

APPENDIX X

ASSAY CERTIFICATES

BC Geological Survey
Assessment Report
32995b



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Page: 1
Finalized Date: 27- APR- 2011
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CERTIFICATE TR11053204

Project: Kutcho Project
P.O. No.: 113773
This report is for 51 Pulp samples submitted to our lab in Terrace, BC, Canada on 15- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
ATTN: VIVIENNE MCLENNAN
IN C/O SHERWOOD COPPER CORPORATION
SUITE 860 - 625 HOWE STREET
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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Project: Kutcho Project

CERTIFICATE OF ANALYSIS TR11053204

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
E974851		0.02
E974852		0.04
E974853		0.07
E974854		0.38
E974855		0.30
E974856		0.15
E974857		0.53
E974858		0.69
E974859		0.86
E974860		1.18
E974961		1.53
E974863		0.92
E974864		1.39
E974865		1.45
E974867		1.65
E974868		1.60
E974870		0.53
E974871		0.06
E974896		11.75
E974897		11.00
E974898		7.07
E974899		7.13
E974901		8.04
E974902		7.99
E974903		9.09
E974904		5.14
E974905		6.24
E974906		4.96
E974908		6.07
E974909		6.46
E974910		7.81
E974911		5.33
E974912		3.00
E974913		3.53
E974915		3.63
E974916		2.84
E974917		2.67
E974918		3.78
E974919		2.46
E974921		1.49



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CERTIFICATE OF ANALYSIS TR11053204

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
E974922		1.50
E974923		1.33
E974924		2.21
E974925		3.09
E974926		3.32
E974927		2.26
E974929		1.40
E974930		3.40
E974931		1.37
E974933		1.12
E974934		1.44



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CERTIFICATE TR11053205

Project: Kutcho
P.O. No.: 113773

This report is for 3 Pulp samples submitted to our lab in Terrace, BC, Canada on 18- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11053205

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
E974940		0.02
E974949		1.27
E974985		0.54



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CERTIFICATE TR11053206

Project: Kutcho
P.O. No.: 113773
This report is for 38 Pulp samples submitted to our lab in Terrace, BC, Canada on 18- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11053206

Sample Description	Method Analyte Units LOR	S- IR08 5 % 0.01
I131294		1.52
I131295		3.10
I131296		1.08
I131297		1.82
I131298		0.97
I131299		2.19
I131300		0.83
I131301		15.40
I131302		2.88
I131303		21.2
I131305		6.50
I131306		23.6
I131307		19.65
I131309		30.2
I131311		16.75
I131312		12.70
I131314		24.4
I131315		10.80
I131317		10.65
I131318		3.70
I131319		3.68
I131322		5.99
I131323		13.65
I131324		10.40
I131325		5.48
I131326		14.40
I131327		7.64
I131328		7.32
I131329		8.26
I131330		7.14
I131331		12.80
I131333		5.17
I131334		3.85
I131335		6.00
I131336		5.82
I131337		4.94
I131338		5.52
I131339		5.47



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CERTIFICATE TR11063710

Project: Kutcho
P.O. No.: 113773
This report is for 20 Pulp samples submitted to our lab in Terrace, BC, Canada on 15- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

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Colin Ramshaw, Vancouver Laboratory Manager



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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11063710

Sample Description	Method Analyte Units LOR	S- IR08 % 0.01
E974950		0.90
E974952		0.01
E974954		11.85
E974955		36.7
E974956		37.2
E974958		33.6
E974960		40.2
E974961		36.4
E974962		38.2
E974964		40.2
E974965		39.8
E974966		28.5
E974968		25.4
E974969		16.70
E974970		14.90
E974971		9.15
E974973		10.30
E974974		19.20
E974975		15.15
E974976		14.50



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CERTIFICATE TR11063711

Project: Kutcho
P.O. No.: 113773
This report is for 17 Pulp samples submitted to our lab in Terrace, BC, Canada on 18- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11063711

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
E974872		0.14
E974873		0.04
E974874		0.03
E974875		1.34
E974878		9.67
E974880		29.3
E974881		38.5
E974883		41.7
E974884		26.0
E974886		35.6
E974887		11.40
E974888		10.35
E974889		9.14
E974891		9.01
E974892		10.45
E974893		6.98
E974894		8.41



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CERTIFICATE TR11063712

Project: Kutcho
 P.O. No.: 113773
 This report is for 7 Pulp samples submitted to our lab in Terrace, BC, Canada on 18- APR- 2011.
 The following have access to data associated with this certificate:

DANI ALLDRICK BRIAN WILLET	VIVIENNE MCLENNAN	BRAD MERCER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
 ATTN: VIVIENNE MCLENNAN
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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11063712

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
E974977 E974978 E974979 E974981 E974982		13.45 14.95 13.05 8.93 11.10
E974983 E974984		13.50 15.20



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CERTIFICATE TR11063714

Project: Kutcho
P.O. No.: 113773
This report is for 33 Pulp samples submitted to our lab in Terrace, BC, Canada on 18- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

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Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11063714

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1131251		0.80
1131252		2.02
1131253		3.02
1131254		0.16
1131255		0.05
1131256		0.86
1131257		5.59
1131258		3.36
1131259		22.5
1131260		34.6
1131261		36.8
1131262		39.0
1131264		37.6
1131268		38.5
1131269		42.1
1131271		38.8
1131273		16.40
1131274		20.5
1131275		25.4
1131276		18.75
1131277		10.10
1131278		7.61
1131280		12.95
1131282		7.60
1131283		6.12
1131284		12.85
1131286		16.15
1131287		13.95
1131289		9.17
1131290		13.95
1131291		12.00
1131292		15.80
1131293		14.30



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CERTIFICATE TR11063715

Project: Kutcho
P.O. No.: 113773
This report is for 43 Pulp samples submitted to our lab in Terrace, BC, Canada on 18- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11063715

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
I131388		2.44
I131389		2.55
I131391		32.4
I131392		20.9
I131393		14.45
I131394		39.2
I131395		6.58
I131396		0.62
I131397		9.93
I131400		47.3
I131401		42.0
I131402		38.7
I131404		42.2
I131405		35.5
I131406		22.5
I131407		27.7
I131408		16.95
I131409		14.15
I131411		35.3
I131412		19.20
I131413		12.05
I131414		19.95
I131415		21.2
I131416		20.1
I131417		17.45
I131418		18.85
I131420		11.80
I131421		9.55
I131422		14.30
I131423		12.00
I131424		18.05
I131426		16.85
I131427		15.75
I131428		18.80
I131429		14.30
I131430		13.30
I131431		8.38
I131432		9.77
I131433		14.95
I131434		7.01



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CERTIFICATE OF ANALYSIS TR11063715

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1131435		6.86
1131436		12.15
1131437		6.42



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CERTIFICATE TR11063716

Project: Kutcho
 P.O. No.: 113773
 This report is for 43 Pulp samples submitted to our lab in Terrace, BC, Canada on 18- APR- 2011.
 The following have access to data associated with this certificate:
 DAN ALLDRICK VIVIENNE MCLENNAN BRAD MERCER
 BRIAN WILLET

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11063716

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1131028		2.07
1131029		13.30
1131031		12.95
1131032		24.0
1131033		12.50
1131034		25.5
1131036		13.15
1131039		42.1
1131040		35.9
1131042		29.3
1131044		34.7
1131045		31.0
1131046		24.5
1131047		12.55
1131048		20.1
1131049		24.3
1131050		25.7
1131051		18.10
1131052		19.20
1131053		33.7
1131054		28.5
1131056		24.5
1131057		17.35
1131058		16.80
1131059		16.55
1131060		24.7
1131062		13.95
1131063		18.30
1131065		18.70
1131066		18.65
1131067		18.00
1131068		16.10
1131069		13.45
1131071		13.95
1131072		13.65
1131073		17.75
1131074		9.80
1131075		11.95
1131076		10.70
1131077		9.43



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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11063716

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1131078		9.64
1131026		0.51
1131027		3.00



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CERTIFICATE TR11063717

Project: Kutcho
 P.O. No.: 113773
 This report is for 3 Pulp samples submitted to our lab in Terrace, BC, Canada on 18- APR- 2011.
 The following have access to data associated with this certificate:
 DAN I ALLDRICK VIVIENNE MCLENNAN BRAD MERCER
 BRIAN WILLET

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

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Signature: 
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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11063717

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
E974946		1.16
E974947		0.02
E974948		0.95



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CERTIFICATE TR11063718

Project: Kutcho
 P.O. No.: 113773
 This report is for 28 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.
 The following have access to data associated with this certificate:


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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11063718

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1131351		7.46
1131353		0.17
1131356		31.9
1131358		20.3
1131359		37.2
1131360		42.8
1131362		41.4
1131363		35.6
1131364		34.4
1131365		26.7
1131367		24.7
1131368		23.7
1131369		29.5
1131371		25.5
1131372		11.85
1131374		10.35
1131375		12.25
1131376		9.26
1131377		10.00
1131378		7.70
1131379		9.48
1131380		10.50
1131381		7.70
1131382		7.07
1131383		9.97
1131385		8.44
1131386		6.24
1131387		11.50



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CERTIFICATE TR11063719

Project: Kutcho
 P.O. No.: 113773
 This report is for 30 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11063719

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
I131651		2.64
I131652		1.32
I131653		0.49
I131654		2.59
I131655		6.36
I131656		4.26
I131657		15.60
I131659		35.9
I131661		31.6
I131663		27.3
I131664		22.5
I131666		21.4
I131667		34.9
I131670		23.8
I131671		23.9
I131673		18.90
I131674		13.60
I131676		28.3
I131677		25.5
I131678		8.71
I131679		21.5
I131681		12.70
I131682		10.45
I131683		13.55
I131684		11.15
I131685		11.05
I131687		11.80
I131689		13.45
I131690		6.40
I131691		14.70



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CERTIFICATE TR11065070

Project: Kutcho
P.O. No.: 113773
This report is for 31 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

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CERTIFICATE OF ANALYSIS TR11065070

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
I131692		1.10
I131693		3.47
I131694		29.3
I131695		29.5
I131696		34.1
I131697		29.6
I131699		3.38
I131700		25.6
I131703		5.85
I131705		12.70
I131706		16.60
I131707		13.70
I131709		16.50
I131710		5.08
I131711		6.58
I131712		11.70
I131713		7.53
I131714		16.45
I131715		22.2
I131716		26.9
I131717		39.9
I131718		30.5
I131719		38.9
I131721		24.5
I131722		19.00
I131723		1.25
I131726		6.32
I131727		11.50
I131728		7.37
I131729		3.66
I131731		3.93



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CERTIFICATE TR11065071

Project: Kutcho
P.O. No.: 113773
This report is for 65 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065071

