

3.0 FIELD ACTIVITIES

Detail on the field construction activities are provided in the following sections.

3.1 Mobilization/Demobilization

3.1.1 Materials and Supplies

Materials, supplies, equipment and services were mobilized from Dartmouth, Port Hawkesbury, Mulgrave (Auld Cove), Sydney and North Sydney as outlined in Table 3.1.

TABLE 3.1 SOURCE OF SUPPLIES, MATERIALS AND SERVICES

Source Location	Material/Supply/Service	Company
Dartmouth	Concrete Forming Timber ⁽¹⁾ , Small Tools, etc.	Terra Marine Environmental
	Reinforcing Steel (Rebar) ⁽¹⁾	Terra Marine Environmental (Drummond McColl)
	Steel Grating ⁽¹⁾	Terra Marine Environmental (Drummond McColl)
	Pre-Cast Concrete Panels ⁽¹⁾	Terra Marine Environmental (Shaw Resources)
Port Hawkesbury	Concrete Testing	Jacques Whitford
	Surveying	Jacques Whitford
	Reinforcing Steel (Rebar)	Jacques Whitford
Mulgrave (Auld Cove)	Redi-Mix Concrete	Concrete Services Limited
Sydney	Redi-Mix Concrete	Concrete Services Limited
North Sydney	Excavator Rental (Komatzo Advance PC 2000)	Bob MacDonald Construction

⁽¹⁾: Delivered to site by highway flatbed trailer

3.1.2 Accommodation

During the course of the construction activities, the field staff was accommodated in cabins in the community of Grand River. The cabins provided full cooking and housekeeping facilities. Grand River is located on Provincial Highway No. 247, approximately 21 km from the Stirling Mine site. Fuel, telephones and other services were also available in Grand River.



3.2 Construction Period

On-site construction activity lasted for a period of five days. The construction crew and JWA engineer arrived on-site on the morning of October 23, 1995 and left the site during the afternoon of October 27, 1995. Normal working hours were 8:00 a.m. to 5:30 p.m., with the exception of October 23rd and 27th. There were no delays in construction as a result of weather or shortages of material.

A daily summary of the various construction activities carried out at each of the four mine openings is provided in Table 3.2.

3.3 Support Services

3.3.1 Concrete Testing

Concrete testing services were provided by JWA from Port Hawkesbury, Nova Scotia (October 25th and 26th, 1995). Three concrete cylinders were obtained both times concrete was delivered to the site. In addition to obtaining concrete cylinders, tests were conducted on the concrete to determine percent entrained air and slump. Results of the concrete testing are detailed in Section 4.11. The concrete testing reports are provided in Appendix I.

3.3.2 Surveying

Survey services to determine the elevation of the completed concrete caps on Shaft No. 1 and No. 1 and No. 2 Raises, were provided by JWA from Port Hawkesbury, Nova Scotia.



TABLE 3.2 RECORD OF SITE ACTIVITIES

LOCATION	DATE/ACTIVITY				
	OCTOBER 23	OCTOBER 24	OCTOBER 25	OCTOBER 26	OCTOBER 27
No. 1 Shaft	<ul style="list-style-type: none"> - Begin Constructing Forms - Grade Around Collar 	<ul style="list-style-type: none"> - Complete Forms - Position and Tie Rebar - Drill Holes for Rebar Dowels 	<ul style="list-style-type: none"> - Brace Forms - Grout in Dowels - Clean Interior of Form - Pour Concrete Cap 	<ul style="list-style-type: none"> - Remove Bracing and Loosen Forms - Grade Around Collar 	<ul style="list-style-type: none"> - Remove Forms - Clean Up - Complete Final Grading Around Shaft Collar
No. 2 Shaft	<ul style="list-style-type: none"> - Clean Off Collar - Position Steel Grating 	<ul style="list-style-type: none"> - Construct Forms - Drill Holes for Rebar Dowels - Position and Tie Rebar 	<ul style="list-style-type: none"> - Grout in Dowels - Clean Interior of Forms - Pour Concrete Anchor Ring 	<ul style="list-style-type: none"> - Loosen Forms 	<ul style="list-style-type: none"> - Remove Forms - Clean Up - Install Metal Brackets
No. 1 Raise	<ul style="list-style-type: none"> - No Activity 	<ul style="list-style-type: none"> - Groom Slopes and Level Base - Start to Assemble and Tie Rebar - Rope Off Opening for Site Security 	<ul style="list-style-type: none"> - Complete Rebar Mat 	<ul style="list-style-type: none"> - Level Base and Square Sides of Excavation - Position Rebar Mat in Opening - Pour Concrete 	<ul style="list-style-type: none"> - Fill Around Base and Sides of Concrete - Groom Slopes - Construct Safety Berm Around Excavation
No. 2 Raise	<ul style="list-style-type: none"> - Excavate Fill to Bedrock - Rope Off Opening for Site Security 	<ul style="list-style-type: none"> - Complete Excavation and Cut Back Slopes - Clean Off Bedrock Surface - Rope Off Opening for Site Security 	<ul style="list-style-type: none"> - Construct Form for Cast-in-Place Cap - Rope Off Opening for Site Security 	<ul style="list-style-type: none"> - Place Fines for Levelling Course and Position Two Pre-Cast Panels - Position and Tie Rebar - Pour Concrete Cap - Groom Slopes and Start Berm 	<ul style="list-style-type: none"> - Remove Forms - Position Third Pre-Cast Panel - Fill Around Base and Sides of Concrete Cap - Groom Slopes and Complete Berm