NTS 27B/12

SITE INVESTIGATION AND REMEDIAL ACTION PLAN FOR THE DEWAR LAKES CAMP, BAFFIN ISLAND GOLD PROJECT, BAFFIN ISLAND, NUNAVUT

Nunavut Water Board Water Licence 2BE-NAD0813
INAC Land Use Permit N2013C0014
QIA Licence Q07L3C03
NIRB Approval 04EN022
Approximate Location:
Latitude: 68° 37' 59" N

Prepared For:
Commander Resources Ltd.

Longitude: 71° 06' 38 W

11th Floor, 1111 Melville Street Vancouver British Columbia V6E 3V6



Prepared by: APEX Geoscience Ltd.

#110, 8429 - 24 Street NW Edmonton, Alberta T6P 1L3



Tara Gunson, B.Sc. P.Geo.

November 28, 2016 Edmonton, Alberta, Canada

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1 Summary

APEX Geoscience Ltd. (APEX) was contracted by Commander Resources Inc. (Commander) to complete a Remedial Action Plan (the Plan) for the Dewar Lakes Camp Site (the Site), located on Baffin Island, Nunavut.

The Dewar Lakes Camp Site has not been used to conduct exploration programs since 2011. The site was last occupied in 2013 by Biogenie personnel, on behalf of Commander, to clean up and secure the Site after an episode of vandalism damaged camp structures.

A site inspection was conducted by the Indigenous and Northern Affairs Canada (INAC) Water Resources Officer in July, 2016. The inspector reported that the Site was vandalized and sustained significant damage. Most structures are compromised and the contents have been scatted by wind dispersion and wildlife.

The main objective of this document is to provide detailed information required to finalize a cleanup and rehabilitation plan for the Site. The Plan was established based on knowledge acquired by APEX through experience with similar campsite clean-up projects, and reviews of the 2016 INAC site inspection report and the 2013 Biogenie report. The Plan consists of a preliminary Site investigation, and a Camp Site clean-up and rebuild program which are anticipated to be conducted during the summer of 2017.

It is recommend that Commander conduct a preliminary Site visit in early June, or as soon as ground conditions allow for a proper inspection, in order to ascertain the materials that will be required to rebuild and to allow for sufficient time to procure these items. The Field Supervisor should be able to complete a Site visit in one day allowing for 2 additional days of travel.

To allow for a summer exploration program, the clean-up and rebuild of the Dewar Lakes Camp Site should be conducted in early July and is proposed to take approximately 10 field days (including travel days).

It is highly recommended that Commander complete community consultations to inform leaders of the local communities of the vandalism problem. In addition during future periods of inactivity, it is recommended that Commander request the assistance of the local community members to conduct Site visits to ensure the Site remains properly secured and to reduce the chance of further vandalism.

2 Introduction

APEX Geoscience Ltd. (APEX) was contracted by Commander Resources Inc. (Commander) to complete a Remedial Action Plan (the Plan) for the Dewar Lakes Camp Site (the Site). The Dewar Lakes Camp Site facilitated exploration on Commander's Baffin Island Gold Project, located on Baffin Island, Nunavut since 2006.

The main objective of this document is to provide the detailed information required to finalize clean-up and restoration plans for the Site.

The Plan was established based on knowledge acquired by APEX from experience on similar camp site cleanup projects and reviews of the site inspection report, conducted by the Indigenous and Northern Affairs Canada (INAC) Water Resources Officer in 2016, and the 2013 Biogenie report, which detailed the procedures for the previous Dewar Lakes Site clean-up. This Plan consists of a site investigation, campsite clean-up and camp rebuild program, anticipated to be conducted during the summer of 2017.

3 Project Background

Commander has been conducting exploration on its Baffin Island Project since 2004 and is planning to continue exploration in the future. Work conducted on the Property since 2004 has included ground geophysics, prospecting, rock sampling, geological mapping, and diamond drilling. The majority of the exploration work to date has been conducted on Inuit Owned Lands. Exploration work was operated out of two separate camps, located on crown land: a 40 person camp located on Dewar Lakes, adjacent to the North Warning System Fox-3 airstrip, and a 20 person camp located on Malrok Lake, approximately 40 miles west of the Dewar Lakes camp. The Malrok Lake camp was decommissioned and cleaned up in the summer of 2011 and all subsequent work on the project has been supported by the Dewar Lakes camp. No exploration work has been conducted on the Property since 2011.

