



B.H. MARTIN CONSULTANTS LTD.
CONSULTING ENGINEERS AND ARCHITECT

834 Mountjoy Street South
P.O. Box 120
Timmins, Ontario P4N 7C5
Tel. (705) 264-9413
Fax. (705) 267-2725

January 7, 2007

Cheryl Wray
Environmental Superintendent
Baffinland Iron Mines Corporation
Suite 1016, 120 Adelaide Street West
Toronto, Ontario
M5H 1T1

Dear Cheryl,

RE:

**MARY RIVER PROJECT
TANKS-A-LOT SEWAGE TREATMENT AND DISCHARGE
AS-CONSTRUCTED REPORT
OUR REFERENCE NO. 06-090**

B.H. Martin Consultants was retained by Baffinland Iron Mines Inc. to design the sewage works for their Exploration camp at Mary River Mine site in Nunavut and to complete the as-constructed reports.

The site is located approximately 160km south of Pond Inlet, in the north-eastern section of Baffin Island. Approximate distances from the project site to other communities in the region are 270 km to Arctic Bay, and 415 km to Clyde River.

Presently the site consists of a 100-person camp of predominantly Weatherhaven™ tents, two steel Quonset huts as maintenance facilities, and numerous small wooden outbuildings, situated approximately 200 meters from the shore of Camp Lake.

A Rotating Biological Contactor (RBC System) Sewage Treatment is being constructed for the camp for sewage treatment for the duration of the bulk sampling program. In the meantime, temporary measures were needed for sewage treatment while waiting for the RBC system to be constructed and while exploration is being performed on site.

As-Constructed Conditions

The Owner installed and commissioned a wastewater treatment system (Norweco – Singlair Model 960 Treatment System from Tanks-A-Lot) capable of handling sewage of 460 BOD₅/490 TSS for 50 people generating 227 litres of sewage per day on October 7, 2007. No non-domestic waste or stormwater has been directed to the treatment system. The sewage for the population of more than 50 is by-passed to a Polishing/Waste Stabilization Pond (PWSP) approximately 500 meters from the camp. A schematic of the Tanks-A-Lot Treatment system is included in Appendix 1.

January 7, 2008



B. H. Martin Consultants Ltd.

BIMC also constructed the Polishing/Waste Stabilization Pond (PWSP) prior to the commissioning of the Tanks-A-Lot system in order to store the system effluents. The Pond was designed to have a capacity of 3,521 Cubic Meters. Based on the recent survey of the pond, as set out on drawings included in Appendix 1, the installed pond has a capacity of 2,510 Cubic Meters. The pond was lined with the specified liner of EL 6040. The installation of the pond underlying material and the liner installation have been certified by Layfield Industries. The Treatment System as-constructed drawings and the QA/QC report from Layfield is attached to Appendix 1. Photos of the Tanks-A-Lot System are included in Appendix 2.

Since the commissioning of the Tanks-A-Lot System and the Polishing/Waste Stabilization Pond (PWSP) on October 7, 2007 up until December 25, 2007 (80 days) the maximum number of personnel at the site has reached 65 persons. This number was maintained during the Christmas 2007 holidays and is expected to ramp up to 120 people by February 1, 2008. Maximum sewage generation has been measured to be approximately 200 litres per capita per day (200 lpcd) with an average estimated loading of 460 BOD₅ and 490 TSS. This volume of 1,040 (65 persons at 200 lpcd for 80 days) represents the volume of effluent currently stored within the PWSP leaving the available capacity within the constructed PWSP to be 1,470 Cubic Meters.

As discussed in our design Waste Water Management Plan submitted to the NWB, an RBC system capable of handling sewage effluent for 150 people is planned to be constructed as soon as it arrives at the Mary River Site. The RBC system arrived at the Mary River site shortly before Christmas Holidays and is currently being installed and is scheduled for commissioning in January of 2008. Assuming that it takes 21 days for the RBC system to become fully operational, The Tanks-A-Lot system and the PWSP are expected to cease operation after that time. Below is a summary of the volumes of effluent within the PWSP prior to and after the RBC start-up:

Total volume of As-Constructed PWSP (C.M)	2,510
Max. no. of people at the site from Oct.7 to Dec. 25, 07	65
Max. Volume of sewage generated per day per person	200
Number of days from commissioning day to Dec. 25, 2007	80.00
Maximum Volume of effluents sent to PWSP before holidays	1,040.00
No. of People at the camp (from Dec. 25 to Jan. 7, 08)	65
No. of days from Dec. 25, 2007 to Jan. 7, 2008	13
Max. Volume of sewage generated per day per person	200
Volume of effluent sent to PWSP during the holidays	169
Avg. No. of people at camp by the time RBC is fully operational	90
*We have assumed that the 65 people will return immediately after the holidays and then will ramp to 120	
No. of days from January 7 to RBC operation	30
Max. Volume of sewage generated per day per person	200
Maximum Effluents to be sent to PWSP from Jan. 7 to RBC full operation	540.0
January 7, 2008	

B. H. Martin Consultants Ltd.



Total Estimated Maximum Volume of Effluents in the PWSP by RBC full operation

1,749.00

Available capacity within PWSP after the expected RBC full operation

761

Equivalent no. of days at 200 lpcd at 120 people

31

Effluent in the PWSP will be tested during the summer and, depending on the test results; the effluent will be either discharged to Sheardown Lake in late summer of 2008 or retained for discharge at a later date depending on the quality of the effluent.

