaimed	8/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0025	1990	Cominco	Exploration	516817	1401613.96	2158071.799	S003S035W21	Casing removed/reclaimed	8/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0041	1991	Cominco	Exploration	516817	1401422.798	2158494.996	S003S035W21	Casing removed/reclaimed	8/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0042	1991	Cominco	Exploration	524824	1403852.89	2154325.478	S003S035W27	Casing removed/reclaimed	8/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0085	1991	Cominco	Exploration	516816	1400557.896	2158082.667	S003S035W21	Casing removed/reclaimed	8/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0086	1991	Cominco	Exploration	516809	1400519.275	2156271.507	S003S035W21	Casing removed/reclaimed	8/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0098	1992	Cominco	Exploration	516816	1400444.655	2158158.816	S003S035W21	Casing removed/reclaimed	7/27/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0099	1992	Cominco	Exploration	516817	1400950.38	2157804.529	S003S035W21	Casing removed/reclaimed	7/27/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0100	1992	Cominco	Exploration	516817	1401366.301	2157503.079	S003S035W21	Casing removed/reclaimed	7/28/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0119	1997	Cominco	Exploration	516825	1401655.794	2160673.153	S003S035W21	Casing removed/reclaimed	7/28/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0123	1997	Cominco	Exploration	540401	1405297.511	2160825.023	S003S035W22	Casing removed/reclaimed	8/4/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0124	1997	Cominco	Exploration	516827	1404500.719	2160896.203	S003S035W22	Casing removed/reclaimed	7/28/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
0125	1997	Cominco	Exploration	540401	1405195.318	2160926.32	S003S035W22	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
2005	2002	NDM	Exploration	531411	1393808.512	2148773.332	S003S035W32	Casing removed/reclaimed	7/14/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2010	2002	NDM	Exploration	531416	1395383.253	2149903.78	S003S035W32	Casing removed/reclaimed	7/14/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2031	2002	NDM	Exploration	638824	1361811.988	2118563.637	S004S036W32	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2037	2002	NDM	Exploration	638824	1361811.3	2118524.594	S004S036W32	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2046	2002	NDM	Exploration	638800	1378767.13	2122965.529	S004S036W26	Casing removed/reclaimed	7/17/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2048	2002	NDM	Exploration	638800	1378091.79	2123937.186	S004S036W26	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2052	2002	NDM	Exploration	638794	1361863.814	2123526.903	S004S036W29	Casing removed/reclaimed	7/14/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2053	2002	NDM	Exploration	638824	1361815.237	2118279.968	S004S036W32	Casing removed/reclaimed	7/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2059	2002	NDM	Exploration	524815	1395920.368	2149901.613	S003S035W32	Casing removed/reclaimed	7/16/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2060	2002	NDM	Exploration	524784	1396355.196	2140981.355	S004S035W05	Casing removed/reclaimed	7/13/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