The site was last occupied in 2013 by Biogenie personnel, on behalf of Commander, to clean up and secure the Site after an episode of vandalism damaged camp structures. This resulted in significant damage and exposure of contents to outdoor conditions, wind dispersion and wildlife. The Site was subsequently cleaned-up and secured by Biogenie upon request by Commander.

The Dewar Lakes Camp Site was inspected in the summer of 2016 by INAC Water Resources Officer Andrew Keim and found to be vandalised and damaged once again.

4 Regulatory Framework

The Dewar Lakes Camp Site is located on currently open crown land on the west side of Dewar Lakes, adjacent to the North Warning System Fox-3 airstrip (Figure 1). The campsite and previous exploration on the Property was most recently authorized

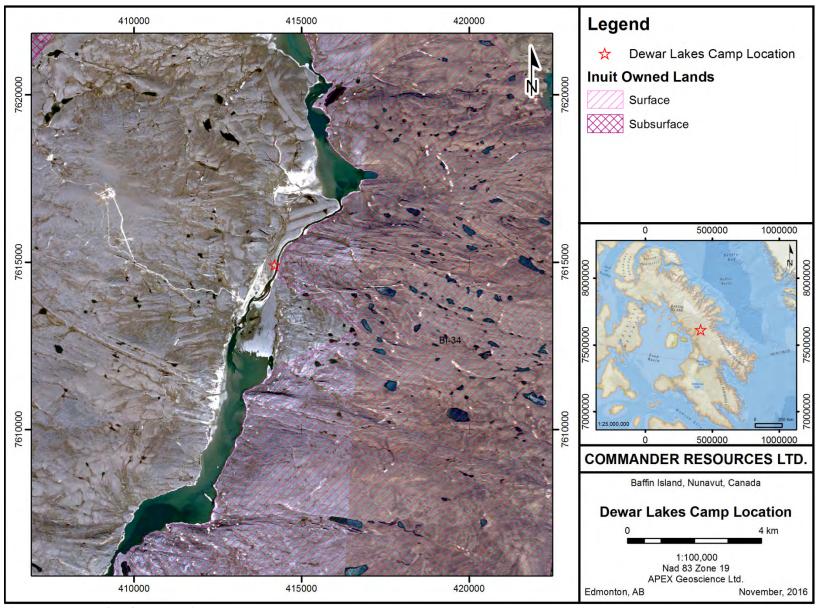


Figure 4.1 Dewar Lakes Camp Location

by INAC Land Use Permit N2013C0014, Nunavut Water Board (NWB) Water Licence 2BE-NAD0813, Nunavut Impact Review Board Screening Approval 04EN022 and Qikiqtani Inuit Association (QIA) Licence Q07L3C03. The permits and licences have expired, but Commander is in the process of renewing the exploration approvals.

5 Remedial Action Plan

5.1 Remediation Objectives

APEX has identified the following objectives for the remediation of the Dewar Lakes Camp Site:

- To provide for a cost-effective and environmentally acceptable Remediation Plan for the Site
- To provide a Remediation Plan that will prevent the potential migration and/or wind dispersion of contaminants into the surrounding ecosystem
- To provide a Remediation Plan that will be approved by regulators
- To restore the Site to a safe condition.

In preparing this plan, a variety of potential remediation options were evaluated. Each option was reviewed to consider factors such as technical practicality, previous effectiveness and permanence. From this review, a short list of potentially applicable activities was compiled.

The short list of activities was then further assessed against other factors including:

- Physical conditions at the Site
- Working nature of the Site
- The short remediation season/timeframe (i.e. the summer months)
- Weather conditions
- Ability to mitigate risks to human and environmental health
- Stakeholder and regulatory authority expectations/requirements
- Reaching closure in a timely manner
- Flight and aircraft availabilities
- Available local materials
- Cost

5.2 Remediation Implementation Plan

5.2.1 Permitting and Annual Reporting

A number of activities are required to be completed prior to the commencement of the remediation activities. These include:

- Completion and submission of Annual Reports for 2014, 2015 and 2016 to INAC, NWB, NIRB, QIA and the Government of Nunavut (GN).
- Submission of outstanding (if any) Water Use Fees to NWB.
- Update of Health & Safety Manual, Non-technical Summary, Abandonment and Restoration Plan, Spill Contingency Plan and Waste Management Plan and submission to INAC, NWB, NIRB and the QIA.
- A new Exploration Agreement with NTI is currently being negotiated.
- Submission of extension requests to INAC for Land Use Permit N2013C0014 and to NWB for Water Licence 2BE-NAD0813.