It is currently planned to retain the sewage in the PWSP for at least 12 months. Upon confirmation of acceptable BOD₅, TSS and E.Coli levels, the PWSP shall be discharged in the spring/summer of 2008 via a 75mm forcemain into Sheardown Lake or shall be returned to RBC system for re-treatment prior to discharge to Sheardown Lake.

Prior to the PWSP being discharged to Sheardown Lake, phosphorus removal will be performed by batch dosage of alum prior to discharge to the lake. Assuming that raw sewage contains 7 mg/L of phosphorus and that 15 mg of alum is required to treat 1 mg of phosphorus, 105 mg of alum will be required to treat every litre of sewage. The sampling for Phosphorus level within the pond is planned for spring 2008.

Yours truly,

B.H. Martin Consultants Ltd.

F. G. Kord

Marz G. Kord, P. Eng., M.Sc., MBA
Manager of Engineering
Mk/



January 7, 2008



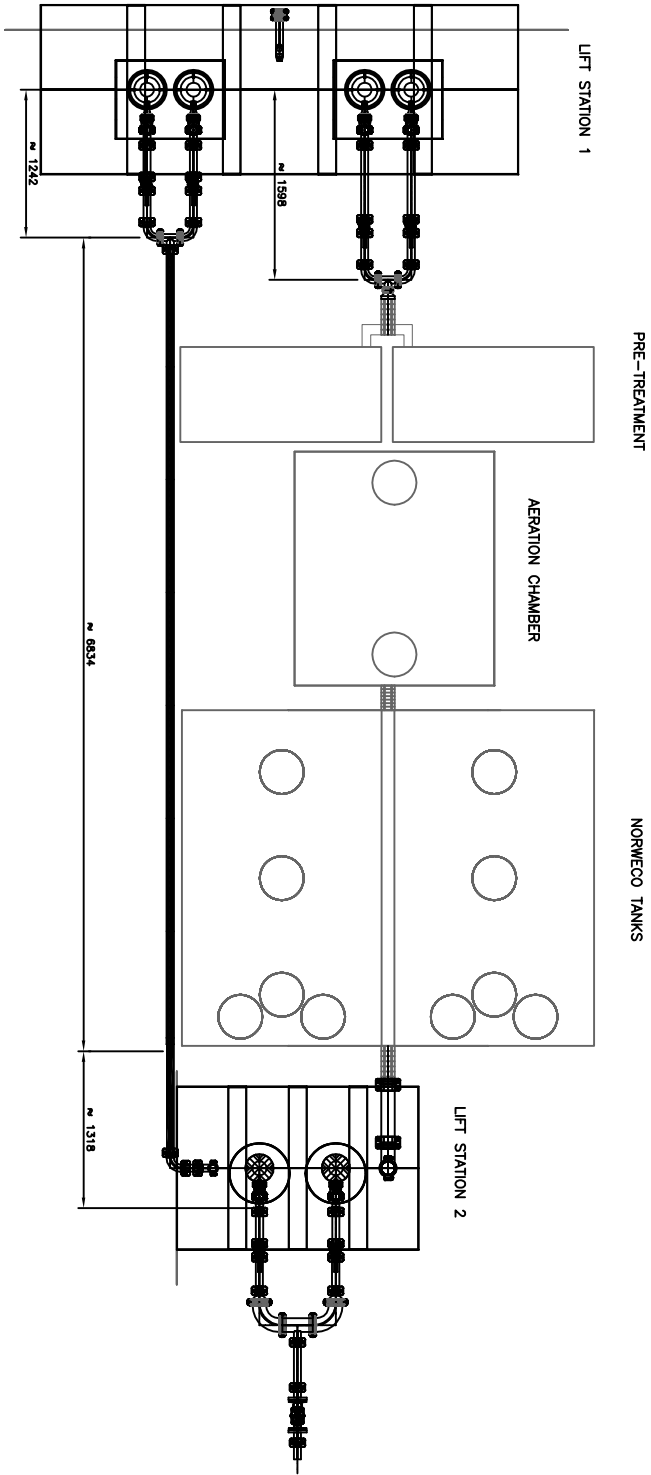
B. H. Martin Consultants Ltd.

➤ **APPENDIX 1**

- **AS-CONSTRUCTED SCHEMATICS AND PLAN**
- **PWSP PLAN AND SECTIONS**
- **PWSP LINER QA/QC REPORT FROM LAYFIELD**


TANKS A LOT SEWAGE TREATMENT SYSTEM

SCALE 1:50



This Drawing is an instrument of service and shall remain the property of B.H. Martin Consultants Ltd. It may not be reproduced or copied in any form, in whole or in part, without the written consent of B.H. Martin Consultants Ltd. Any use of this Drawing for any purpose other than that for which it was prepared is strictly prohibited. The Architect and Engineer shall not be responsible for any errors or omissions or for any consequences arising from the use of this Drawing. The Architect and Engineer shall not be responsible for any damages or losses arising from the use of this Drawing. The Architect and Engineer shall not be responsible for any claims or liabilities arising from the use of this Drawing. The Architect and Engineer shall not be responsible for any costs or expenses arising from the use of this Drawing. The Architect and Engineer shall not be responsible for any delays or interruptions arising from the use of this Drawing. The Architect and Engineer shall not be responsible for any other matters arising from the use of this Drawing.