Sample Description	Method Analyte Units LOR	S- IR08 5 % 0.01
I131214		0.71
I131215		0.67
I131216		0.45
I131217		0.32
I131218		0.12
I131219		2.30
I131220		29.9
I131221		28.5
I131223		20.0
I131224		0.14
I131225		0.07
I131229		15.65
I131231		11.75
I131232		12.15
I131233		13.75
I131234		14.75
I131236		16.35
I131237		16.55
I131238		20.0
I131239		8.20
I131240		11.45
I131241		9.17
I131242		12.50
I131243		10.25
I131244		7.16
I131246		9.30
I131247		13.60
I131248		13.45
I131249		8.50
I131250		8.55
I134501		7.27
I134502		10.95
I134503		5.21
I134504		7.23
I134505		5.97
I134506		5.95
I134508		8.95
I134509		8.63
I134510		10.85
I134511		1.72



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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065071

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1134512		3.76
1134513		5.07
1134514		4.13
1134515		5.11
1134516		7.80
1134518		5.72
1134519		9.89
1134520		2.48
1134521		3.79
1134522		14.80
1134524		5.35
1134525		3.73
1134526		8.55
1134527		8.65
1134528		7.22
1134529		5.49
1134531		3.56
1134532		5.68
1134533		3.30
1134534		6.01
1134535		3.44
1134536		5.82
1134537		3.98
1134538		5.13
1134539		4.60



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CERTIFICATE TR11065072

Project: Kutcho
P.O. No.: 113773
This report is for 6 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

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CERTIFICATE OF ANALYSIS TR11065072

Sample Description	Method Analyte Units LOR	S IR08 S % 0.01
1131079		1.28
1131080		0.41
1131081		1.19
1131082		0.67
1131083		0.26
1131084		1.06



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CERTIFICATE TR11065073

Project: Kutcho
 P.O. No.: 113773
 This report is for 26 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.
 The following have access to data associated with this certificate:

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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

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CERTIFICATE OF ANALYSIS TR11065073

Sample Description	Method Analyte Units LOR	5- IR08 S % 0.01
1131614		0.92
1131615		1.35
1131616		0.21
1131617		19.35
1131618		17.40
1131620		0.79
1131622		11.70
1131623		18.75
1131624		10.75
1131626		28.8
1131627		41.6
1131628		34.9
1131629		30.1
1131631		31.0
1131632		26.4
1131633		13.20
1131636		7.55
1131637		10.10
1131638		10.15
1131640		7.99
1131641		5.43
1131642		4.74
1131644		13.00
1131645		4.73
1131646		4.68
1131647		3.42



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CERTIFICATE TR11065074

Project: Kutcho
 P.O. No.: 113773
 This report is for 36 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.
 The following have access to data associated with this certificate:

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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
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CERTIFICATE OF ANALYSIS TR11065074

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1131350		5.67
1131351		3.51
1131352		19.60
1131555		13.25
1131556		17.60
1131558		18.65
1131560		37.1
1131561		28.8
1131563		24.8
1131565		22.2
1131567		26.3
1131568		24.5
1131569		22.4
1131570		9.00
1131571		13.55
1131572		10.40
1131573		16.70
1131574		10.15
1131575		12.00
1131576		10.30
1131577		11.45
1131578		13.60
1131579		13.05
1131580		16.15
1131581		13.10
1131582		9.26
1131583		8.70
1131584		7.00
1131585		3.51
1131586		9.05
1131587		4.80
1131588		8.59
1131589		6.96
1131590		6.11
1131591		3.26
1131592		4.28



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CERTIFICATE TR11065075

Project: Kutcho
 P.O. No.: 113773
 This report is for 35 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.
 The following have access to data associated with this certificate:

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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
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Signature:


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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065075

Sample Description	Method Analyte Units LOR	5- IR08 S % 0.01
I131982		0.19
I131983		0.23
I131984		0.90
I131985		18.25
I131986		5.87
I131988		46.7
I131989		39.5
I131990		36.9
I131991		37.1
I131992		37.9
I131994		35.8
I132000		10.80
I134608		6.99
I134609		4.84
I134610		2.68
I134611		2.74
I134612		3.51
I134613		7.24
I134614		5.01
I134616		7.90
I134620		4.44
I134621		3.85
I134622		4.51
I134623		4.49
I134624		3.33
I134625		5.49
I134626		4.84
I134627		3.33
I134628		3.12
I134630		3.80
I134632		3.27
I134634		2.59
I134636		3.81
I134637		3.35
I134638		4.88



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Page: 1
Finalized Date: 30- APR- 2011
Account: LTU

CERTIFICATE TR11065077

Project: Kutcho
P.O. No.: 113773
This report is for 24 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065077

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1134684		20.3
1134685		2.14
1134686		13.55
1134687		31.6
1134688		37.2
1134690		37.0
1134691		37.3
1134693		36.9
1134694		31.7
1134696		33.6
1134699		8.25
1134700		6.96
1134702		2.72
1134703		5.04
1134704		4.90
1134706		3.16
1134708		2.38
1134709		3.89
1134710		2.50
1134712		3.97
1134713		3.27
1134715		6.31
1134682		0.74
1134683		1.43



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CERTIFICATE TR11065078

Project: Kutcho
 P.O. No.: 113773
 This report is for 39 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.
 The following have access to data associated with this certificate:
 DANI ALLDRICK VIVIENNE MCLENNAN BRAD MERCER
 BRIAN WILLET

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065078

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1131502		1.01
1131503		0.48
1131505		33.3
1131506		34.5
1131507		33.2
1131508		34.9
1131510		32.7
1131511		34.0
1131512		37.2
1131513		34.8
1131515		23.4
1131516		8.12
1131518		19.30
1131519		20.2
1131520		11.40
1131521		12.65
1131522		10.15
1131523		12.35
1131524		8.89
1131525		6.83
1131526		2.27
1131527		3.16
1131528		2.33
1131529		2.01
1131530		2.30
1131531		1.70
1131532		1.89
1131533		5.97
1131534		1.10
1131535		2.62
1131536		8.40
1131537		3.14
1131538		3.98
1131539		3.17
1131540		2.48
1131541		1.96
1131542		1.13
1131543		0.94
1131544		1.76



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CERTIFICATE TR11065079

Project: Kutcho
P.O. No.: 113773
This report is for 19 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065079

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1131732		3.75
1131733		4.67
1131734		4.74
1131735		4.68
1131736		3.17
1131737		5.85
1131738		6.19
1131739		6.01
1131740		6.96
1131741		6.97
1131742		3.02
1131743		6.49
1131744		3.42
1131745		3.36
1131746		9.16
1131747		7.21
1131748		7.61
1131749		1.73
1131750		2.82



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Page: 1
Finalized Date: 28- APR- 2011
Account: LTU

CERTIFICATE TR11065840

Project: Kutcho
P.O. No.: 113773
This report is for 6 Pulp samples submitted to our lab in Terrace, BC, Canada on 19- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
ATTN: VIVIENNE MCLENNAN
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Account: LTU

Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065840

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1137639		2.93
1137640		6.05
1137641		3.70
1137642		3.15
1137643		2.88
1137644		4.36



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Page: 1
Finalized Date: 30- APR- 2011
Account: LTU

CERTIFICATE TR11065841

Project: Kutcho
P.O. No.: 113773

This report is for 30 Pulp samples submitted to our lab in Terrace, BC, Canada on 20- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

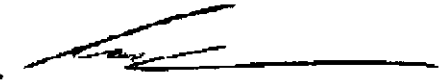
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
ATTN: VIVIENNE MCLENNAN
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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065841

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
I134645		0.17
I134646		0.19
I134647		0.60
I134648		0.74
I134649		2.44
I134651		25.9
I134652		28.5
I134654		38.8
I134656		5.27
I134657		4.54
I134658		3.49
I134659		3.92
I134660		3.90
I134661		2.92
I134662		3.16
I134663		2.73
I134665		6.49
I134666		3.42
I134667		3.99
I134669		5.42
I134670		4.83
I134671		5.73
I134672		4.86
I134673		5.95
I134675		6.57
I134676		6.01
I134677		6.63
I134679		3.62
I134680		3.29
I134681		6.81



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CERTIFICATE TR11065842

Project: Kutcho
P.O. No.: 113773
This report is for 21 Pulp samples submitted to our lab in Terrace, BC, Canada on 20- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
ATTN: VIVIENNE MCLENNAN
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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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 Account: LTU

Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065842

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
I134716		0.19
I134717		0.23
I134718		0.86
I134719		2.73
I134720		14.20
I134721		30.0
I134724		9.51
I134725		2.73
I134727		6.69
I134729		7.09
I134730		6.86
I134731		5.60
I134732		4.94
I134733		4.94
I134734		5.31
I134735		3.08
I134736		11.80
I134738		3.61
I134740		5.56
I134742		5.74
I134744		2.85



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Page: 1
Finalized Date: 30- APR- 2011
Account: LTU

CERTIFICATE TR11065843

Project: Kutcho
P.O. No.: 113773
This report is for 33 Pulp samples submitted to our lab in Terrace, BC, Canada on 20- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
ATTN: VIVIENNE MCLENNAN
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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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 Total # Pages: 2 (A)
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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065843

Sample Description	Method Analyte Units LOR	5- IR08 S % 0.01
1131823		1.57
1131824		5.63
1131825		0.19
1131826		5.89
1131827		5.51
1131828		2.99
1131830		13.25
1131831		15.55
1131833		0.85
1131834		6.91
1131835		8.51
1131837		5.84
1131838		8.84
1131840		15.55
1131841		9.47
1131842		12.75
1131843		9.07
1131844		10.75
1131845		6.45
1131846		2.80
1131847		2.95
1131848		2.58
1131850		4.58
1131851		6.31
1131852		7.65
1131854		7.11
1131855		5.46
1131856		10.35
1131858		3.15
1131859		3.65
1131860		9.03
1131862		5.50
1131863		4.70



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Page: 1
Finalized Date: 4- MAY- 2011
Account: LTU

CERTIFICATE TR11065844

Project: Kutcho
P.O. No.: 113773
This report is for 43 Pulp samples submitted to our lab in Terrace, BC, Canada on 21- APR- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRIAN WILLET

VIVIENNE MCLENNAN

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis
SPL- 33	Split Sample - scoop split

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO

To: KUTCHO COPPER CORP.
ATTN: VIVIENNE MCLENNAN
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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
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 Plus Appendix Pages
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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065844

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
I134540		10.55
I134541		2.02
I134542		35.0
I134543		38.8
I134544		28.9
I134545		26.4
I134547		NSS
I134548		17.20
I134549		27.2
I134551		40.2
I134552		21.8
I134553		25.0
I134555		38.5
I134559		32.7
I134560		NSS
I134561		42.3
I134562		41.7
I134563		39.8
I134564		39.1
I134566		31.7
I134568		27.0
I134569		19.75
I134570		20.1
I134571		7.24
I134572		2.01
I134573		1.94
I134575		2.49
I134576		2.24
I134577		3.28
I134578		1.44
I134579		4.47
I134581		1.75
I134582		2.58
I134583		1.44
I134584		2.08
I134585		5.01
I134587		3.51
I134588		4.42
I134590		2.27
I134591		1.47

***** See Appendix Page for comments regarding this certificate *****



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Project: Kutcho

CERTIFICATE OF ANALYSIS TR11065844

Sample Description	Method Analyte Units LOR	S- IR08 S % 0.01
1134593		2.91
1134594		1.95
1134595		2.35

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS TR11065844

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.