5.2.2 Preparation

Some preparatory activities will also be required prior to mobilization in the summer of 2017. These will include, but not be limited to:

- Contacting officials in the surrounding communities to inform them of the vandalism problem and to make the status of the camp known to the public so it is not incorrectly assumed to be abandoned.
- Obtaining approval from Biogenie, on behalf of the DND (Department of Defense), for use of the Fox-3 airstrip.
- Obtaining approval from the community where hazardous and non-hazardous materials are to be disposed.
- Contacting the Hamlet of Clyde River to determine what happened to fuel drums that were transported to the Clyde River Airport.
- If required, removal of fuel at Clyde River Airport is to occur concurrently with Dewar Lakes Camp clean-up.

5.2.3 Remediation

Remediation activities at the Site will include:

 All salvageable and/or hazardous material that will remain on Site will be inventoried, as will the amount and nature of items to be backhauled for proper disposal.

- Photographs will be taken of the Site before and after clean-up
- All garbage that cannot be incinerated, ash from incinerated garbage, expired fuel and empty fuel drums to be removed for proper disposal
- Secondary containment to be inspected and either be fixed or replaced
- Sediment and erosion control measures will be implemented to prevent entry of sediment into water. Sediment and erosion control is generally comprised of two main strategies:
 - Stabilization practices, which are used to prevent erosion and siltation and may include hydroseeding, mulching, geotextiles, sod stabilization, buffers, protection of trees and mature vegetation, and decreasing slope angles or lengths.
 - 2. Structural practices divert flows from exposed soils, store flows, or otherwise limit runoff and discharge of sediments from exposed areas of the site. Practices may include ditches, silt fences, earth dikes, drainage swales, sediment traps, check dams, slope drains, level spreaders, reinforced soil retaining systems, and sediment basins.
- The Malrock camp will be inspected during the course of the Dewar Lakes Camp clean-up and any remaining reclamation required will be documented and completed.

5.2.4 Analytical Testing

During remediation, testing will be performed as required. If land spills have occurred, soil samples will be collected after the contaminated soil is excavated to assess if any residual spill remains. If any spills have potentially affected a waterbody, water samples will be collected for analysis to determine any contamination levels.

If there appears to be any significant permafrost thawing within the camp area (such as along pathways), the depth to permafrost in those areas will be surveyed by Ground Penetrating Radar (GPR) and compared to that of the surrounding area to determine if any remedial action is required.

5.2.5 Land Treatment

Any land based spills will be handled as per the updated Spill Contingency Plan. Any areas found to have permafrost thawing will be cleaned up and sectioned off to allow ground to refreeze.

5.2.6 Water Treatment

Any spills that have affected waterbodies will be handled as per the updated Spill Contingency Plan

5.2.7 Monitoring

Monitoring of the camp after the clean-up will be conducted during camp use in the summer months.

6 Logistics and Remediation Schedule

Taking in to consideration all of the factors listed in the Action Plan a Remediation Schedule for the summer of 2017 is proposed as follows:

Table 6.1. Logistics Schedule

Date	Action	Description
June 1	Field supervisor travel	Commercial flight from Edmonton to Iqaluit
June 2	Site Inspection by Field supervisor	Charter flight from Iqaluit to Site Site Inspection and rebuild material list Charter flight from Site to Iqaluit
June 3	Field supervisor travel	Commercial flight from Iqaluit to Edmonton
June 4 - July 1, 2017	Project preparation	 Procurement of tools and supplies in the south (Edmonton) and remotely in Yellowknife Identifying status of fuel drums at Clyde River Communications Flight, helicopter and hotel bookings Final cost adjustments
July 2, 2017	Mobilization of field supervisor to Iqaluit	Commercial flight from Edmonton to Yellowknife Field supervisor to ensure all required equipment and materials are available and procure any missing items
July 3, 2017	Mobilization of field crew to Iqaluit	Commercial flight from Edmonton to Iqaluit
July 4, 2017	Mobilization of field crew and equipment to Site	 Charter flight for crew from Iqaluit to Site Charter flight for field supervisor and equipment/materials from Yellowknife to Site Mobilization of helicopter to Site
July 5 - 19, 2017	Camp clean up and rebuild	Includes inspection of Malrok Camp and back- hauling of waste to local community (after approval obtained)
July 20, 2017	Demobilization of crew, equipment and Helicopter	Charter flight from Site to Iqaluit Demobilization of helicopter from Site
July 21, 2017	Demobilization of field crew from Iqaluit	Commercial flight from Iqaluit to Edmonton