Description	Date	No.
Revisions and Issues		



B.H. Martin Consultants Ltd.
Consulting Engineers and Architects
www.bhmartin.co.uk

ARCHITECT

STRUCTURAL/CIVIL

MECHANICAL	ELECTRICAL
.....
.....
.....
.....

Project:

MARY RIVER PROJECT

BAFFINLAND IRON MINES CORP

BAFFIN ISLAND

ONTARIO

Drawing:

TANKS A LOT

AS BUILT

SCHEMATIC

Date:

JAN 2008

Scale:

1:50

Drawn:

06-090

Checked:

SK-1

Approved:

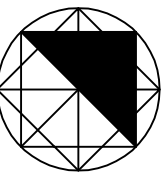
SK-1

This Drawing is an instrument of service and shall remain the property of B.H. Martin Consultants Ltd. It may not be reproduced or copied in any form. It shall not be used for the construction, enlargement or alteration of a building other than the said project without the authorization of the ARCHITECT and/or ENGINEER.

Contractors shall verify and be responsible for all dimensions and conditions on the job and report any discrepancies to the Architect and/or Engineer before proceeding with the work.

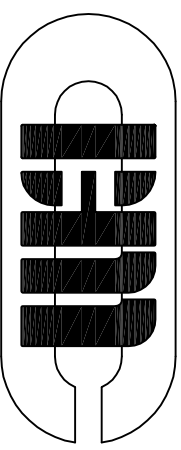
Drawings shall not be scaled.

Description		
Revisions and Issues		
	Date	No.



NORTH

Date Printed



B.H. MARTIN CONSULTANTS LTD.
Consulting Engineers and Architect
Toronto, Ontario
www.bhmartin.com