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Page: 1
Finalized Date: 24- JUL- 2011
Account: LTU

CERTIFICATE TR1123122

Project: KCC- 2011- 02
P.O. No.: 114694
This report is for 42 Sediment samples submitted to our lab in Terrace, BC, Canada on 8- JUL- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
TARAS NAHNYBIDA
BRIAN WILLET

VIVIENNE MCLENNAN
DANIEL NG

BRAD MERCER
ACCOUNTS PAYABLE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LOG- 22	Sample login - Rcd w/o BarCode
WEI- 21	Received Sample Weight
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41L	51 anal. aqua regia ICPMS

To: KUTCHO COPPER CORP.
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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-JUL-2011
 Account: LTU

Project: KCC-2011-02

CERTIFICATE OF ANALYSIS TR1123122

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
TAC-1		0.0015	0.123	1.81	7.01	<10	437	0.83	0.11	0.77	0.37	35.2	15.7	35.2	0.53	33.1
TAC-2		0.0004	0.153	1.28	4.04	<10	324	0.56	0.08	0.89	0.46	22.6	8.2	24.3	0.39	23.4
TAC-3		0.0018	0.151	1.43	7.20	<10	468	0.74	0.08	0.95	0.96	34.0	12.8	25.6	0.39	27.9
TAC-4		0.0012	0.162	1.41	5.51	<10	392	0.60	0.08	0.99	0.82	26.1	8.3	27.8	0.37	26.1
TAC-5		0.0019	0.069	1.25	6.62	<10	295	0.49	0.07	0.52	0.52	25.6	11.4	29.8	0.30	21.4
TAC-6		0.0016	0.083	1.26	8.00	<10	417	0.54	0.07	0.61	0.93	30.6	13.2	28.8	0.31	21.1
TAC-7		0.0017	0.150	1.40	8.54	<10	580	0.65	0.07	0.85	1.17	32.0	13.2	23.5	0.30	22.7
TAC-8		0.0023	0.231	1.47	5.01	<10	465	0.62	0.08	1.12	0.73	26.7	8.2	22.4	0.39	26.3
TAC-9		0.0013	0.156	1.45	12.75	<10	516	0.71	0.07	0.88	0.85	32.2	12.0	21.7	0.36	25.6
TAC-10		0.0020	0.080	1.69	18.20	<10	1065	0.91	0.08	0.89	2.83	66.6	39.8	26.6	0.30	29.6
TAC-11		0.0023	0.260	1.31	8.02	<10	322	0.67	0.08	1.11	0.64	22.4	8.3	18.8	0.43	44.5
TAC-12		0.0022	0.263	1.38	3.13	<10	307	0.60	0.08	1.11	0.30	18.30	5.4	19.6	0.42	45.0
TAC-13		0.0024	0.268	1.36	3.33	<10	296	0.53	0.08	1.26	0.37	16.95	6.5	19.0	0.47	49.3
TAC-14		0.0016	0.202	1.57	5.81	<10	479	0.66	0.08	0.82	0.61	26.5	8.7	25.6	0.41	25.9
TAC-15		0.0024	0.201	1.35	5.56	<10	388	0.55	0.07	0.73	0.59	24.7	8.3	23.0	0.37	26.5
TAC-16		0.0013	0.153	1.86	9.07	<10	423	0.88	0.11	0.68	0.52	38.5	15.1	30.8	0.41	44.3
TAC-17		0.0037	0.431	2.54	12.35	<10	793	1.23	0.13	0.92	2.36	70.6	16.4	35.7	0.57	39.4
TAC-101		0.0027	0.100	1.70	5.67	<10	252	0.72	0.10	0.63	0.37	32.9	13.1	34.6	0.54	31.4
TAC-102		0.0019	0.154	1.95	9.27	<10	574	0.83	0.10	1.15	1.08	45.6	18.7	33.8	0.41	29.2
TAC-103		0.0020	0.170	1.87	5.54	<10	474	0.77	0.10	1.29	0.72	30.8	11.1	30.8	0.41	27.3
TAC-104		0.0024	0.152	1.61	4.42	<10	403	0.73	0.09	1.51	0.38	28.3	9.3	29.3	0.41	25.0
TAC-105		0.0018	0.221	1.07	3.78	<10	633	0.60	0.06	3.20	0.63	15.80	8.3	18.0	0.31	30.3
TAC-106		0.0003	<0.002	1.87	<0.02	<10	342	<0.05	<0.01	0.98	<0.01	<0.02	<0.1	27.0	<0.05	0.08
TAC-107		0.0007	0.172	1.25	3.01	<10	304	0.48	0.06	0.91	0.48	19.95	6.5	21.0	0.29	19.60
TAC-108		<0.0002	<0.002	1.40	<0.02	<10	288	<0.05	<0.01	0.53	<0.01	<0.02	<0.1	24.4	<0.05	0.06
TAC-109		0.0015	0.259	1.57	4.16	<10	331	0.49	0.08	0.55	0.28	17.70	6.2	23.5	0.39	24.6
TAC-110		0.0018	0.196	1.62	6.71	<10	363	0.64	0.08	0.58	0.66	28.0	10.0	23.1	0.39	26.8
TAC-111		0.0015	0.197	1.69	5.42	<10	388	0.63	0.09	0.66	0.65	24.8	8.0	24.2	0.41	26.8
TAC-112		0.0021	0.221	1.68	5.33	<10	375	0.61	0.08	0.67	0.51	24.8	7.6	23.5	0.45	28.5
TAC-113		0.0028	0.202	1.80	0.09	<10	363	0.66	0.08	0.58	0.58	26.8	0.5	23.8	0.43	26.8
TAC-114		0.0269	0.553	1.61	4.79	<10	348	0.60	0.09	0.57	0.43	21.0	0.7	22.5	0.43	25.9
TAC-115		0.0016	0.216	1.84	5.74	<10	412	0.71	0.09	0.71	0.72	29.4	10.6	28.0	0.43	30.2
TAC-116		0.0013	0.093	1.48	6.72	<10	299	0.53	0.07	0.42	0.56	26.4	11.4	28.8	0.32	23.0
TAC-117		0.0019	0.187	1.68	5.56	<10	368	0.63	0.08	0.57	0.57	25.8	9.0	25.8	0.42	25.6
TAC-118		0.0022	0.257	1.86	4.97	<10	410	0.66	0.09	0.71	0.57	22.8	7.6	24.4	0.49	29.0
TAC-119		0.0011	0.152	1.80	7.52	<10	399	0.68	0.08	0.61	0.88	30.9	13.0	29.7	0.40	30.7
TAC-120		0.0029	0.288	1.99	6.11	<10	454	0.73	0.10	0.82	0.86	27.8	8.4	27.0	0.51	33.0
TAC-121		0.0029	0.391	2.32	5.28	<10	528	0.88	0.09	0.94	1.03	32.0	8.6	27.8	0.58	36.7
TAC-122		0.0078	0.378	2.33	5.92	<10	522	0.87	0.10	0.89	0.97	29.2	8.6	27.4	0.65	37.7
TAC-123		0.0030	0.364	2.41	6.19	<10	529	0.95	0.11	0.86	0.81	29.6	8.8	27.9	0.62	39.5

***** See Appendix Page for comments regarding this certificate *****



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 Total # Pages: 3 (A - D)
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 Finalized Date: 24-JUL-2011
 Account: LTU