2063	2002	NDM	Exploration	638800	1378426.669	2123863.712	S004S036W26	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3069	2003	NDM	Exploration	524828	1404929.132	2157101.114	S003S035W22	Casing removed/reclaimed	7/16/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3073	2003	NDM	Exploration	531416	1394130.701	2149551.18	S003S035W32	Casing removed/reclaimed	7/14/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3076	2003	NDM	Exploration	524828	1405229.34	2157028.205	S003S035W22	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3078	2003	NDM	Exploration	516823	1404304.922	2159234.376	S003S035W22	Casing removed/reclaimed	7/21/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3079	2003	NDM	Exploration	516823	1403813.216	2159193.21	S003S035W22	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3080	2003	NDM	Exploration	516819	1404542.727	2157414.597	S003S035W22	Casing removed/reclaimed	7/24/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3081	2003	NDM	Exploration	516822	1403249.525	2158947.572	S003S035W21	Casing removed/reclaimed	7/21/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3082	2003	NDM	Exploration	516810	1401029.13	2156980.429	S003S035W21	Casing removed/reclaimed	7/25/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3083	2003	NDM	Exploration	516822	1403254.144	2158517.598	S003S035W21	Casing removed/reclaimed	7/21/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3084	2003	NDM	Exploration	516821	1401747.072	2158634.707	S003S035W21	Casing removed/reclaimed	7/24/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3085	2003	NDM	Exploration	516821	1401492.6	2157734.096	S003S035W21	Casing removed/reclaimed	7/23/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3086	2003	NDM	Exploration	516810	1401407.351	2156806.788	S003S035W21	Casing removed/reclaimed	8/2/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3088	2003	NDM	Exploration	638824	1362351.489	2119324.342	S004S036W32	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3089	2003	NDM	Exploration	516817	1401777.616	2157479.81	S003S035W21	Casing removed/reclaimed	7/23/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3090	2003	NDM	Exploration	638824	1362631.619	2119096.604	S004S036W32	Casing removed/reclaimed	7/19/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3092	2003	NDM	Exploration	516821	1401578.884	2158553.746	S003S035W21	Casing removed/reclaimed	7/23/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3093	2003	NDM	Exploration	516817	1401966.625	2158208.077	S003S035W21	Casing removed/reclaimed	7/22/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3095	2003	NDM	Exploration	516817	1401005.236	2157501.326	S003S035W21	Casing removed/reclaimed	7/25/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3101	2003	NDM	Exploration	516809	1400740.478	2156386.32	S003S035W21	Casing removed/reclaimed	7/25/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3103	2003	NDM	Exploration	516825	1400972.645	2160610.747	S003S035W21	Casing removed/reclaimed	7/27/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3105	2003	NDM	Exploration	516816	1399566.384	2157601.926	S003S035W21	Casing removed/reclaimed	8/5/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3110	2003	NDM	Exploration	516812	1403494.373	2156118.128	S003S035W22	Casing removed/reclaimed	8/2/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3112	2003	NDM	Exploration	540399	1404860.942	2157679.861	S003S035W22	Casing removed/reclaimed	7/16/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3113	2003	NDM	Exploration	516874	1402775.152	2155011.205	S003S035W28	Casing removed/reclaimed	8/2/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3115	2003	NDM	Exploration	516818	1402908.843	2157662.57	S003S035W21	Casing removed/reclaimed	7/27/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3117	2003	NDM	Exploration	516816	1400817.353	2157861.146	S003S035W21	Casing removed/reclaimed	7/24/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3118	2003	NDM	Exploration	516810	1401226.62	2156667.654	S003S035W21	Casing removed/reclaimed	7/21/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3120	2003	NDM	Exploration	516819	1400219.514	2157596.694	S003S035W21	Casing removed/reclaimed	7/24/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3121	2003	NDM	Exploration	516819	1404186.975	2157881.002	S003S035W22	Casing removed/reclaimed	7/22/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]

