



D16



D17



Seep at d/s toe. Water quality sample collected

July 6, 2015.



U1



U2



U3





U4



U5



U6



North Thermosyphon



North Thermosyphon



South Thermosyphon



South Thermosyphon





# North Dam Weekly Walkover Survey Report

|               |                                      |
|---------------|--------------------------------------|
| Date:         | July 11, 2015                        |
| Inspected By: | Robert Maksagak, Abraham Higiniq     |
| Conditions:   | (ie. snow on ground, clear)<br>clear |

## Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to [hopebaymonitoring@srk.com](mailto:hopebaymonitoring@srk.com) and [pluedke@srk.com](mailto:pluedke@srk.com)

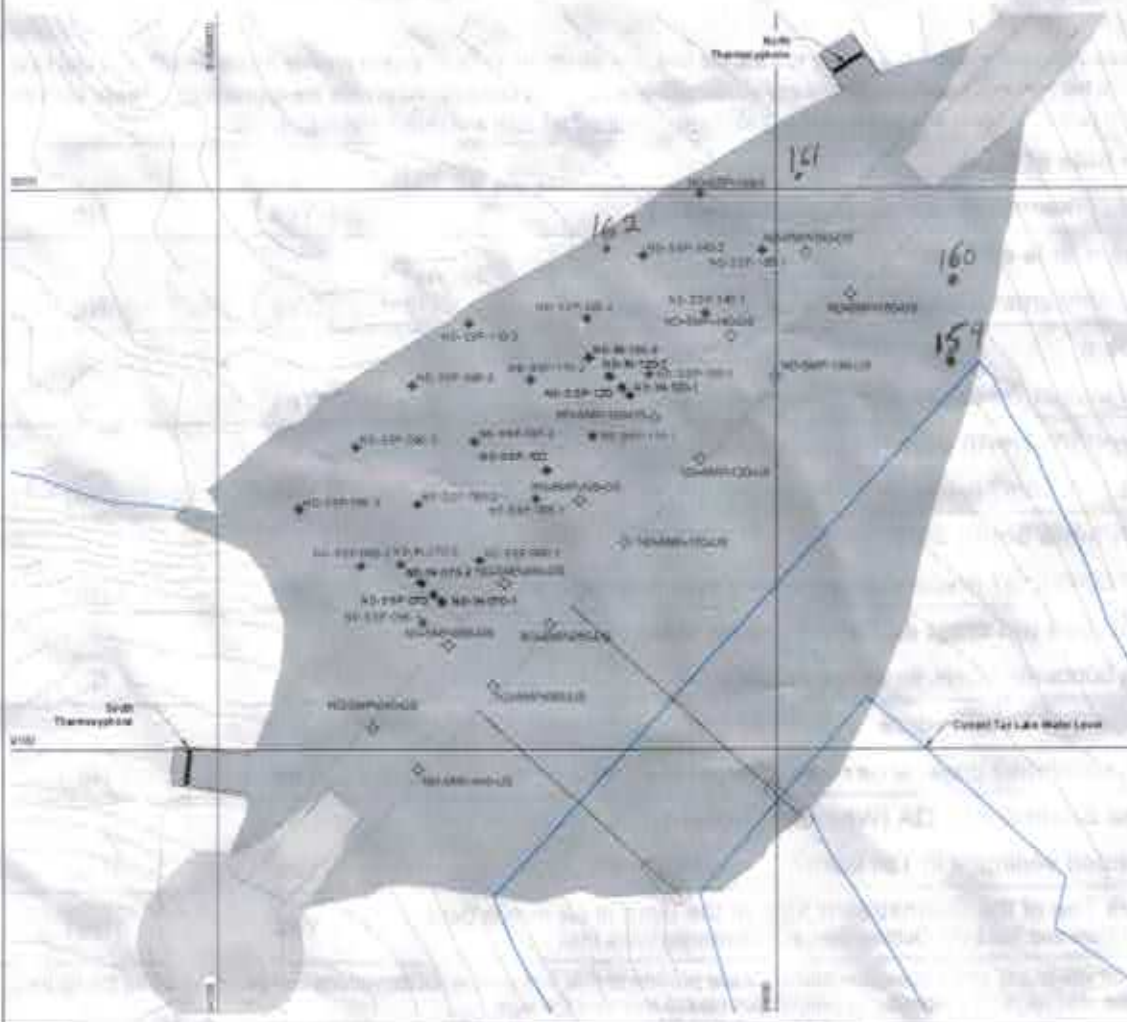
|                                                                                                                                                                                                                                    |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Upstream Side of Dam</b>                                                                                                                                                                                                        |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
| Any visible concerns? (cracks, depressions, erosion, etc.)                                                                                                                                                                         | See notes below                                                                                                                                                                                                        | <input checked="" type="radio"/> Yes <input type="radio"/> No                                                                                                                                |
| <b>Downstream Side of Dam</b>                                                                                                                                                                                                      |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
| Any visible concerns? (cracks, depressions, erosion, seepage, etc.)                                                                                                                                                                | See notes below                                                                                                                                                                                                        | <input checked="" type="radio"/> Yes <input type="radio"/> No                                                                                                                                |
| <b>Crest of Dam</b>                                                                                                                                                                                                                |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
| Any visible concerns? (cracks, depressions, erosion, etc.)                                                                                                                                                                         |                                                                                                                                                                                                                        | <input type="radio"/> Yes <input checked="" type="radio"/> No                                                                                                                                |
| <b>Thermosyphons North Side</b>                                                                                                                                                                                                    |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
| Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)                                                                                                                                                        |                                                                                                                                                                                                                        | <input type="radio"/> Yes <input checked="" type="radio"/> No <sup>①</sup>                                                                                                                   |
| <b>Thermosyphons South Side</b>                                                                                                                                                                                                    |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
| Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)                                                                                                                                                        |                                                                                                                                                                                                                        | <input type="radio"/> Yes <input checked="" type="radio"/> No <sup>②</sup>                                                                                                                   |