Project: KCC-2011-02

CERTIFICATE OF ANALYSIS TR11123122

Sample Description	Method Analyte Units LOR	ME-MS41L Fe %	ME-MS41L Ga ppm	ME-MS41L Ge ppm	ME-MS41L Hf ppm	ME-MS41L Hg ppm	ME-MS41L In ppm	ME-MS41L K %	ME-MS41L La ppm	ME-MS41L Li ppm	ME-MS41L Mg %	ME-MS41L Mn ppm	ME-MS41L Mo ppm	ME-MS41L Na %	ME-MS41L Nb ppm	ME-MS41L Ni ppm
TAC-1		3.29	6.25	0.07	0.09	0.038	0.033	0.09	15.7	15.4	0.64	1140	1.11	0.02	3.18	40.0
TAC-2		2.10	4.21	<0.05	0.09	0.069	0.022	0.07	13.1	12.1	0.43	676	0.73	<0.01	2.22	24.7
TAC-3		2.88	4.86	0.05	0.07	0.056	0.023	0.07	15.9	13.0	0.48	2250	1.68	0.01	2.61	28.4
TAC-4		2.70	4.22	0.06	0.09	0.073	0.025	0.07	14.3	11.5	0.45	1370	1.12	0.01	2.17	24.1
TAC-5		3.04	4.33	<0.05	0.07	0.039	0.024	0.06	9.5	11.6	0.65	1580	1.19	0.01	1.31	28.1
TAC-6		3.41	4.53	0.06	0.07	0.022	0.020	0.06	12.1	11.6	0.56	2800	1.62	0.01	1.80	29.0
TAC-7		3.51	4.51	0.05	0.08	0.060	0.020	0.06	14.8	11.7	0.51	4130	2.33	<0.01	2.17	28.2
TAC-8		2.63	4.40	0.06	0.10	0.088	0.023	0.07	17.2	11.4	0.43	1940	1.14	<0.01	2.51	23.3
TAC-9		4.37	4.82	0.06	0.10	0.066	0.025	0.06	18.0	11.9	0.46	3100	2.49	<0.01	2.55	24.5
TAC-10		5.36	5.97	0.07	0.12	0.036	0.029	0.09	17.1	12.7	0.65	10050	8.82	0.01	2.32	45.7
TAC-11		2.22	4.29	0.05	0.08	0.079	0.023	0.08	15.4	11.3	0.42	990	1.33	<0.01	2.56	19.8
TAC-12		1.95	3.93	0.06	0.10	0.076	0.020	0.08	16.6	11.6	0.40	303	0.66	<0.01	2.23	17.2
TAC-13		2.01	4.00	0.05	0.08	0.071	0.023	0.10	13.9	11.7	0.42	572	0.91	<0.01	1.88	17.8
TAC-14		2.50	4.94	0.05	0.14	0.169	0.023	0.08	15.8	12.0	0.48	1300	1.70	<0.01	2.27	25.5
TAC-15		2.33	4.15	0.05	0.11	0.052	0.023	0.07	14.9	10.3	0.45	1130	1.42	<0.01	2.03	22.2
TAC-16		3.42	6.19	0.07	0.14	0.049	0.032	0.11	18.8	14.6	0.67	1790	2.76	<0.01	3.02	30.8
TAC-17		4.23	7.18	0.10	0.17	0.105	0.041	0.12	30.3	18.5	0.64	4080	4.09	0.01	2.40	45.1
TAC-101		2.89	5.66	0.07	0.16	0.052	0.028	0.10	14.6	15.4	0.74	489	0.73	0.01	1.89	36.8
TAC-102		3.52	6.09	0.07	0.09	0.061	0.031	0.09	15.0	17.3	0.59	3660	2.00	0.01	2.35	41.8
TAC-103		2.89	5.76	0.05	0.10	0.071	0.030	0.08	15.7	16.2	0.52	1400	1.17	0.01	2.88	32.4
TAC-104		2.40	5.12	0.05	0.12	0.066	0.026	0.08	14.4	14.0	0.47	1220	0.79	0.01	2.53	30.4
TAC-105		1.88	3.19	0.05	0.13	0.157	0.018	0.06	10.4	7.3	0.26	1800	1.94	<0.01	2.55	22.8
TAC-106		2.69	<0.05	0.05	<0.02	0.007	<0.005	0.07	<0.2	<0.1	0.44	435	<0.01	0.01	<0.05	<0.1
TAC-107		1.87	3.67	0.10	0.11	0.062	0.020	0.06	10.4	9.6	0.40	616	0.77	0.02	2.83	24.0
TAC-108		2.45	<0.05	0.05	<0.02	<0.005	<0.005	0.07	<0.2	<0.1	0.48	632	<0.01	0.01	<0.05	<0.1
TAC-109		2.16	4.01	0.10	0.08	0.066	0.030	0.07	12.1	10.3	0.42	274	0.72	0.01	1.83	24.5
TAC-110		2.62	4.39	0.11	0.09	0.066	0.032	0.08	15.0	11.1	0.49	1020	1.49	0.01	1.94	27.8
TAC-111		2.53	4.15	0.10	0.08	0.044	0.033	0.08	14.2	10.3	0.47	850	1.21	0.01	1.87	25.2
TAC-112		2.36	4.32	0.11	0.09	0.069	0.030	0.08	16.2	10.9	0.44	636	1.22	0.01	1.80	25.4
TAC-113		2.62	4.33	0.11	0.08	0.049	0.036	0.07	13.6	10.6	0.49	1100	1.49	0.01	1.64	27.2
TAC-114		2.33	4.09	0.10	0.09	0.048	0.028	0.07	12.9	9.9	0.44	508	1.03	0.01	1.66	23.5
TAC-115		2.95	4.61	0.12	0.08	0.067	0.043	0.08	17.1	11.3	0.58	1310	1.92	0.02	1.56	29.6
TAC-116		3.11	4.33	0.10	0.05	0.028	0.034	0.07	9.7	10.4	0.63	1180	1.39	0.02	0.99	27.8
TAC-117		2.73	4.07	0.11	0.07	0.042	0.031	0.08	13.2	10.8	0.52	936	1.29	0.02	1.48	27.0
TAC-118		2.45	4.36	0.11	0.08	0.062	0.030	0.09	16.0	11.2	0.48	637	1.05	0.02	1.78	27.3
TAC-119		3.25	4.63	0.13	0.07	0.046	0.036	0.09	15.9	12.3	0.67	1580	1.97	0.02	1.36	35.5
TAC-120		2.61	4.69	0.12	0.10	0.091	0.036	0.09	19.2	12.2	0.52	990	1.34	0.01	1.91	29.9
TAC-121		2.67	5.33	0.13	0.11	0.111	0.036	0.10	22.8	13.2	0.54	961	1.22	0.01	2.17	32.9
TAC-122		2.82	5.57	0.14	0.13	0.091	0.037	0.10	22.6	13.1	0.52	1030	1.36	0.01	2.49	31.9
TAC-123		2.88	5.67	0.13	0.13	0.099	0.048	0.10	22.5	14.2	0.55	918	1.63	0.01	2.38	34.3

***** See Appendix Page for comments regarding this certificate *****



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 Total # Pages: 3 (A - D)
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 Finalized Date: 24-JUL-2011
 Account: LTU

Project: KCC-2011-02

CERTIFICATE OF ANALYSIS TR11123122

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	
		P %	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Tl %	Tl ppm
		0.001	0.01	0.1	0.001	0.01	0.005	0.1	0.1	0.2	0.2	0.01	0.01	0.1	0.001	0.02
TAC-1		0.064	7.72	8.2	0.001	0.01	0.375	6.0	1.3	0.8	66.9	0.01	0.05	1.6	0.078	0.07
TAC-2		0.063	5.19	6.9	0.003	0.03	0.254	4.2	1.4	0.5	70.5	<0.01	0.03	0.8	0.035	0.07
TAC-3		0.063	5.36	6.9	0.003	0.04	0.299	4.5	1.8	0.6	77.1	0.01	0.04	0.8	0.042	0.08
TAC-4		0.069	5.28	6.4	0.002	0.04	0.280	4.1	1.5	0.6	74.1	<0.01	0.04	0.7	0.033	0.07
TAC-5		0.055	4.72	4.8	0.001	0.01	0.334	4.4	0.7	0.5	47.3	<0.01	0.03	1.2	0.047	0.05
TAC-6		0.059	4.62	5.4	0.002	0.01	0.283	4.2	0.9	0.5	56.7	0.01	0.04	1.0	0.043	0.08
TAC-7		0.067	4.73	6.2	0.004	0.04	0.221	4.1	1.5	0.5	76.3	0.01	0.03	0.7	0.034	0.09
TAC-8		0.070	4.48	7.5	0.004	0.06	0.233	4.1	2.2	0.6	87.4	0.01	0.03	0.6	0.030	0.08
TAC-9		0.071	4.70	6.9	0.004	0.05	0.228	4.7	1.5	0.6	78.3	0.01	0.04	0.8	0.031	0.08
TAC-10		0.069	8.30	6.3	0.001	0.02	0.401	5.0	1.4	0.6	66.2	0.01	0.05	1.4	0.039	0.18
TAC-11		0.079	5.20	8.4	0.002	0.06	0.372	3.4	1.5	0.6	103.5	0.01	0.02	0.4	0.033	0.07
TAC-12		0.081	4.32	8.2	0.001	0.05	0.229	3.4	1.6	0.6	99.6	0.01	0.04	0.4	0.031	0.06
TAC-13		0.094	5.51	10.2	0.003	0.07	0.315	3.2	1.9	0.5	118.5	0.01	0.06	0.4	0.034	0.07
TAC-14		0.069	4.87	7.5	0.002	0.03	0.269	4.7	1.8	0.6	64.5	<0.01	0.03	0.8	0.030	0.06
TAC-15		0.068	4.58	6.6	0.003	0.02	0.288	4.1	1.4	0.5	50.5	<0.01	0.05	0.9	0.033	0.08
TAC-16		0.078	7.01	9.7	0.001	0.01	0.367	5.6	1.4	0.7	56.9	0.01	0.05	1.1	0.047	0.09
TAC-17		0.084	7.70	10.5	0.003	0.03	0.400	8.3	2.5	0.7	80.0	<0.01	0.06	1.4	0.029	0.17
TAC-101		0.069	6.29	7.7	0.002	0.02	0.390	6.6	0.9	0.6	55.1	<0.01	0.04	2.4	0.058	0.08
TAC-102		0.074	7.76	9.9	0.002	0.03	0.319	5.9	1.7	0.8	92.1	<0.01	0.08	1.0	0.045	0.11
TAC-103		0.072	6.17	9.8	0.003	0.05	0.256	5.6	1.4	0.7	95.7	<0.01	0.02	1.0	0.047	0.08
TAC-104		0.077	5.61	8.2	0.005	0.06	0.277	4.9	1.5	0.7	93.7	<0.01	0.04	1.3	0.035	0.06
TAC-105		0.095	2.72	5.6	0.022	0.22	0.616	2.3	5.5	0.5	157.0	0.01	0.02	0.3	0.013	0.06
TAC-106		0.089	<0.01	<0.1	<0.001	0.06	<0.005	<0.1	<0.1	<0.2	<0.2	<0.01	<0.01	<0.1	0.048	<0.02
TAC-107		0.062	4.50	6.0	0.002	0.05	0.200	3.5	1.2	0.6	68.8	0.01	0.01	0.5	0.054	0.05
TAC-108		0.055	<0.01	<0.1	<0.001	0.03	<0.005	<0.1	0.1	<0.2	<0.2	<0.01	<0.01	<0.1	0.032	<0.02
TAC-109		0.056	4.37	7.1	0.001	0.03	0.178	4.8	1.0	0.6	37.5	<0.01	0.02	0.7	0.029	0.08
TAC-110		0.054	6.20	7.5	0.001	0.03	0.212	5.0	1.3	0.7	42.2	<0.01	0.02	0.8	0.029	0.08
TAC-111		0.058	5.21	7.4	0.002	0.04	0.184	4.7	1.4	0.7	42.0	<0.01	<0.01	0.6	0.028	0.08
TAC-112		0.057	5.21	7.8	0.001	0.04	0.238	5.1	1.4	0.7	45.0	<0.01	0.01	0.7	0.026	0.07
TAC-113		0.054	5.42	7.1	0.001	0.03	0.257	5.1	1.0	0.9	40.7	<0.01	0.02	0.8	0.029	0.07
TAC-114		0.055	4.70	7.1	0.001	0.04	0.217	4.7	1.1	0.6	37.3	<0.01	0.02	0.7	0.026	0.07
TAC-115		0.064	5.97	7.3	<0.001	0.06	0.296	5.9	1.6	0.6	44.8	<0.01	0.03	0.8	0.030	0.10
TAC-116		0.047	5.57	5.4	<0.001	0.05	0.318	4.9	0.8	0.5	37.4	<0.01	0.02	1.3	0.044	0.06
TAC-117		0.059	5.28	6.8	0.001	0.07	0.246	4.9	1.1	0.6	39.8	<0.01	0.02	0.9	0.032	0.09
TAC-118		0.067	5.01	8.2	0.001	0.08	0.237	5.2	1.5	0.6	44.7	<0.01	0.03	0.7	0.026	0.09
TAC-119		0.069	5.94	6.9	0.001	0.07	0.300	5.9	0.9	0.5	46.8	<0.01	0.03	1.0	0.033	0.08
TAC-120		0.072	5.94	8.5	0.001	0.09	0.735	5.4	1.5	0.7	50.7	<0.01	0.02	0.7	0.026	0.11
TAC-121		0.081	5.35	9.7	0.001	0.08	0.285	6.1	1.9	0.7	56.7	<0.01	0.02	0.7	0.023	0.11
TAC-122		0.079	5.72	10.3	0.001	0.07	0.267	5.9	1.7	0.8	54.1	<0.01	0.02	0.7	0.026	0.11
TAC-123		0.083	5.61	10.1	0.001	0.04	0.282	6.3	1.7	1.0	54.5	<0.01	0.04	0.8	0.023	0.11