Borehole ID	Drill Year	Operator	Initial Borehole Purpose	ADL File No	Northing (UTM NAD27)	Easting (UTM NAD27)	MTRS	2017 Reclamation Activity	2017 Activity Start Date	2017 Activity End Date	Casing Diameter	Casing Material ^[2]	Geologic Well Log	Depth of Sealant or Fill	Material Description	Mixing Ratio	Fill Material Volume	Reclamation Measures Used
3123	2003	NDM	Exploration	516815	1399256.164	2158151.833	S003S035W21	Casing removed/reclaimed	7/25/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3124	2003	NDM	Exploration	516871	1398698.924	2154877.326	S003S035W28	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3127	2003	NDM	Exploration	516873	1401960.748	2155401.824	S003S035W28	Drilled and grouted; site continues to produce minor water flow. Will complete repair work in 2018 with different rig configuration.	8/6/2017	10/15/2017	[1]	Steel	[3]	[4]	[4]	[4]	[4]	[5]
3128	2003	NDM	Exploration	516811	1402340.576	2156194.003	S003S035W21	Casing removed/reclaimed	8/5/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3131	2003	NDM	Exploration	516873	1401852.352	2155343.151	S003S035W28	Drilled, grouted, and reclaimed.	8/10/2017	10/15/2017	[1]	Steel	[3]	[4]	[4]	[4]	[4]	[5]
3134	2003	NDM	Exploration	516874	1403220.275	2155531.673	S003S035W28	Casing removed/reclaimed	8/2/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
3135	2003	NDM	Exploration	516868	1402710.552	2154458.581	S003S035W28	Casing removed/reclaimed	8/3/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4137	2004	NDM	Exploration	524828	1405315.255	2156796.358	S003S035W22	Casing removed/reclaimed	8/4/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4149	2004	NDM	Exploration	540399	1405306.264	2157298.293	S003S035W22	Casing removed/reclaimed	7/16/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4153	2004	NDM	Exploration	516810	1401549.587	2156529.772	S003S035W21	Casing removed/reclaimed	7/21/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4159	2004	NDM	Exploration	516812	1403874.957	2155879.263	S003S035W22	Casing removed/reclaimed	7/21/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4167	2004	NDM	Exploration	516872	1400794.979	2155872.66	S003S035W28	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
4175	2004	NDM	Exploration	516809	1400609.844	2156867.866	S003S035W21	Casing removed/reclaimed	8/5/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4180	2004	NDM	Exploration	516810	1401244.656	2156545.208	S003S035W21	Casing removed/reclaimed	7/21/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4182	2004	NDM	Exploration	516810	1401065.907	2156837.46	S003S035W21	Casing removed/reclaimed	7/23/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4185	2004	NDM	Exploration	516822	1403397.81	2159273.355	S003S035W21	No casing present. No action taken.					[3]	NA	NA	NA	NA	[5]
4187	2004	NDM	Exploration	516809	1400323.993	2157116.063	S003S035W21	Casing removed/reclaimed	7/21/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4198	2004	NDM	Exploration	516817	1401833.434	2158158.033	S003S035W21	Casing removed/reclaimed	7/24/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4202	2004	NDM	Exploration	516816	1399834.979	2157583.4	S003S035W21	Casing removed/reclaimed	8/5/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4204	2004	NDM	Exploration	516817	1400897.047	2157677.586	S003S035W21	Casing removed/reclaimed	7/25/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4205	2004	NDM	Exploration	516817	1401546.275	2157628.73	S003S035W21	Casing removed/reclaimed	7/23/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4206	2004	NDM	Monitoring/Study	516823	1403820.163	2159207.029	S003S035W22	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4208	2004	NDM	Exploration	516827	1403961.85	2159911.103	S003S035W22	Casing removed/reclaimed	7/21/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4221	2004	NDM	Exploration	516817	1401324.046	2158014.53	S003S035W21	Casing removed/reclaimed	7/24/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4303	2004	NDM	Exploration	524712	1406927.667	2156430.556	S003S035W22	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4305	2004	NDM	Exploration	516812	1404268.206	2157104.763	S003S035W22	Casing removed/reclaimed	7/24/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
5325	2005	NDM	Exploration	542569	1406213.991	2158732.717	S003S035W22	Casing removed/reclaimed	7/17/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
5335	2005	NDM	Exploration	524715	1410492.65	2156928.973	S003S035W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