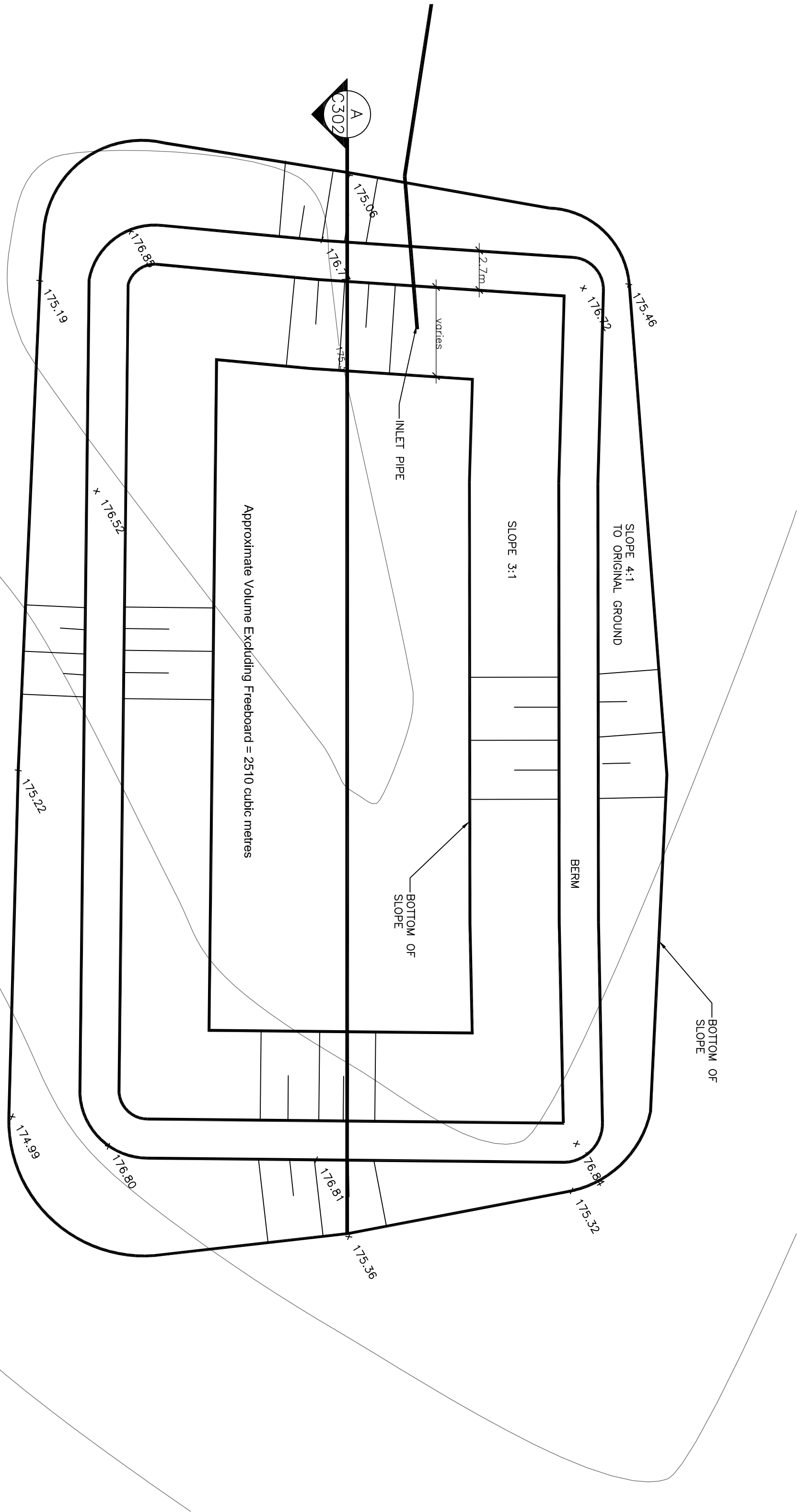
ARCHITECT **STRUCTURAL/CIVIL**

MECHANICAL ELECTRICAL

Project
MARY RIVER PROJECT
BAFFINLAND IRON
MINES CORPORATION
BAFFIN ISLAND NUNAVUT

Drawing
AS BUILT
POLISHING POND
PLAN AND SECTIONS

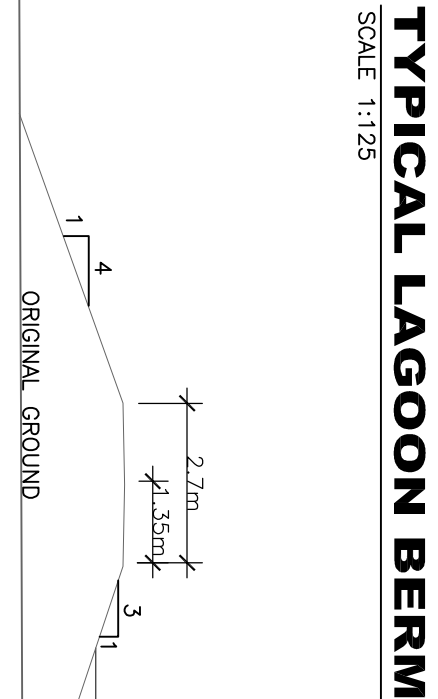
Date	CADD File Number
JAN 2008	survey/martyr/c302
Scale	Job Number
AS NOTED	07-039
Drawn	Drawing Number
AB	
Checked	
Approved	C302



LAGOON PLAN VIEW

SCALE 1:250

SCALE



TYPICAL LAGOON BERM

SCALE 1:125

EL. 176.77
EL. 176.32
EL. 175.72
EL. 174.98

TYPICAL LAGOON BERM ELEVATIONS

SCALE 1:125

EL. 176.77
EL. 176.32
EL. 175.72
EL. 174.98

FREEBOARD (0.6m ABOVE HIGH LIQUID LEVEL)
HIGH LIQUID LEVEL (0.96m FROM BOTTOM)
BOTTOM OF POND
2.0m BERM HEIGHT
BOTTOM OF POND RETAINED AFTER DISCHARGE

SCALE





LAYFIELD ENVIRONMENTAL SYSTEMS LTD.
11603-180 Street NW, Edmonton, AB T5S 2H6

TRANSMITTAL

To : Baffinland Iron Mines Corp.
1016 - 120 Adelaide Street West
Toronto, ON M5H-1T1

Date : October 22/ 2007

Attn : David Alexander(416)364-8820

Project : Baffinlands Polishing Pond

Re : QA/QC

Please find the following documentation enclosed:

Copies	Pages	Description
3	Booklets	Qa/Qc Baffinlands Polishing Pond

_____ For approval
and/or comments

_____ Approved or
approved as noted

_____ For your
information & use

_____ Not approved
Re-submit

☒ For your files

_____ Revised

Remarks :

Please sign and return the original five year warranty A.S.A.P enclosed in this package.

Copy to : _____

Signed : Amritpal Hunjan

(Signed as received)

Please sign as received and return a copy via fax (780) 452-9495

LS-03-QF-011

www.geomembranes.com

Edmonton

Vancouver

Calgary

Toronto

Seattle

San Diego

Layfield Environmental Systems Ltd.

**Project Completion QA/QC Package
for**

Baffinlands

Polishing Pond

Mary River, NWT

Supply and Install of EL 6040

Prepared By: Amritpal Hunjan

Reviewed By: Greg Van Petten

Date Submitted: September 4, 2007



Layfield Environmental Systems Ltd.

Table of Contents

for

Baffinlands

Supply and Install of EL 6040

Marry River, NWT

New Construction

1) Certificate of Acceptance of Soil Subgrade Surface	1 pg.
2) Certificate of Final Inspection and Acceptance	1 pg.
3) EL 6040 As Built Drawing	1 pg.
4) Inventory Log	1 pg.
5) Geomembrane Deployment Log	1 pg.
6) Geomembrane Trial Seam Log	4 pgs.
7) Geomembrane Seam Log	2 pgs.
8) Geomembrane Vacuum / Air Lance Test Log	1 pg.
9) Geomembrane Defect/Repair Log	1 pg.
10) EL 6040 Mill Certificates	2 pgs.
11) Installation Warranty	2 pgs.



Layfield Environmental Systems Ltd.