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 Account: LTU

Project: KCC- 2011- 02

CERTIFICATE OF ANALYSIS TR11123122

Sample Description	Method Analyte Units LOR	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	WEI- 21	
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Recvd Wt. kg
		0.05	1	0.0001	0.05	0.1	0.5	0.02
TAC- 1		0.86	56	0.0898	14.75	73.7	4.1	0.64
TAC- 2		0.70	37	0.0676	13.35	54.6	2.9	0.72
TAC- 3		1.02	49	0.0741	17.35	63.1	2.8	0.70
TAC- 4		0.91	50	0.0707	15.35	62.6	2.9	0.94
TAC- 5		0.44	57	0.0849	8.19	60.2	2.7	0.72
TAC- 6		0.58	59	0.0765	11.60	65.0	2.4	0.78
TAC- 7		0.81	47	0.641	15.05	69.6	2.8	0.62
TAC- 8		1.02	38	0.0809	19.05	65.6	3.4	0.90
TAC- 9		1.03	45	0.0692	18.10	66.4	3.5	0.34
TAC- 10		0.85	77	0.0835	12.80	84.3	3.7	0.84
TAC- 11		1.02	38	0.0737	20.0	60.2	2.7	0.64
TAC- 12		0.94	32	0.0626	21.3	54.9	2.8	0.66
TAC- 13		0.91	32	0.0648	17.35	60.8	2.4	0.58
TAC- 14		1.19	45	0.443	15.70	61.3	3.8	0.68
TAC- 15		0.99	43	0.0686	15.25	57.9	3.2	0.56
TAC- 16		1.64	64	0.0838	20.2	68.6	4.5	0.68
TAC- 17		2.28	66	0.0925	31.8	93.7	5.3	0.68
TAC- 101		0.83	58	0.0831	12.70	83.5	6.8	0.68
TAC- 102		0.82	57	0.0889	14.85	80.9	3.3	0.64
TAC- 103		0.93	47	0.0678	15.35	71.8	3.6	0.84
TAC- 104		0.79	43	0.0740	11.15	59.9	4.5	0.88
TAC- 105		2.40	22	0.0557	12.75	26.8	4.8	0.84
TAC- 106		<0.05	39	0.0001	<0.05	90.6	<0.5	0.96
TAC- 107		0.69	31	0.0644	11.75	62.6	3.9	0.92
TAC- 108		<0.05	48	0.0002	<0.05	59.6	<0.5	0.96
TAC- 109		0.68	42	0.0703	16.85	59.5	2.3	0.74
TAC- 110		0.68	47	0.0733	20.3	65.1	2.6	1.38
TAC- 111		0.74	47	0.0819	19.75	69.1	2.3	0.88
TAC- 112		0.79	45	0.0683	23.8	64.2	2.5	1.08
TAC- 113		0.73	48	0.0756	19.75	65.7	2.1	1.22
TAC- 114		0.75	45	0.0874	20.8	61.3	2.3	0.84
TAC- 115		0.88	52	0.0900	26.9	74.1	2.2	1.06
TAC- 116		0.47	59	0.0728	10.15	71.1	1.7	1.26
TAC- 117		0.66	51	0.0705	15.90	73.8	1.9	1.28
TAC- 118		0.81	44	0.100	22.7	75.4	2.4	0.96
TAC- 119		0.59	56	0.0683	18.50	84.3	2.0	1.20
TAC- 120		0.92	45	0.366	26.7	84.3	2.7	1.04
TAC- 121		0.97	46	0.0812	33.1	91.3	3.3	0.98
TAC- 122		1.07	47	0.0794	29.9	93.0	3.3	0.94
TAC- 123		1.06	44	0.0815	34.8	101.0	3.7	1.08

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CERTIFICATE OF ANALYSIS TR11123122

Sample Description	Method Analyte Units LOR	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	
		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
TAC- 124		0.0031	0.363	2.43	5.85	<10	503	0.87	0.10	0.94	0.88	29.2	9.7	27.0	0.81	37.7
TAC- 125		0.0032	0.314	2.39	7.60	<10	563	1.01	0.10	0.88	1.47	35.8	11.9	29.0	0.65	41.4

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CERTIFICATE OF ANALYSIS TR1123122

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.02	0.005	0.005	0.01	0.2	0.1	0.01	1	0.01	0.01	0.05	0.1
TAC- 124		3.23	5.51	0.14	0.12	0.093	0.050	0.10	21.4	13.0	0.57	1160	1.75	0.01	2.39	30.8
TAC- 125		3.28	6.18	0.14	0.11	0.092	0.038	0.10	21.0	14.3	0.56	2110	1.91	0.02	2.55	36.1

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CERTIFICATE OF ANALYSIS TR1123122

Sample Description	Method Analyte Units LOR	ME-MS41L P %	ME-MS41L Pb ppm	ME-MS41L Rb ppm	ME-MS41L Re ppm	ME-MS41L S %	ME-MS41L Sb ppm	ME-MS41L Sc ppm	ME-MS41L Se ppm	ME-MS41L Sn ppm	ME-MS41L Sr ppm	ME-MS41L Ta ppm	ME-MS41L Te ppm	ME-MS41L Th ppm	ME-MS41L Tl %	ME-MS41L Tl ppm
		0.001	0.01	0.1	0.001	0.01	0.005	0.1	0.1	0.2	0.2	0.01	0.01	0.1	0.001	0.02
TAC-124		0.087	5.59	10.3	0.002	0.06	0.278	5.9	1.7	0.8	53.4	<0.01	0.02	0.7	0.024	0.10
TAC-125		0.083	6.45	11.5	0.001	0.04	0.278	5.9	1.5	0.8	55.8	<0.01	0.02	0.7	0.030	0.13

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CERTIFICATE OF ANALYSIS TR1123122

Sample Description	Method Analyte Units LOR	ME-MS41L U ppm	ME-MS41L V ppm	ME-MS41L W ppm	ME-MS41L Y ppm	ME-MS41L Zn ppm	ME-MS41L Zr ppm	WEI-21 Recvd Wt. kg
TAC-124		1.10	46	0.0988	31.4	96.9	3.2	0.88
TAC-125		1.06	54	0.0769	29.6	103.5	2.9	0.84

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CERTIFICATE OF ANALYSIS TR11123122

Method	CERTIFICATE COMMENTS
ME- MS41L	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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CERTIFICATE TR1127036

Project:
 P.O. No.: 114694
 This report is for 62 Soil samples submitted to our lab in Terrace, BC, Canada on 6-JUL-2011.
 The following have access to data associated with this certificate:

DANI ALLDRICK TARAS NAHNYBIDA BRIAN WILLET	VIVIENNE MCLENNAN DANIEL NG	BRAD MERCER ACCOUNTS PAYABLE
--	--------------------------------	---------------------------------

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LOG- 22	Sample login - Rcd w/o BarCode
WEI- 21	Received Sample Weight
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41L	51 anal. aqua regia ICPMS

To: KUTCHO COPPER CORP.
 ATTN: ACCOUNTS PAYABLE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11127036

Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
TAS- 1		0.54	0.0005	0.057	0.88	2.82	<10	130.5	0.21	0.07	0.23	0.25	13.40	3.7	15.6	0.40
TAS- 2		0.56	0.0005	0.106	1.40	4.08	<10	265	0.51	0.08	0.38	0.25	21.2	6.1	23.7	0.63
TAS- 3		0.76	0.0009	0.080	1.06	3.75	<10	170.0	0.45	0.08	0.59	0.14	20.3	5.8	22.9	0.38
TAS- 4		0.74	0.0023	0.121	1.41	5.16	<10	195.0	0.58	0.09	0.72	0.26	26.1	7.1	31.7	0.43
TAS- 5		0.56	0.0035	0.551	3.10	8.65	<10	571	2.04	0.12	0.93	0.39	119.0	10.3	36.1	0.77
TAS- 6		0.50	0.0151	0.113	1.73	4.32	<10	221	0.53	0.14	0.47	0.12	20.4	5.4	23.8	0.86
TAS- 7		0.58	0.0009	0.057	1.26	2.59	<10	167.0	0.39	0.13	0.22	0.08	16.60	3.0	15.7	0.61
TAS- 8		0.94	0.0017	0.083	1.19	3.12	<10	159.5	0.41	0.07	0.34	0.06	19.55	4.3	17.8	0.56
TAS- 9		0.80	0.0007	0.127	1.36	3.85	<10	243	0.53	0.09	0.46	0.13	21.5	6.4	22.2	0.51
TAS- 10		0.76	0.0004	0.039	1.09	3.60	<10	131.0	0.29	0.09	0.22	0.05	15.40	4.3	19.9	0.56
TAS- 11		0.90	0.0008	0.030	0.94	4.44	<10	166.0	0.37	0.06	0.30	0.04	20.2	5.3	22.1	0.37
TAS- 12		0.76	0.0006	0.069	1.24	4.38	<10	148.5	0.35	0.08	0.15	0.08	15.55	4.5	21.1	0.58
TAS- 13		0.48	0.0003	0.078	1.56	4.15	<10	147.0	0.44	0.12	0.08	0.13	13.25	5.1	22.7	0.71
TAS- 14		1.04	<0.0002	0.032	1.19	4.12	<10	136.0	0.40	0.08	0.14	0.08	21.1	4.4	18.5	0.41
TAS- 15		0.94	0.0007	0.021	0.94	2.96	<10	128.0	0.36	0.06	0.28	0.04	18.80	4.8	21.6	0.39
TAS- 16		0.58	0.0017	0.083	1.67	5.45	<10	211	1.01	0.11	0.40	0.10	39.5	5.7	24.0	0.65
TAS- 17		0.64	0.0012	0.152	2.39	2.66	<10	136.0	1.15	0.08	1.10	0.14	39.2	19.2	15.6	2.28
TAS- 18		0.56	0.0016	0.218	1.46	4.54	<10	272	0.65	0.09	0.77	0.42	27.8	6.8	24.2	0.57
TAS- 19		0.30	0.0015	0.224	1.63	4.90	<10	170.0	0.52	0.18	0.22	0.20	20.8	5.5	21.3	0.78
TAS- 20		0.46	0.0006	0.103	0.88	2.91	<10	131.5	0.23	0.14	0.17	0.16	17.55	3.0	14.6	0.69
TAS- 21		0.54	<0.0002	0.175	1.56	4.40	<10	168.5	0.39	0.14	0.16	0.18	16.60	4.6	20.5	0.68
TAS- 22		0.64	0.0015	0.071	1.69	5.32	<10	217	0.49	0.10	0.22	0.18	21.8	6.6	23.2	0.53
TAS- 23		0.52	0.0050	0.052	1.52	4.22	<10	197.0	0.45	0.08	0.23	0.12	16.20	6.2	20.9	0.47
TAS- 24		0.42	0.0003	0.115	1.49	4.89	<10	105.0	0.30	0.16	0.12	0.14	14.95	4.2	17.5	0.60
TAS- 25		0.46	0.0007	0.100	1.90	4.80	<10	146.0	0.56	0.12	0.14	0.20	16.75	6.6	24.4	0.65
TAS- 26		0.68	0.0010	0.052	1.66	5.55	<10	273	0.69	0.13	0.26	0.12	24.7	8.4	30.9	0.85
TAS- 27		0.66	0.0014	0.060	1.22	4.12	<10	174.5	0.46	0.08	0.47	0.10	20.4	6.7	25.9	0.34
TAS- 28		0.54	0.0043	0.584	4.62	14.70	<10	1065	2.42	0.22	1.15	0.24	137.0	18.4	47.5	1.08
TAS- 29		0.42	0.0009	0.130	0.89	4.33	<10	190.5	0.22	0.17	0.17	0.42	16.60	4.3	17.2	0.53
TAS- 30		0.58	0.0013	0.084	1.00	2.72	<10	178.5	0.22	0.08	0.21	0.16	14.00	3.8	15.1	0.37
TAS- 31		0.54	0.0011	0.050	1.00	4.12	<10	153.0	0.38	0.07	0.23	0.14	18.15	4.8	17.6	0.41
TAS- 32		0.58	0.0016	0.048	0.98	3.75	<10	152.0	0.26	0.07	0.24	0.15	16.55	5.8	18.9	0.32
TAS- 33		0.60	0.0014	0.074	1.22	4.11	<10	197.5	0.40	0.08	0.34	0.12	24.5	6.3	22.8	0.42
TAS- 34		0.54	0.0012	0.167	1.66	5.33	<10	341	0.55	0.18	0.65	0.41	28.1	7.1	26.0	0.59
TAS- 35		0.62	0.0029	0.222	1.85	9.34	<10	338	0.86	0.13	0.93	0.78	41.2	12.8	29.3	0.47
TAS- 36		0.56	0.0033	0.250	1.74	6.80	<10	372	0.71	0.12	0.66	0.17	34.5	9.3	32.3	0.53
TAS- 101		0.76	0.0016	0.060	1.30	3.83	<10	163.0	0.42	0.09	0.25	0.17	23.5	6.8	25.3	0.48
TAS- 102		0.72	0.0025	0.062	1.44	5.28	<10	132.5	0.52	0.09	0.15	0.15	21.9	6.6	23.1	0.43
TAS- 103		0.74	0.0013	0.071	1.61	3.29	<10	169.5	0.37	0.12	0.28	0.13	13.85	7.7	17.5	0.58
TAS- 104		0.98	0.0014	0.050	1.37	4.10	<10	206	0.48	0.10	0.44	0.07	24.2	6.6	26.6	0.41

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CERTIFICATE OF ANALYSIS TR11127036

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
TAS-1		6.99	1.59	4.06	0.07	<0.02	0.009	0.016	0.05	6.3	5.8	0.31	197	0.80	0.01	2.59
TAS-2		15.75	1.89	4.15	0.08	0.05	0.033	0.020	0.06	10.2	9.9	0.45	363	0.94	0.01	2.43
TAS-3		11.10	1.84	3.75	0.09	0.08	0.016	0.017	0.05	9.2	7.3	0.42	266	0.70	0.01	2.91
TAS-4		23.7	2.13	4.13	0.11	0.16	0.030	0.025	0.07	14.0	8.0	0.48	221	1.76	0.02	2.86
TAS-5		102.5	3.38	7.95	0.32	0.25	0.195	0.051	0.12	83.5	18.3	0.63	820	5.88	0.02	3.92
TAS-6		17.85	2.49	6.61	0.09	0.03	0.015	0.028	0.05	11.8	12.7	0.41	296	2.48	0.01	7.01
TAS-7		7.66	1.82	6.03	0.07	0.02	0.012	0.021	0.04	8.5	8.4	0.27	212	1.53	0.01	7.10
TAS-8		13.25	1.64	3.29	0.08	0.07	0.013	0.021	0.05	8.2	8.2	0.37	213	0.62	0.02	2.45
TAS-9		33.6	2.04	4.55	0.09	0.05	0.027	0.023	0.07	11.5	11.2	0.39	425	0.84	0.01	4.81
TAS-10		9.16	1.51	4.73	0.07	0.04	0.016	0.016	0.05	7.6	6.9	0.32	140	0.83	0.02	4.55
TAS-11		13.10	1.73	3.00	0.08	0.07	0.014	0.015	0.04	10.5	5.4	0.36	277	0.72	0.02	1.20
TAS-12		13.95	1.75	3.99	0.08	0.02	0.025	0.017	0.04	7.7	6.7	0.31	185	0.64	0.01	1.32
TAS-13		8.11	2.19	6.66	0.07	0.16	0.023	0.024	0.04	6.8	9.2	0.28	177	1.46	0.01	6.90
TAS-14		12.70	1.71	4.40	0.09	0.03	0.028	0.018	0.04	10.5	5.6	0.29	288	0.94	0.01	3.67
TAS-15		10.80	1.52	3.14	0.08	0.03	0.018	0.012	0.04	9.8	5.3	0.35	186	0.66	0.01	1.91
TAS-16		26.5	2.30	5.80	0.14	0.08	0.033	0.032	0.06	28.4	10.0	0.43	341	1.21	0.02	7.20
TAS-17		277	3.87	7.80	0.12	0.15	0.015	0.024	0.47	14.7	20.0	1.39	1720	1.54	0.01	6.69
TAS-18		54.0	2.28	4.40	0.10	0.11	0.060	0.030	0.10	14.9	9.7	0.44	586	0.86	0.01	2.56
TAS-19		14.10	2.39	6.49	0.08	0.02	0.031	0.025	0.06	9.6	9.8	0.38	379	1.37	0.01	5.52
TAS-20		6.16	1.41	6.07	0.09	<0.02	0.013	0.014	0.05	9.0	5.2	0.24	208	1.13	0.01	8.31
TAS-21		10.40	2.20	7.93	0.08	<0.02	0.028	0.023	0.05	8.5	10.5	0.35	184	1.18	0.01	7.49
TAS-22		22.3	2.22	5.23	0.10	0.07	0.032	0.023	0.05	8.5	9.7	0.39	266	0.97	0.01	2.95
TAS-23		17.40	2.04	3.98	0.10	0.04	0.032	0.024	0.05	7.5	8.6	0.40	212	0.92	0.01	1.76
TAS-24		8.90	2.30	9.05	0.10	0.03	0.031	0.023	0.05	7.5	7.6	0.30	199	1.39	0.01	7.92
TAS-25		12.20	2.68	7.28	0.10	0.08	0.031	0.030	0.05	7.8	11.1	0.37	271	1.45	0.01	5.87
TAS-26		19.15	2.86	7.61	0.11	0.07	0.038	0.028	0.06	14.5	11.1	0.47	334	1.39	0.01	4.93
TAS-27		19.10	1.98	4.22	0.11	0.04	0.027	0.022	0.05	9.0	8.5	0.40	350	0.74	0.01	2.06
TAS-28		87.5	4.89	11.75	0.31	0.34	0.285	0.077	0.18	73.2	25.0	0.77	1620	3.58	0.02	3.58
TAS-29		9.46	2.07	7.29	0.09	0.02	0.015	0.020	0.05	8.3	6.3	0.24	368	1.36	0.01	7.25
TAS-30		10.15	1.49	3.17	0.09	0.02	0.027	0.013	0.04	7.0	6.6	0.31	140	0.66	0.01	0.83
TAS-31		12.55	1.80	3.65	0.11	0.05	0.028	0.021	0.04	8.6	8.1	0.31	219	0.85	0.01	2.03
TAS-32		13.55	1.75	3.18	0.10	0.02	0.030	0.016	0.04	7.8	5.9	0.33	408	0.82	0.01	0.97
TAS-33		19.15	1.90	3.72	0.11	0.02	0.031	0.019	0.05	12.4	8.0	0.39	302	0.73	0.01	1.21
TAS-34		23.1	2.49	6.22	0.10	<0.02	0.052	0.026	0.08	13.8	13.0	0.44	408	1.42	0.01	2.71
TAS-35		40.3	3.04	5.63	0.15	0.17	0.092	0.031	0.11	23.1	15.5	0.64	782	1.81	0.02	1.81
TAS-36		41.4	2.55	5.38	0.14	0.15	0.104	0.032	0.10	22.5	14.8	0.55	511	1.21	0.02	2.60
TAS-101		18.65	1.94	4.28	0.11	0.02	0.047	0.022	0.05	11.2	8.3	0.43	451	0.80	0.01	1.61
TAS-102		15.20	2.08	4.15	0.10	0.16	0.036	0.027	0.04	9.1	7.4	0.38	311	1.00	0.01	3.53
TAS-103		9.74	2.59	6.53	0.09	0.02	0.029	0.020	0.04	7.2	11.6	0.56	291	1.29	0.01	4.86
TAS-104		13.35	2.23	4.50	0.11	0.07	0.020	0.023	0.06	11.5	8.4	0.52	304	0.63	0.02	2.95