5336	2005	NDM	Exploration	540426	1410071.524	2158084.822	S003S035W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
5337	2005	NDM	Exploration	524714	1409809.419	2156992.819	S003S035W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
6338	2006	NDM	Exploration	524713	1408119.584	2156129.491	S003S035W22	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
6340	2006	NDM	Exploration	642364	1410570.492	2155405.419	S003S035W26	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
6341	2006	NDM	Exploration	540432	1409468.753	2158949.185	S003S035W23	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
6343	2006	NDM	Exploration	524716	1412089.668	2156922.104	S003S035W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
6345	2006	NDM	Exploration	642364	1410155.566	2155480.34	S003S035W26	Casing removed/reclaimed	7/16/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
6348	2006	NDM	Exploration	524685	1407680.223	2153536.612	S003S035W27	Casing removed/reclaimed	8/3/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
6350	2006	NDM	Exploration	540432	1409518.868	2159695.864	S003S035W23	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
7359	2007	NDM	Exploration	524699	1408077.1	2154525.296	S003S035W27	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
7366	2007	NDM	Exploration	524714	1409104.15	2156993.682	S003S035W23	Casing removed/reclaimed	8/4/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
7367	2007	NDM	Exploration	524714	1408988.912	2156515.875	S003S035W23	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
7372	2007	NDM-PLP	Exploration	524714	1409934.086	2155859.132	S003S035W23	Casing removed/reclaimed	8/5/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
7379	2007	PLP	Exploration	524715	1410292.539	2157027.837	S003S035W23	Casing removed/reclaimed	8/4/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
7381	2007	PLP	Exploration	524714	1409980.081	2156414.62	S003S035W23	Casing removed/reclaimed	8/3/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
7382	2007	PLP	Exploration	540426	1408820.287	2158228.239	S003S035W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
7385	2007	PLP	Exploration	540426	1409000.026	2157618.629	S003S035W23	Casing removed/reclaimed	8/3/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
7386	2007	PLP	Exploration	524684	1407342.562	2153380.446	S003S035W27	Drilled, grouted, and reclaimed.	8/19/2017	10/15/2017	[1]	Steel	[3]	[4]	[4]	[4]	[4]	[5]
8401	2008	PLP	Exploration	524713	1408442.617	2156993.487	S003S035W22	Casing removed/reclaimed	8/3/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
8405	2008	PLP	Exploration	540428	1411801.378	2158189.896	S003S035W23	Casing removed/reclaimed	7/16/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
8407	2008	PLP	Exploration	524669	1407747.534	2152653.394	S003S035W27	Casing removed/reclaimed	8/1/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
8412	2008	PLP	Exploration	642364	1408854.982	2153947.096	S003S035W26	Casing removed/reclaimed	8/3/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
8413	2008	PLP	Exploration	540426	1409694.736	2157600.01	S003S035W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
8415	2008	PLP	Exploration	642364	1409617.796	2154768.568	S003S035W26	Casing removed/reclaimed	7/16/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
8421	2008	PLP	Exploration	640428	1412027.822	2158110.988	S003S035W23	Casing removed/reclaimed	7/16/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
8423	2008	PLP	Exploration	524716	1412076.977	2156907.988	S003S035W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
8438	2008	PLP	Monitoring/Study	524714	1409109.084	2156249.709	S003S035W23	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
9445	2009	PLP	Exploration	524820	1404513.48	2151284.33	S003S035W27	Casing removed/reclaimed	8/3/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
9446	2009	PLP	Exploration	516856	1403335.4	2151673.99	S003S035W28	Casing removed/reclaimed	8/2/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
9447	2009	PLP	Exploration	516856	1402316.44	2150868.43	S003S035W28	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	[5]
9448	2009	PLP	Exploration	524818	1403547.41	2149852	S003S035W34	Casing removed/reclaimed	8/3/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
9449	2009	PLP	Exploration	516847	1402594.38	2149002.1	S003S035W33	Casing removed/reclaimed	8/5/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]