Table of Contents

for

Baffinlands

Supply and Install of EL 6040

Marry River, NWT

New Construction

1) Certificate of Acceptance of Soil Subgrade Surface	1 pg.
2) Certificate of Final Inspection and Acceptance	1 pg.
3) EL 6040 As Built Drawing	1 pg.
4) Inventory Log	1 pg.
5) Geomembrane Deployment Log	1 pg.
6) Geomembrane Trial Seam Log	4 pgs.
7) Geomembrane Seam Log	2 pgs.
8) Geomembrane Vacuum / Air Lance Test Log	1 pg.
9) Geomembrane Defect/Repair Log	1 pg.
10) EL 6040 Mill Certificates	2 pgs.
11) Installation Warranty	2 pgs.





CERTIFICATE OF ACCEPTANCE OF SOIL SUBGRADE SURFACE

PROJECT NAME: Polishing Pond
PROJECT NUMBER: 07C-046
OWNER: Baffinlands
LOCATION: Mory River

I, the undersigned, a duly appointed representative of Layfield Environmental Systems Ltd. (LESL), have visually observed the soil subgrade described below, and found it to be an acceptable surface on which to install geomembrane.

This certification is based on observations of the surface of the subgrade only. No subterranean inspections or tests have been performed by Layfield Environmental Systems, and LESL makes no representations or warranties regarding conditions which may exist below the surface of the subgrade. Layfield Environmental Systems accepts no responsibility for conformance of the subgrade to this project's specifications.

The soil subgrade accepted on this date refers to its present condition. Any changes in the subgrade condition that result from the effects of inclement weather and/or other forces beyond the control of Layfield Environmental Systems and remedial work to correct the resulting deficiencies, will be the direct responsibility of the General Contractor.

Area Being Accepted: Area under Panels 1, 2, 3 & 4, Uncompacted
sand with rock, subject to sluffing. Used LP-16
as an underlay

LAYFIELD ENVIRONMENTAL SYSTEMS REPRESENTATIVE:

Date: August 30, 2007
Signature: [Signature]
Name: Allan McKinnon
Title: Project Supervisor

OWNERS REPRESENTATIVE:

Date: Aug 30 / 2007
Signature: [Signature]
Name: ROLAND LANDRY
Title: PROJECT MANAGER
Company: BAFFINLAND MINING

CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE

PROJECT NAME: Polishing Pond
PROJECT NUMBER: 07C2046 DATE: August 30 2007
OWNER: Baffinlands
LOCATION: Mary River.

Scope of Installation(s): THE WORK

Installed approx 2690 sq. metres of LP-16 as an underlay.
Installed, welded, repaired/tested approx 3659 sq metres
of EL. 6040.

Part 1 – LAYFIELD ENVIRONMENTAL SYSTEMS LTD.

I, Allan McKinnon, a duly appointed representative of Layfield Environmental Systems Ltd. (LESL), have visually observed the installations (as outlined above), and have found the Work to be complete and free of defects and declare that the Work was completed in accordance with the project specifications, Layfield Environmental Systems' QC program and the terms and conditions of the contract.

Layfield Environmental Systems Representative:

Name: Allan McKinnon
Title: Project Supervisor
Date: August 30, 2007 Signature: [Signature]

Part 2 – OWNER (or Representative)

I, Roland Landry, a duly appointed representative of BAFFINLANDS
IRON MINES, do hereby take over and accept the installation(s)
described above, and confirm that the work has been completed in accordance with the project
specifications and the terms of the conditions of the contract.