^{*}Dates may need to change slightly, as historically the airstrip has been off limits from July 1 to July 10 for restocking of the radar site. Request will be made to Biogenie to use the strip at this time as the supply flights might be able to be used to backhaul materials from camp.

7 Conclusions

It is recommend that Commander conduct a preliminary Site visit in early June (or as soon as ground conditions allow for a proper inspection) in order to ascertain the materials that will be required for the rebuild and to allow for sufficient time to procure the items. The Field Supervisor should be able to complete a Site visit in one day allowing for 2 additional days of travel.

To allow for a summer exploration program, the clean-up and rebuild of the Dewar Lakes Camp Site should be conducted in early July and is proposed to take approximately 10 field days (including travel days).

It is highly recommended that Commander complete community consultations to inform leaders of the local communities of the vandalism problem. In addition during future periods of inactivity, it is recommended that Commander request the assistance of the local community members to conduct Site visits to ensure the Site remains properly secured and to reduce the chance of further vandalism.

Appendix 1 Water Licence Inspection Notice

WATER LICENCE INSPECTION FORM

Original	
Follow-Up	Report

								• op neport	
Licensee				Licens	see Represent	ative			
Robert Cameron				None	•				
President and CEO									
Commander Resource	es Ltd								
11 th Floor , 1111 Mel	ville Stree	t							
Vancouver British Co	lumbia								
V6E 3V6									
Licence No. / Expiry				Repre	sentative's Tit	tle			
2BE-NAD0813 (E	xpired)			Non	е				
Land / Other Authorizations	• •			Land	/ Other Autho	rizations			
N2013C0014 -Ex	kpired: A	\ugust :	14,2016	Nil					
Date of Inspection				Inspe	ctor				
July 20, 2016				A.K	eim				
Activities Inspected	_			_			_	_	
	Drilling	ter Discharge	Mining	Ļ	Construction Other: Mur		Reclamation	☐ Fuel Storag	ge
Noaus/Hauling	Other. wa	ter Discharge	-		_ Other. War	пстрат			
Conditions: A - A	Acceptable	C	- Concern	U - Unaco	eptable	NA – N	Not Applicable	NI – Not Ins	pected
Water Use	Condition	Comment	Site Condition	ons	Condition	Comment	Haz/Mat Management	Condition	Comment
Intake/Screen	NA		Water Manag	ement	NA		Storage	U	
			Structures				_		
Flow Measure. Device	NA		Culverts / Br	idges	NA		Spills	NI	
Source: Station Creek	NA		Drainage		NA		Spill Plan	U	
Water Use:	NA		Erosion / Sec	diment	NA				
Recirculation (y /n)	NA		Mitigation M	leasures	U		Administrative		
			Reclamation	Activities	U		Records	U	
			Materials Sto	orage	U		Reports	U	
Waste Disposal			Signage		NA		Plans	U	
Waste Water	NA						Notifications	U	
Solid Waste	U		Monitoring				Other		
Hazardous Waste	U		Sample Colle	ection /	U				
			Analysis						
*7	he number	in the cor	mments field v	will correspo	ond with spe	ecific com	nents provided belo	OW.	I
Samples taken by Inspe	ector:		Location(s):	None were	collected c	during the	period of Inspectio	n	
☐ Yes ☒ No									
☐ 163									

Commander Resources' Water License (Amendment 1) expired on September 1st 2013.

Administration

The Commander Resources site at Dewar Lakes has not been occupied since 2013.