| <b>Instrumentation (on crest and downstream side)</b>                                                                                                                                                                              |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
| Any visible concerns? (bent, rusted, cracked, etc.)                                                                                                                                                                                |                                                                                                                                                                                                                        | <input type="radio"/> Yes <input checked="" type="radio"/> No                                                                                                                                |
| <b>Thermistors and Dataloggers</b>                                                                                                                                                                                                 |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
| Any visible concerns? (frayed or cut cables, damaged boxes, etc.)                                                                                                                                                                  |                                                                                                                                                                                                                        | <input type="radio"/> Yes <input checked="" type="radio"/> No                                                                                                                                |
| <b>Suspended Sediment in TIA (When not frozen)</b>                                                                                                                                                                                 |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
| Any suspended sediment in Tail Lake?                                                                                                                                                                                               |                                                                                                                                                                                                                        | <input type="radio"/> Yes <input checked="" type="radio"/> No                                                                                                                                |
| <b>Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North - North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)</b>                                                                        |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
|                                                                                                                                                                                                                                    |                                                                                                                                                                                                                        | <input type="radio"/> Yes <input checked="" type="radio"/> No                                                                                                                                |
| If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.                     |                                                                                                                                                                                                                        |                                                                                                                                                                                              |
| U1 - no change<br>U2 - no change<br>U3 - no change<br>U4 - no change<br>U5 - no change<br>U6 - no change<br>possible depression - 0434415<br>waypoint - ND-U7 7559199<br>possible depression - 0434428<br>waypoint - ND-U9 7559164 | D11 - no change<br>D8 - no change<br>D9 - no change<br>D17 - no change<br>D10 - no change<br>D3 - no change<br>D16 - no change<br>D12 - no change<br>D7 - no change<br>① a little bit of rust @ bottom of thermosyphon | D6 - possible sinking 1m more to the south of painted area.<br>D2 - no change<br>D13 - no change<br>D15 - no change<br>D5 - no change<br>D14 - no change<br>D4 - no change<br>D1 - no change |

③ little bit of rust on bottom of thermosyphon

possible depression - 0434407  
waypoint ND-D18 7559213

possible depression - 0434368  
waypoint ND-D19 7559189

Please provide any other observations you have made or items that did not fit in the space above



**Photos:**

Please collect the following photos:

Photo from north end looking south along the dam

☐

Photo from south end looking north along the dam

☐

Other photos, please describe