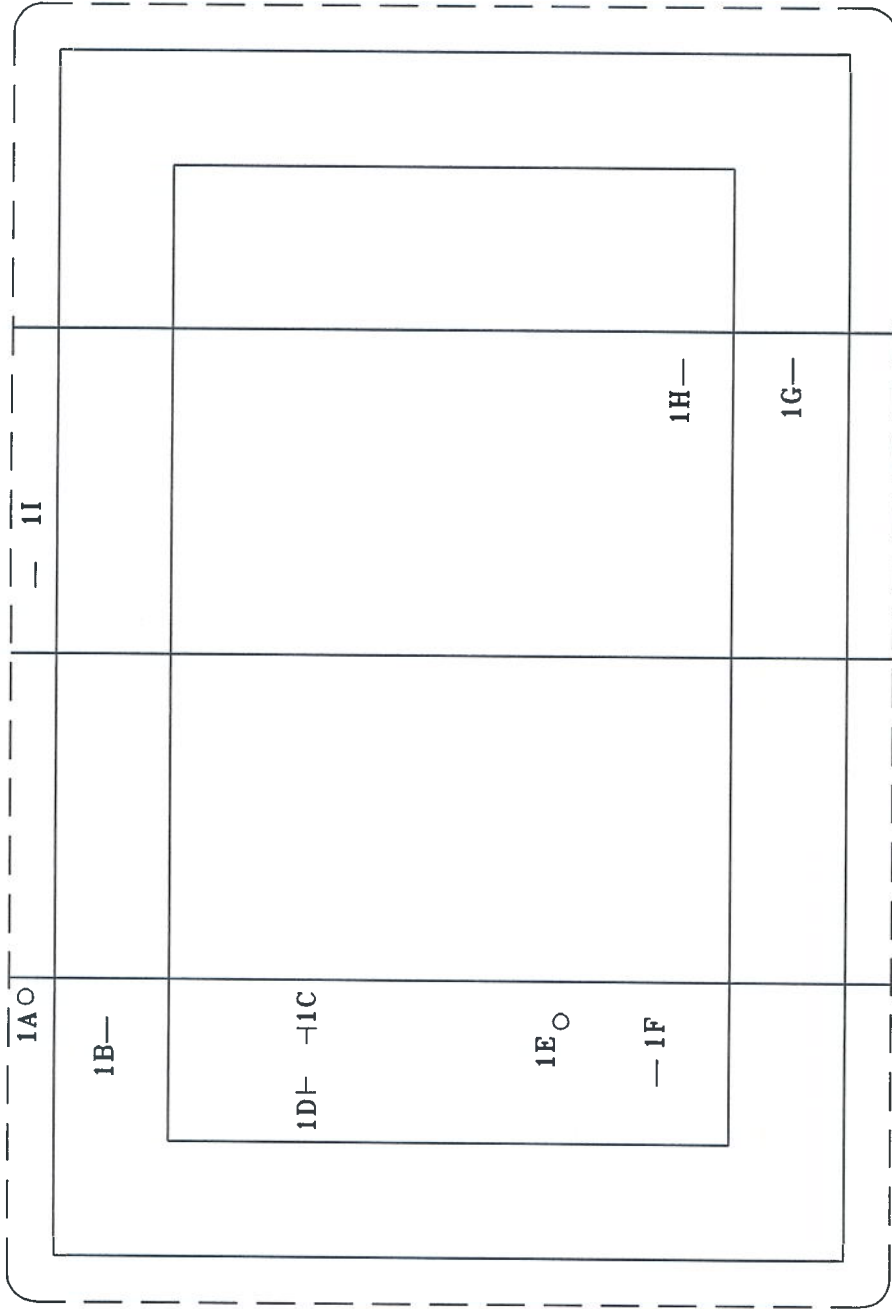
I have evaluated and measured the work together with the Layfield Environmental Systems representative, and agree that the measurements shown are both true and correct, and that the installation has met our approval.

Owners Representative:

Name: ROLAND LANDRY
Title: PROJ. MANAGER
Company: BAFFINLANDS IRON MINES
Date: Aug 30/07 Signature: [Signature]

Comments: Informed Baffinlands on how to fill anchor
trench and to leave slack in liner.

No.	REVISIONS	DATE (MM/DD/YY)	BY
1	AS-BUILT REVISED	09/20/07	AH



POLISHING POND
EL 6040
AS-BUILT
BAFFINLAND
MARY RIVER, NWT

Quote No.	PROJECT No.
P8055	07C-046

DWG:	OF 1	SCALE : N.T.S.
DWN: AH	CHKD:	APPD:

DATE: 09/20/07	REVISION: 0
----------------	-------------

- T WELDS
- MANUFACTURER/DELIVERY DAMAGE
- INSTALLATION DAMAGE

GEOSYNTHETICS INVENTORY LOG

PROJECT NUMBER: 076-046
OWNER: Baffin land
LOCATION: Mary River

PROJECT TITLE: Mary River Polishing Pond
CONTRACTOR: Raymac
SHEET NUMBER: 1

MATERIAL TYPE: GEOMEMBRANE GEONET GEOTEXTILE OTHER _____
 DATE OF ARRIVAL: Aug 19/07 DATE OF INVENTORY: _____
 UNLOADING METHOD: Fork lift INVENTORY BY: Adam Gandy
 PRODUCT TYPE: Enviro liner CONDITION IN TRUCK: _____
 MATERIAL MANUFACTURER: Layfield

[illegible]

SUBMITTED BY: _____

DATE: _____

GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: 07C-046 PROJECT TITLE: Polishing Pond
 OWNER: Baffin land CONTRACTOR: _____
 LOCATION: Mary River

GEOMEMBRANE: SECONDARY PRIMARY CLOSURE OTHER _____
 SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: _____ DATE: _____
 SHEET NUMBER: 1

DEPLOYMENT EQUIPMENT: _____

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____
PANEL/ROLL NUMBER DEPLOYED LENGTH AMBIENT AIR TEMP. VISUAL OBSERVATION OBSERVED OVERLAP CHECKED BY	<u>1</u> _____ _____ <u>4"</u> _____	<u>2</u> _____ _____ <u>4"</u> _____	<u>3</u> _____ _____ <u>4"</u> _____
ADJACENT PANEL	N = _____ E = _____ S = _____ W = <u>2</u>	N = _____ E = <u>1</u> S = _____ W = <u>3</u>	N = _____ E = <u>2</u> S = _____ W = <u>4</u>
MEASURED THICKNESS	LEAD L SIDE R SIDE TRAIL _____ _____ _____ _____	LEAD L SIDE R SIDE TRAIL _____ _____ _____ _____	LEAD L SIDE R SIDE TRAIL _____ _____ _____ _____