Commander Resources Ltd has been conducting exploration in central Baffin Island since 2003. The Company has had a water license in place to conduct this activity since 2006. The majority of the work being conducted out of a 40 person camp located on Dewar Lakes latitude of 680 38'N and longitude of 71 o 08'W, adjacent to the North Warning System Fox-3 airstrip, and a 20 person camp located on Malrok Lake, latitude of 680 30'01" W and longitude of 72 o 27'39"N, approximately 40 miles west of the Dewar Lakes camp.

At the Dewar Lakes camp JET A fuel stored in 45 gallon drums and diesel fuel stored in two 12,500 gallon bulk fuel bladders were documented in inspections conducted between 2007 and 2013 prior to the expiry of the 2013. All fuel barrels and fuel bladders were found to be in secondary containment berms during these inspections.

Camp facilities consisted of accommodations for up to 40 persons, a large cook tent, gen shack, Incinerator, core shacks and metal silo structure to be used for storage.

Prior to the expiry of the license a large number of barrels of fuel were transported to the airport maintenance area of the Clyde River Airport. E-mails (8/21/2013) cc'd to the inspector detail some negotiation between the SAO of the Hamlet and S. Potts of Commander Resources regarding Storage and the sale of this fuel. It is not clear what the final result of these discussions was or what has become of the barrels of fuel.

Following the final year of activity 2013, an annual report for the 2013 year was filed by Mr. Potts with the Nunavut Water Board on



March 12, 2015.

Since that time there has been no communication to Inspectors or the Nunavut Water Board that we can locate or have on file.

It was unclear to inspectors at the time for the Inspection if the Camp has been abandoned or if the Licensee has placed the camp into some form of Care and Maintenance. Following the Inspection a number of attempts to contact the Licensee were undertaken and on August 31st, 2016 an e-mail was received by the Inspector from Mr. Rober Cameron (President and CEO) of Commander Resources.

In the E-mail Mr. Cameron advised the Inspector of the following:

- Commander Resources is working on revitalizing the existing permits (Land Permit and Water License)
- Commander Resources has sufficient resources to return to the site in 2017 to address deficiencies found during the
 inspection and intends to do so.
- Commander Resources has moved offices and their new coordinates are:

Commander Resources Ltd 1100-1111 Melville St. Vancouver BC, Canada

Inspection Findings:

- The fuel bladders were found in site but had been removed from service and packaged.
- Approximately 10 drums of unknown contents were found on site. Some in secondary containment some outside.
- Secondary conta9inment (4) has been blown/knocked down in a number of places. (Unserviceable)
- Two snow machines found on ite have been stripped for parts.
- Core shack remains standing
- Gen shack does not contain any generators
- Canvas tents have blown down.
- Weather havens have collapsed; poles remain in place for the most part.
- Wooden floors for tents remain however sides have all blown away.
- Wind blown garbage is scattered across the tundra and down to the lake shore from the camp.

SECTION 3 Comments (s.) Non-Compliance with Act or License (s.) Action Required (s.

Non-compliance

The Nunavut Waters and Nunavut Surface Rights Tribunal Act;

12. (1) Subject to subsection (2) and except in accordance with the conditions of a licence, no person shall deposit or permit the deposit of waste

(a) in waters in Nunavut; or

(b) in any other place in Nunavut under conditions in which the waste, or any other waste that results from the deposit of that waste, may enter waters in Nunavut.

(2) Subsection (1) does not apply in respect of

(a) any unlicensed deposit of waste that is authorized by the regulations; or

(b) the deposit of waste in a national park.

Based on observations and photos collected during the period of the Inspection, the Inspector believe s that the Licensee has failed to adhere to section 12 as above and is in contravention of the Act.

Further, Subject to Section 42 of the Act the Nunavut Water Board may, subject to this Act and Regulations, upon application issue the appropriate License. In this case a Class B License for mining and Milling (Exploration Activities and the associated Camp Activities at Dewar Lakes, Nunavut. Subject to the conditions placed within that license the Inspector finds the following sections that are not incompliance;

Part B: General Conditions

- Part B (2) The Licensee has failed to file annual reports since the expiry of the License (2014, 2015)
- Part B (3) The Licensee has failed to inform the NWB of any changes in operating Plans or conditions associated with the project at least (30) Thirty days prior to any such change.

Part C: Conditions Applying to Water Use

Part C (7) The Licensee has failed to ensure and maintain Sediment and erosion control measures shall be implemented prior
to and maintained during the operation to prevent entry of sediment into water.