Borehole ID	Drill Year	Operator	Initial Borehole Purpose	ADL File No	Northing (UTM NAD27)	Easting (UTM NAD27)	MTRS	2017 Reclamation Activity	2017 Activity Start Date	2017 Activity End Date	Casing Diameter	Casing Material ^[2]	Geologic Well Log	Depth of Sealant or Fill	Material Description	Mixing Ratio	Fill Material Volume	Reclamation Measures Used
9450	2009	PLP	Exploration	524813	1404270.78	2148824.42	S003S035W34	Casing removed/reclaimed	8/1/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
9453	2009	PLP	Exploration	516859	1399326.77	2152127.14	S003S035W28	Casing removed/reclaimed	8/2/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
9459	2009	PLP	Exploration	524806	1397806.6	2147023.19	S003S035W32	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
9462	2009	PLP	Exploration	516843	1400978.57	2147491.05	S003S035W33	Casing removed/reclaimed	8/2/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
9468	2009	PLP	Exploration	516846	1400763.13	2149067.47	S003S035W33	Casing removed/reclaimed	7/14/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
9475	2009	PLP	Monitoring/Study	540442	1406679.89	2161885.08	S003S035W15	Drilled, grouted, and reclaimed.	8/23/2017	10/15/2017	[1]	Steel	[3]	[4]	[4]	[4]	[4]	[5]
9477	2009	PLP	Exploration	540455	1407879.55	2163863.62	S003S035W15	Casing removed/reclaimed	7/13/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
10498	2010	PLP	Exploration	638809	1359674.473	2121037.893	S004S036W30	Casing removed/reclaimed	7/17/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
10518	2010	PLP	Exploration	516961	1400519.794	2141330.814	S004S035W04	Casing removed/reclaimed	8/1/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
11528	2011	PLP	Exploration	642435	1378433.16	2156986.91	S003S036W23	Casing removed/reclaimed	8/7/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
11530	2011	PLP	Exploration	642429	1375408.98	2154767.56	S003S036W27	Casing removed/reclaimed	8/7/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
11531	2011	PLP	Monitoring/Study	516811	1403222.88	2156346.41	S003S035W21	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
11536	2011	PLP	Exploration	524820	1403899.18	2151090.29	S003S035W27	Casing removed/reclaimed	8/6/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
11540	2011	PLP	Exploration	516846	1401250.57	2148772.78	S003S035W33	Casing removed/reclaimed	7/14/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
12547	2012	PLP	Exploration	524826	1404247.845	2155482.208	S003S035W27	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
12555	2012	PLP	Exploration	516810	1401046.81	2156175.467	S003S035W21	Casing removed/reclaimed	8/2/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4271M	2004	NDM	Exploration	516821	1401576.663	2158689.242	S003S035W21	Casing removed/reclaimed	7/27/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4290M	2004	NDM	Exploration	516810	1401391.54	2156805.54	S003S035W21	Casing removed/reclaimed	8/2/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4291M	2004	NDM	Exploration	516821	1401554.215	2158617.602	S003S035W21	Casing removed/reclaimed	7/27/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	[5]
4295M	2004	NDM	Exploration	516816	1400876.201	2158182.681	S003S035W21	Casing removed/reclaimed	7/24/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
7391M	2007	PLP	Exploration	516817	1401090.102	2157593.608	S003S035W21	Casing removed/reclaimed	7/28/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
7396M	2007	PLP	Exploration	516818	1402947.37	2157614.002	S003S035W21	Casing removed/reclaimed	7/27/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
8433M	2008	PLP	Exploration	516874	1402203.615	2155701.446	S003S035W28	Drilled, grouted, and reclaimed.	8/20/2017	10/15/2017	[1]	Steel	[3]	[4]	[4]	[4]	[4]	NA
8441M	2008	PLP	Exploration	524712	1406680.121	2156592.96	S003S035W22	Casing removed/reclaimed	7/15/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
GH06-073	2006	NDM	Monitoring/Study	524595	1406063.079	2146875.399	S003S035W34	Casing removed/reclaimed	7/14/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
GH06-079	2006	NDM	Monitoring/Study	642364	1410562.221	2155392.95	S003S035W26	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
GH10-226	2010	PLP	Monitoring/Study	516969	1403371.721	2142009.434	S004S035W03	Casing removed/reclaimed	7/14/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
MW-04-01D	2004	NDM	Monitoring/Study	638785	1378224.506	2124912.641	S004S036W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
MW-04-01M	2004	NDM	Monitoring/Study	638785	1378236.685	2124906.169	S004S036W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
MW-04-01S	2004	NDM	Monitoring/Study	638785	1378206.184	2124920.496	S004S036W23	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
P-04-04M	2004	NDM	Monitoring/Study	524827	1405026.992	2155079.185	S003S035W27	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
P-06-40M	2006	NDM	Monitoring/Study	540435	1412942.608	2158592.458	S003S035W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
PS08-01	2008	FMM	Exploration	552913	1392683.418	2096479.33	S005S036W24	Casing removed/reclaimed	8/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
PW-04-03	2004	NDM	Monitoring/Study	643921	1398353	2126314	S004S035W21	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
PW-04-04	2004	NDM	Monitoring/Study	638785	1378246.013	2124917.287	S004S036W23	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
PW-05-05	2005	NDM	Monitoring/Study	524755	1405519.421	2131565.578	S004S035W15	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
PW-05-06	2005	NDM	Monitoring/Study	524755	1405497.259	2131571.267	S004S035W15	None/Site retained for future use.			[1]	Steel	[3]	NA	NA	NA	NA	
PW-08-09	2008	PLP	Monitoring/Study	642364	1410042.164	2153613.224	S003S035W26	Casing removed/reclaimed	7/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
Sill 28	1989	Cominco	Exploration	516880	1418301.562	2140707.455	S004S035W01	Casing removed/reclaimed	8/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
Sill 30	1989	Cominco	Exploration	516880	1418468.447	2140739.511	S004S035W01	Casing removed/reclaimed	8/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA
Sill 31	1989	Cominco	Exploration	516880	1418501.207	2140743.288	S004S035W01	Casing removed/reclaimed	8/20/2017	10/15/2017	[1]	Steel	[3]	NA	NA	NA	NA	NA