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____
PANEL/ROLL NUMBER DEPLOYED LENGTH AMBIENT AIR TEMP. VISUAL OBSERVATION OBSERVED OVERLAP CHECKED BY	<u>4</u> _____ _____ <u>4"</u> _____	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
ADJACENT PANEL	N = _____ E = <u>3</u> S = _____ W = _____	N = _____ E = _____ S = _____ W = _____	N = _____ E = _____ S = _____ W = _____
MEASURED THICKNESS	LEAD L SIDE R SIDE TRAIL _____ _____ _____ _____	LEAD L SIDE R SIDE TRAIL _____ _____ _____ _____	LEAD L SIDE R SIDE TRAIL _____ _____ _____ _____

SUBMITTED BY: _____

DATE: _____



PROJECT TITLE: Polishing Pond

CONTRACTOR:

SHEET NUMBER: 3

TX - # = EXTRUSION

TS - # = SOLVENT

[illegible]

LAYFIELD ENVIRONMENTAL SYSTEMS

SUBMITTED BY: Edwin
DATE: Aug 30/07



LOCATION: Mary River

TS - # = SOLVENT

[illegible]

LAYFIELD ENVIRONMENTAL SYSTEMS

LS FORM 3

SUBMITTED BY: Amey
DATE: Aug 30 / 07



PROJECT NUMBER: 076-046

PROJECT NUMBER: 076-046

OWNER: Baffinland

LOCATION: Mary River

PROJECT TITLE: Polishing Pond

CONTRACTOR:

SHEET NUMBER: 2

TF - # FUSION

✓ TX - # = EXTRUSION

TS - # = SOLVENT

[illegible]

LS FORM 3

LAYFIELD ENVIRONMENTAL SYSTEMS

SUBMITTED BY: Chloe
DATE: Aug 30/07



PROJECT NUMBER: 07C-046

PROJECT NUMBER: 07C-046

OWNER: Baffinland

LOCATION: Mary River

CONTRACTOR:

SHEET NUMBER: 4

TF - # FUSION

TX - # = EXTRUSION

TS-# = SOLVENT

LS FORM 3

LAYFIELD ENVIRONMENTAL SYSTEMS

SUBMITTED BY: AK
DATE: Aug 30/07



LAYFIELD

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 07C-046

OWNER: Baffinland

LOCATION: Mary River

PROJECT TITLE: Polishing Pond

CONTRACTOR: _____

PASSING TRIAL SEAMS

✓ FUSION

EXTRUSION

SOLVENT

NO.	TIME	TECH ID
<u>1</u>	<u>12:30</u>	<u>AG</u>

SHEET NUMBER: 2

DATE: Aug 30 2007

SEAM NUMBER	SEAM SECTION * START POINT FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES		APPROX. LENGTH WELDED	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE	
						DIGITAL SET WEDGE OR BARREL	DIGITAL SET WEDGE OR BARREL					TEST DATE	CHECKED BY
<u>2 / 3</u>	<u>SEOS - NOES</u>	<u>12:45 PM</u>	<u>10°C</u>	<u>AG</u>	<u>60%</u>	<u>420°C</u>	-	<u>38.72m</u>		<u>AG</u>		<u>Aug 30/07</u>	<u>AG</u>
<u>3 / 4</u>	<u>SEOS - NEOS</u>	<u>1:30 PM</u>	<u>10°C</u>	<u>AG</u>	<u>60%</u>	<u>420°C</u>	-	<u>36.84m</u>		<u>AG</u>		<u>Aug 30/07</u>	<u>AG</u>
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
/	-					-	-						
DAILY TOTAL													

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.

SUBMITTED BY: _____

DATE: _____



GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 07C-0416

OWNER: Baffinland

LOCATION: Mary River

PROJECT TITLE: Mary River Polishing Pond

CONTRACTOR: Raymac

PASSING TRIAL SEAMS

☒ FUSION

☐ EXTRUSION

☐ SOLVENT

NO.	TIME	TECH ID
1	15:30	AG

SHEET NUMBER: 1

DATE: Aug 29/07

SEAM NUMBER	SEAM SECTION * START POINT	FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES		APPROX. LENGTH WELDED	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE	
							DIGITAL SET WEDGE OR BARREL	DIGITAL SET WEDGE OR BARREL					TEST DATE	CHECKED BY
1 / 2	S	- N	4:00PM		AG	60%	420°C	-	38.72m		AG		Aug 29/07	AG
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
/	-	-					-	-						
DAILY TOTAL														

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.

SUBMITTED BY: _____

DATE: _____

LAYFIELD ENVIRONMENTAL SYSTEMS



PROJECT TITLE: Polishing Pond

CONTRACTOR:

DATE: Aug 30/07

AIR LANCE

SHEET NUMBER:

[illegible]

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT LOCATION ON THE SEAM

LAYFIELD ENVIRONMENTAL SYSTEMS

SUBMITTED BY:
DATE:



GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT TITLE: Polishing Pond

CONTRACTOR:

SHEET NUMBER:

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.