Additionally, Please note;

46. The expiry or cancellation of a licence does not relieve the holder from any obligations imposed by the licence.





The Licensee has indicated that they intend to address the above noted non-compliance following the revitalization of the required permits and authorizations. (Email, R.Cameron, August 31st, 2016)

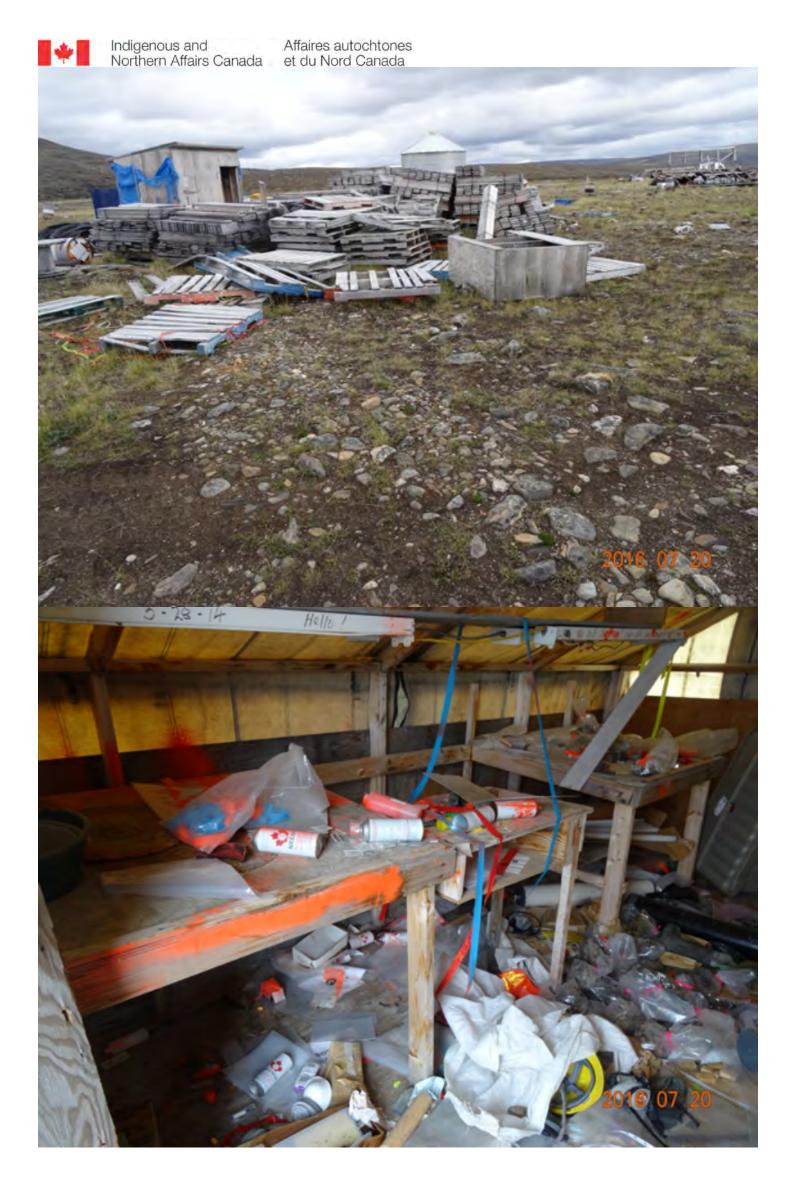
Following receipt of the above e-mail the Inspector recommends that Commander Resources undertaken this process immediately and that the Inspector and INAC be kept informed of Commander's progress through the submission of an Action Plan that includes milestones and clear dates by which Commander Resources will return to a state of compliance with the legislation. Submission of this plan is required within 90 days and is to be submitted to the Inspector and the Nunavut Water Board.

Date	Authorization	Camera	Inspector
July 20, 2016	2BE-NAD0813 Expired	Sony Cyber shot	A. Keim
		, ,	































Licensee or Representative	Inspector's Name		
	A. Keim		
Signature	Signature		
	On original document		
Date	Date		
	27/6/2016		

Office Use Only: F	Follow-up report to be issued by Inspector	☐ Yes ☐ No	
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