Hole #	Drill Depth	Grouted Zone	Grout Material Type/Description
3132	71' 6"	0" - 71' 6"	Grout mix consisting of: 45 cu/ft of Blended Sand Grout Mix 4 cu/ft of Quick Gel 7 cu/ft of Fly-Ash 4.8 cu/ft of Type II Cement
8433M	51' 6"	0" - 51' 6"	Grout mix consisting of: 5 cu/ft of Quick Gel 7 cu/ft of Fly-Ash 9 cu/ft of Type II Cement
7386	162' 8"	0" - 162' 8"	Grout mix consisting of: 50 cu/ft of Blended Sand Grout Mix 2 cu/ft of Quick Gel 6 cu/ft of Fly-Ash 7.8 cu/ft of Type II Cement
9475	102' 4"	0" - 102' 4"	Grout mix consisting of: 94.5 cu/ft of Blended Sand Grout Mix 7 cu/ft of Quick Gel 30 cu/ft of Fly-Ash 9 cu/ft of Type II Cement 14.4 cu/ft of Barite
3127	33' 6"	0" - 33' 6"	Grout mix consisting of: 45 cu/ft of Blended Sand Grout Mix 2 cu/ft of Quick Gel 8 cu/ft of Fly-Ash 6 cu/ft of Type II Cement

Total Grout Volume

Approx. 60.8 cu/ft. (dry volume)

Approx. 21 cu/ft (dry volume)

Approx. 65.8 cu/ft (dry volume)

Approx. 154.9 cu/ft (dry volume)

Approx. 61 cu/ft (dry volume)

Table

1

2

3

4

5

NA

» **Notes**

Casing diameter information is unavailable. Diameters typically vary depending on the borehole depth, material, and purpose. Typical bit diameters include N, H, and P sizes.

Represents outer casing material at the surface. Some monitoring wells may also contain in interior PVC casing.

Geologic logs, where available, are provided as a separate submittal and are considered confidential information under AS 38.05.035.

See 'Grout Volume and Depth' tab. Repaired boreholes grouted to surface.

All disturbed areas are reclaimed immediately after activity is complete. Existing vegetation is preserved and stockpiled for reuse. For most 'cut and removal activities' disturbed area averaged less than 20 square feet. For larger disturbances, surface soils are replaced and rough-graded to minimize any erosion potential. The area is also seeded with an approved seed mixture and covered with straw. Reclamation success at each site will be evaluated for further enhancement during the 2018 field season.

Information not available.