REPAIR TYPE: P - PATCH, C - CAP, RS - RECONSTRUCTED SEAM, G&W - GRIND/WELD
 MD - MANUFACTURER/DELIVERY DAMAGE
 OTHER: _____

** COLUMNS TO BE USED BY THE PROJECT SUPERVISOR OR LEAD TECHNICIAN ONLY.

LPL FORM 7

SUBMITTED BY: William G. Smith
DATE: Aug 30/07



LAYFIELD

**SHOP
QC**

S/O 203795

TRACEABILITY REQUIRED

Special Fabrication Instructions		In-Process Inspection			
Description of Operations/Procedures:		#1	#2	#3	Completed
Job Desc.	Mary River Polishing Pond				
Customer:	Baffinland Iron Mines				
Sales Person:	JL				
Date:	8-Jun-07				
Material Type:	EL 6040 black 148" wide 40 mil				
Prod Code:	0				
Fab Code:	03LE1040				
Length	175.2				
Width	60.0				

Roll Tag #	#	Piece #	Liner# / Panels	Quantity	Repairs
35378	E22996	015	1/1 + 135'		
35248	E22947	015	1/54'		
35378	E22996	010	1/3		
35378	E22996	010	2/2 + 126'		
35378	E22996	009	2/60' + 2		
35378	E22996	009	3/3 + 50'		
35378	E22996	015	3/126' + 1		
35378	E22996	015	4/4		
35378	E22996	013	4/2 S/S		

Shear (Seam #)					Peel (Seam #)					Tech/Date (Seam #)				
Liner #	1	4			1L	R	4L	R	L	R	L	R	1	4
P8055	1	85	83		72	69	71	72					MO	100
P8055	2	79	81		68	72	65	69					MO	MO
P8055	3	86	76		64	69	66	68					MO	MO
P8055	4	79	84		65	68	70	66					MO	BIA
P8055	5	70	76		70	70	54	55					BIA	BIA
P8055														
P8055														
P8055														
P8055														
P8055														
P8055														

Inspections	#1	None	#2	MO	June 22/07	#3	Final
-------------	----	------	----	----	------------	----	-------



LAYFIELD ENVIRONMENTAL SYSTEMS LTD.
11603 – 180 Street Edmonton, Alberta T5S 2H6 Canada

Phone: (780) 453-6731

Web: www.layfieldgroup.com

Fax: (780) 452-9495

E-Mail: edm@layfieldgroup.com

Toll Free: 1 800 840-2884

INSTALLATION WARRANTY

Layfield Reference No: (Job#) 07C-046

LAYFIELD ENVIRONMENTAL SYSTEMS LTD. (LAYFIELD) hereby warrants to Baffinlands; (the Customer) that the work performed by LAYFIELD on the Installation described as Polishing Ponds (EL 6040, LP16) will:

1. Meet the field seam specifications set out in the contract between LAYFIELD and the Customer (as amended by LAYFIELD's quotation), all workmanship to meet the requirements of LAYFIELD's Field Installation Quality Assurance program, and be free of defects at the time of completion of the Installation; and
2. Be free of installation defects from the date of the completion of the Installation (08/20/07) for a period of 1 year so long as the completed Installation is used for the purposes and in the manner for which the Installation was designed.

Should damage or defects within the scope of the aforesaid warranties occur, LAYFIELD shall repair the damage or defects, PROVIDED THAT the area to be repaired must first be made ready by the Customer and be in a clean, dry, unencumbered condition, free from all water, soil, sludge, residuals, and liquids of any kind.

To enable LAYFIELD to investigate and determine the cause of any alleged damage or defect, notice and details of any claim hereunder must be presented in writing to LAYFIELD within thirty (30) days after the alleged damage or defect was first noticed or observed. Failure to provide such notice and details shall invalidate all warranties provided hereunder.

The liability of LAYFIELD under the aforesaid warranties are subject to the following conditions:

- a. LAYFIELD's only obligation shall be to repair or replace any defective workmanship and in no event shall LAYFIELD be liable for any amount in excess of the cost of the Installation;
- b. No allowance will be made for repairs, replacements or alterations made by the Customer unless with the prior written consent of LAYFIELD;
- c. The warranties hereunder extend only to the Customer and are not transferable;
- d. The warranties hereunder shall not apply to any damage or defects resulting from misuse, mechanical abuse by machinery, equipment or persons, excessive pressures or stresses, exposure of the completed Installation of harmful chemicals, unusual weather conditions, casualty catastrophe such as (but not limited to) earthquake, flood, hail, tornado, or any other act of God;

- e. Under no circumstances shall LAYFIELD be liable for any special, direct, indirect, or consequential damages including the loss of use of the Installation howsoever caused;
- f. All liner materials provided for the Installation are covered by a separate warranty provided by the material manufacturer and LAYFIELD shall not be liable for material failure claims hereunder;
- g. The warranties hereunder are given in lieu of all other warranties, express, implied, statutory, or otherwise, and the Customer expressly waives all other warranties and claims whatsoever except those specifically given herein, and the Customer acknowledges that the warranties hereunder are accepted in preference to and to the exclusion of any or all other warranties; and
- h. An Installation Warranty will not be provided for lining projects unless the installation is completed by LAYFIELD personnel or designated Layfield subcontractors.

LAYFIELD ENVIRONMENTAL SYSTEMS LTD.



James Teppan VP & General Manager

➤ **APPENDIX 2**

○ **PHOTOS**



Photo 1: Sewage Treatment Building (Tanks-A-Lot System)



Photo 2: Storage Tank



Photo 3: Pre-treatment tanks and aeration chamber at the bottom of the photo



Photo 4: Aeration, final process and UV tanks



Photo 5: Final pumping chamber going to the PWSP