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS TR11127036

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	
		Ni ppm	P %	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
TAS-1		10.0	0.022	4.12	8.4	<0.001	0.01	0.172	2.1	0.3	0.6	14.7	<0.01	0.01	0.7	0.042
TAS-2		22.5	0.028	4.52	8.4	<0.001	0.01	0.229	3.5	0.6	0.6	20.5	<0.01	0.02	0.9	0.033
TAS-3		19.6	0.054	5.03	6.0	<0.001	0.02	0.205	2.7	0.7	0.6	35.0	0.01	0.01	0.9	0.066
TAS-4		25.2	0.059	6.44	6.5	0.002	0.02	0.305	4.4	0.8	0.6	41.1	<0.01	0.02	1.4	0.066
TAS-5		50.3	0.065	8.37	10.6	0.003	0.03	0.582	11.5	6.1	1.1	40.0	0.01	0.03	1.6	0.025
TAS-6		19.9	0.017	7.27	10.8	<0.001	0.01	0.206	3.2	0.3	1.2	28.1	<0.01	0.02	1.1	0.038
TAS-7		9.8	0.013	4.98	9.1	<0.001	<0.01	0.159	2.0	0.3	1.3	16.1	<0.01	0.01	0.7	0.039
TAS-8		16.5	0.021	3.99	5.3	<0.001	0.01	0.204	2.9	0.4	0.5	49.0	<0.01	0.01	1.2	0.047
TAS-9		22.8	0.040	5.69	7.2	<0.001	0.01	0.213	3.5	0.6	0.9	46.1	<0.01	0.02	1.0	0.047
TAS-10		16.2	0.030	4.78	7.2	<0.001	0.02	0.150	2.4	0.3	0.9	20.0	<0.01	0.01	0.9	0.040
TAS-11		18.9	0.040	5.07	4.3	<0.001	<0.01	0.242	2.8	0.6	0.4	30.0	<0.01	0.01	1.5	0.057
TAS-12		15.8	0.031	5.37	6.8	<0.001	<0.01	0.253	2.7	0.4	0.5	20.7	<0.01	0.02	1.1	0.039
TAS-13		16.1	0.021	6.71	9.1	<0.001	<0.01	0.222	2.2	0.4	1.3	12.0	<0.01	0.01	1.6	0.050
TAS-14		13.3	0.037	5.04	4.6	<0.001	<0.01	0.234	2.6	0.4	0.8	13.5	<0.01	0.02	1.0	0.047
TAS-15		15.7	0.038	4.40	4.8	<0.001	<0.01	0.210	2.3	0.6	0.4	26.4	<0.01	<0.01	1.2	0.057
TAS-16		22.9	0.048	6.38	6.9	<0.001	0.01	0.243	6.5	1.9	1.2	35.0	0.01	0.02	1.2	0.045
TAS-17		15.0	0.281	11.25	49.3	<0.001	0.01	0.103	3.7	0.8	1.2	118.5	0.04	0.01	2.2	0.221
TAS-18		22.1	0.076	5.82	10.4	0.001	0.03	0.234	3.9	1.0	0.7	69.0	0.01	0.02	0.5	0.037
TAS-19		17.3	0.034	7.10	11.4	<0.001	0.01	0.257	3.0	0.3	1.1	21.8	<0.01	0.02	1.1	0.032
TAS-20		10.0	0.024	6.47	11.6	<0.001	<0.01	0.170	1.7	0.3	1.6	16.7	<0.01	0.01	0.7	0.050
TAS-21		15.6	0.034	6.63	9.1	<0.001	<0.01	0.202	2.7	0.3	1.7	18.3	<0.01	0.01	0.8	0.040
TAS-22		19.2	0.042	6.51	6.3	0.001	<0.01	0.260	3.8	0.4	0.7	23.8	<0.01	0.03	1.5	0.049
TAS-23		16.5	0.032	4.48	5.7	0.001	<0.01	0.226	3.0	0.2	0.5	20.9	0.01	0.01	1.4	0.052
TAS-24		10.9	0.038	5.63	7.4	<0.001	<0.01	0.230	2.6	0.4	1.8	12.7	<0.01	0.02	1.1	0.051
TAS-25		19.9	0.048	5.66	7.4	<0.001	<0.01	0.248	2.9	0.1	1.2	15.8	0.02	0.02	1.4	0.065
TAS-26		23.7	0.028	6.32	10.2	<0.001	<0.01	0.315	4.5	0.6	1.2	26.5	<0.01	0.03	1.5	0.077
TAS-27		20.8	0.039	4.85	4.9	<0.001	0.01	0.238	2.9	0.3	0.5	56.4	<0.01	0.02	1.0	0.061
TAS-28		55.7	0.105	12.10	16.1	0.002	0.06	0.525	15.4	4.5	1.4	103.5	0.01	0.07	1.8	0.013
TAS-29		10.3	0.035	5.28	14.8	0.001	<0.01	0.252	2.3	0.3	1.6	22.3	<0.01	0.01	1.0	0.066
TAS-30		10.8	0.038	3.11	5.3	<0.001	<0.01	0.174	2.4	0.1	0.3	20.7	<0.01	0.81	1.1	0.038
TAS-31		14.0	0.050	3.81	6.3	<0.001	<0.01	0.236	2.7	0.4	0.5	23.3	<0.01	0.02	1.3	0.043
TAS-32		13.2	0.053	3.89	4.6	<0.001	<0.01	0.231	3.0	0.2	0.4	24.6	<0.01	0.01	1.1	0.047
TAS-33		18.1	0.050	4.07	5.4	<0.001	<0.01	0.260	3.9	0.6	0.4	30.8	<0.01	0.01	1.2	0.051
TAS-34		21.0	0.052	5.95	9.4	<0.001	0.02	0.335	3.4	0.6	0.9	46.0	<0.01	0.03	0.4	0.037
TAS-35		32.4	0.060	7.34	9.0	0.002	0.03	0.352	7.3	1.7	0.6	110.5	<0.01	0.04	1.1	0.030
TAS-36		30.0	0.038	6.60	7.8	0.001	0.01	0.421	8.0	1.6	0.7	65.8	<0.01	0.03	1.6	0.040
TAS-101		18.3	0.050	4.63	5.9	<0.001	<0.01	0.255	3.6	0.8	0.5	25.3	<0.01	0.03	1.1	0.055
TAS-102		16.9	0.043	4.63	4.7	<0.001	<0.01	0.251	3.4	0.4	0.6	17.7	0.04	0.01	1.7	0.059
TAS-103		12.6	0.019	4.54	7.1	<0.001	<0.01	0.152	3.8	0.2	1.1	33.1	<0.01	0.01	0.7	0.047
TAS-104		21.7	0.039	5.07	6.3	0.001	<0.01	0.221	3.5	0.3	0.6	54.1	0.01	0.01	1.6	0.076

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS TR11127036

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	
		Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.02	0.05	1	0.0001	0.05	0.1	0.5
TAS-1		0.04	0.27	39	0.0834	2.68	36.6	<0.5
TAS-2		0.06	0.45	38	0.0788	6.84	49.0	1.4
TAS-3		0.04	0.45	39	0.0713	5.11	38.8	2.6
TAS-4		0.05	0.98	48	0.0965	10.80	62.2	5.7
TAS-5		0.13	7.88	55	0.108	199.5	112.5	8.6
TAS-6		0.08	0.59	52	0.140	7.32	45.1	1.3
TAS-7		0.06	0.36	42	0.142	4.67	37.9	0.7
TAS-8		0.05	0.64	35	0.0810	4.64	33.0	2.4
TAS-9		0.05	0.66	38	0.0966	9.10	42.8	2.1
TAS-10		0.05	0.43	34	0.103	3.15	32.5	1.4
TAS-11		0.05	0.44	41	0.0694	5.35	29.2	3.2
TAS-12		0.06	0.36	40	0.0656	3.29	31.5	0.7
TAS-13		0.07	0.34	44	0.152	1.90	43.6	7.4
TAS-14		0.05	0.40	38	0.114	5.95	30.3	1.0
TAS-15		0.05	0.44	35	0.0604	5.44	29.0	1.3
TAS-16		0.06	1.19	41	0.129	41.7	56.5	3.2
TAS-17		0.08	0.91	56	0.113	16.70	94.8	8.8
TAS-18		0.06	0.92	41	0.0628	17.60	67.0	3.0
TAS-19		0.07	0.45	52	0.162	3.43	43.8	1.0
TAS-20		0.07	0.28	37	0.181	2.28	38.7	0.7
TAS-21		0.07	0.40	48	0.178	2.84	45.0	0.5
TAS-22		0.07	0.44	46	0.0995	5.56	40.4	3.0
TAS-23		0.05	0.36	43	0.0919	4.02	36.8	1.5
TAS-24		0.05	0.31	45	0.221	2.62	42.7	1.1
TAS-25		0.06	0.39	49	0.156	3.41	57.9	3.3
TAS-26		0.08	0.56	59	0.134	9.15	55.8	3.2
TAS-27		0.04	0.45	42	0.0775	5.19	37.6	1.5
TAS-28		0.16	3.37	78	0.111	82.8	86.1	9.3
TAS-29		0.06	0.28	52	0.183	2.55	53.3	1.2
TAS-30		0.04	0.30	35	0.0636	3.50	32.8	0.7
TAS-31		0.04	0.37	38	0.0912	4.80	32.3	1.8
TAS-32		0.05	0.34	40	0.0833	4.75	36.5	0.8
TAS-33		0.05	0.45	43	0.0864	8.09	37.0	0.7
TAS-34		0.06	0.58	52	0.144	10.15	58.1	<0.5
TAS-35		0.10	1.40	57	0.0770	24.2	66.6	5.1
TAS-36		0.09	1.66	50	0.0913	35.2	51.2	4.8
TAS-101		0.05	0.42	45	0.0918	6.63	42.0	1.0
TAS-102		0.05	0.43	44	0.118	5.25	41.8	6.4
TAS-103		0.05	0.36	58	0.128	2.90	46.2	0.7
TAS-104		0.05	0.59	45	0.0960	6.03	39.9	3.2

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CERTIFICATE OF ANALYSIS TR11127036

Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.0002	0.002	0.01	0.02	10	0.5	0.05	0.01	0.01	0.01	0.02	0.1	0.5	0.05
TAS- 105		0.80	0.0020	0.114	2.09	5.18	<10	191.0	0.55	0.12	0.15	0.20	16.55	9.2	32.8	0.69
TAS- 106		0.80	0.0028	0.018	1.12	3.23	<10	118.5	0.26	0.10	0.25	0.04	16.30	5.6	23.2	0.53
TAS- 107		0.66	0.0019	0.022	1.21	3.18	<10	181.5	0.47	0.07	0.38	0.11	23.4	7.7	26.7	0.35
TAS- 108		0.62	0.0064	0.073	1.66	4.11	<10	320	0.46	0.13	0.50	0.52	23.9	9.1	26.7	0.60
TAS- 109		0.90	0.0017	0.076	1.21	3.67	<10	246	0.43	0.10	0.41	0.20	25.5	6.3	24.2	0.41
TAS- 110		0.80	0.0028	0.055	1.17	3.82	<10	213	0.46	0.09	0.46	0.21	25.3	6.9	25.4	0.37
TAS- 111		0.56	0.0037	0.082	1.52	4.17	<10	371	0.51	0.14	1.12	0.57	23.7	7.0	25.1	0.51
TAS- 112		0.76	0.0028	0.095	1.59	4.77	<10	330	0.63	0.12	0.65	0.34	31.0	9.6	28.6	0.42
TAS- 113		1.02	0.0028	0.047	1.48	4.69	<10	153.0	0.53	0.08	0.15	0.11	23.7	8.5	28.0	0.46
TAS- 114		0.82	0.0022	0.053	0.99	3.82	<10	173.0	0.38	0.08	0.47	0.18	25.7	5.7	21.6	0.34
TAS- 115		1.00	0.0048	0.061	1.32	3.80	<10	145.5	0.32	0.11	0.18	0.12	16.05	5.2	21.3	0.52
TAS- 116		0.72	0.0061	0.115	1.85	5.86	<10	172.0	0.62	0.10	0.23	0.37	28.9	7.7	28.7	0.60
TAS- 117		0.78	0.0022	0.049	1.55	5.03	<10	137.5	0.35	0.14	0.10	0.15	14.95	5.2	23.7	0.56
TAS- 118		0.68	0.0029	0.092	1.35	4.34	<10	260	0.47	0.12	0.51	0.43	23.9	7.1	24.4	0.56
TAS- 119		0.64	0.0020	0.030	1.54	3.67	<10	269	0.46	0.15	0.40	0.35	22.8	8.0	27.2	0.62
TAS- 120		0.78	0.0003	0.017	0.49	1.76	<10	108.0	0.19	0.04	0.24	0.07	9.20	2.9	10.6	0.21
TAS- 121		0.98	0.0006	0.119	1.54	4.08	<10	299	0.53	0.11	0.48	0.14	23.0	7.5	23.7	0.60
TAS- 122		1.04	0.0040	0.082	1.11	4.32	<10	220	0.44	0.07	0.50	0.23	23.9	5.9	20.5	0.39
TAS- 123		0.66	0.0029	0.205	1.35	3.27	<10	383	0.48	0.07	1.60	0.37	16.70	5.3	19.5	0.39
TAS- 124		0.72	0.0022	0.081	1.14	3.41	<10	291	0.33	0.08	0.56	0.13	18.45	5.6	20.0	0.35
TAS- 125		0.74	0.0026	0.101	1.27	5.25	<10	278	0.61	0.11	0.74	0.17	31.1	6.5	24.7	0.41
TAS- 126		0.92	0.0034	0.038	1.22	4.32	<10	155.5	0.37	0.07	0.22	0.10	18.55	5.8	20.6	0.41

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CERTIFICATE OF ANALYSIS TR1127036

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
TAS-105		13.20	2.91	6.78	0.09	0.26	0.040	0.030	0.05	8.2	12.1	0.50	338	1.30	0.01	3.82
TAS-106		6.91	1.86	5.28	0.10	0.08	0.012	0.019	0.05	8.1	9.2	0.40	195	0.91	0.01	3.62
TAS-107		13.75	1.99	4.34	0.10	0.07	0.016	0.019	0.05	11.9	7.1	0.42	371	0.72	0.02	2.76
TAS-108		16.20	2.30	6.71	0.10	0.05	0.044	0.029	0.07	10.8	10.2	0.40	494	1.28	0.01	4.29
TAS-109		15.35	1.95	4.75	0.11	0.03	0.028	0.022	0.05	14.3	7.9	0.37	398	0.77	0.02	2.99
TAS-110		15.10	1.99	4.22	0.13	0.08	0.020	0.022	0.06	13.3	8.1	0.43	348	0.75	0.02	3.11
TAS-111		20.2	2.18	5.25	0.11	0.07	0.038	0.030	0.08	12.8	9.1	0.42	502	0.97	0.02	4.07
TAS-112		18.55	2.61	5.81	0.12	0.13	0.046	0.030	0.07	17.2	10.9	0.50	421	1.30	0.02	3.65
TAS-113		17.40	2.25	4.24	0.10	0.12	0.036	0.018	0.04	10.7	6.7	0.45	267	0.75	0.01	1.20
TAS-114		15.90	1.88	3.66	0.12	0.08	0.034	0.019	0.05	12.3	6.8	0.42	314	0.65	0.02	2.43
TAS-115		10.90	2.01	5.62	0.09	0.03	0.013	0.019	0.05	7.8	8.1	0.36	279	0.98	0.01	4.22
TAS-116		17.30	2.55	5.23	0.10	0.08	0.032	0.030	0.06	13.2	9.3	0.46	249	1.14	0.01	3.26
TAS-117		10.25	2.48	7.31	0.08	0.03	0.028	0.024	0.04	7.5	7.7	0.27	181	1.29	0.01	4.87
TAS-118		17.95	2.22	5.14	0.11	0.04	0.039	0.027	0.07	11.6	8.7	0.45	645	0.98	0.02	3.99
TAS-119		12.35	2.52	7.17	0.11	0.14	0.021	0.030	0.06	10.3	12.3	0.45	421	1.34	0.02	7.44
TAS-120		6.49	0.84	1.66	0.09	0.04	0.013	0.007	0.04	4.5	3.1	0.18	159	0.41	<0.01	0.99
TAS-121		15.10	2.25	5.80	<0.05	0.23	0.033	0.029	0.06	10.9	10.7	0.44	328	0.88	0.02	7.40
TAS-122		14.70	1.85	3.88	<0.05	0.08	0.039	0.018	0.04	10.9	7.7	0.38	298	0.85	<0.01	3.18
TAS-123		22.7	1.66	3.78	<0.05	0.14	0.077	0.021	0.06	12.6	8.9	0.39	802	0.97	<0.01	1.90
TAS-124		15.60	1.69	3.39	<0.05	0.07	0.047	0.018	0.05	8.1	7.7	0.37	329	0.57	<0.01	1.26
TAS-125		17.20	2.30	5.41	<0.05	0.11	0.028	0.028	0.06	11.8	9.5	0.44	371	1.15	<0.01	6.53
TAS-126		15.05	1.98	4.22	<0.05	0.05	0.028	0.020	0.04	6.9	6.5	0.34	282	0.95	<0.01	2.43

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CERTIFICATE OF ANALYSIS TR1127036

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	
		Ni ppm	P %	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
		0.1	0.001	0.01	0.1	0.001	0.01	0.005	0.1	0.1	0.2	0.2	0.01	0.01	0.01	
TAS-105		25.2	0.033	6.31	8.9	<0.001	<0.01	0.297	3.4	0.2	1.0	21.3	0.01	0.01	2.2	0.091
TAS-106		15.7	0.026	4.90	8.4	<0.001	<0.01	0.170	2.5	0.2	0.9	26.1	<0.01	0.01	1.4	0.076
TAS-107		20.3	0.054	4.26	5.8	<0.001	0.01	0.207	2.8	0.4	0.6	36.3	0.01	0.02	1.4	0.100
TAS-108		21.7	0.037	6.27	8.6	<0.001	0.01	0.267	4.0	0.3	0.9	47.7	<0.01	0.02	1.3	0.065
TAS-109		18.0	0.052	5.13	6.0	<0.001	0.01	0.219	3.3	0.6	0.7	41.3	<0.01	0.01	1.1	0.070
TAS-110		20.0	0.048	5.04	6.0	<0.001	0.01	0.207	3.4	0.6	0.6	40.6	0.01	0.02	1.5	0.088
TAS-111		19.6	0.045	5.99	10.7	<0.001	0.04	0.231	3.6	0.7	0.9	81.3	<0.01	0.01	0.7	0.048
TAS-112		24.4	0.067	6.32	7.6	0.001	0.02	0.225	4.2	0.7	0.8	54.9	<0.01	0.02	1.2	0.072
TAS-113		20.4	0.016	5.22	6.3	<0.001	<0.01	0.311	3.6	0.4	0.4	23.3	<0.01	0.02	2.1	0.073
TAS-114		17.0	0.061	4.35	4.6	0.001	0.01	0.226	3.4	0.4	0.5	39.6	0.01	0.02	1.5	0.072
TAS-115		15.3	0.027	4.94	8.6	<0.001	<0.01	0.202	2.7	0.3	1.0	18.1	<0.01	0.02	1.2	0.061
TAS-116		23.0	0.022	5.76	7.1	<0.001	0.01	0.311	3.6	0.3	0.7	21.8	0.01	0.03	1.6	0.055
TAS-117		13.7	0.038	6.54	6.8	<0.001	<0.01	0.305	2.6	0.3	1.1	15.4	<0.01	0.01	1.2	0.057
TAS-118		18.8	0.060	5.75	7.9	<0.001	0.02	0.229	3.2	0.5	0.9	43.5	0.01	0.01	0.7	0.055
TAS-119		19.6	0.017	6.93	9.5	<0.001	<0.01	0.234	3.5	0.4	1.3	42.7	0.01	0.02	1.8	0.087
TAS-120		8.5	0.024	1.94	2.8	<0.001	<0.01	0.105	1.5	0.2	0.3	21.3	<0.01	0.01	0.6	0.036
TAS-121		23.9	0.048	5.66	6.6	<0.001	<0.01	0.136	3.6	0.6	1.1	39.4	<0.01	<0.01	1.2	0.066
TAS-122		19.8	0.049	4.96	4.9	<0.001	<0.01	0.228	3.3	0.6	0.6	38.7	0.01	0.02	1.0	0.060
TAS-123		20.3	0.073	4.58	6.8	0.001	0.07	0.305	3.4	1.1	0.6	163.0	<0.01	0.01	0.4	0.023
TAS-124		17.8	0.047	4.62	5.3	<0.001	0.01	0.228	4.0	0.4	0.6	53.6	<0.01	0.03	1.1	0.038
TAS-125		22.5	0.059	6.27	5.9	0.001	0.01	0.231	3.1	0.5	1.2	70.5	0.02	0.02	0.8	0.051
TAS-126		18.2	0.034	4.93	4.3	<0.001	<0.01	0.249	3.0	0.3	0.6	23.0	<0.01	0.02	1.1	0.054

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CERTIFICATE OF ANALYSIS TR11127036

Sample Description	Method Analyte Units LOR	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.0001	0.05	0.1	0.5
TAS- 105		0.06	0.43	58	0.126	2.83	52.0	10.5
TAS- 106		0.04	0.32	42	0.118	3.14	36.8	3.3
TAS- 107		0.04	0.54	42	0.0697	5.47	42.1	3.3
TAS- 108		0.07	0.58	51	0.114	5.74	58.9	2.5
TAS- 109		0.06	0.65	43	0.0970	8.08	45.7	1.7
TAS- 110		0.04	0.75	43	0.0779	6.72	42.1	3.4
TAS- 111		0.07	0.76	44	0.0978	9.33	66.0	2.6
TAS- 112		0.07	1.15	50	0.0826	12.05	66.8	4.8
TAS- 113		0.05	0.55	50	0.0673	4.10	38.0	5.3
TAS- 114		0.03	0.56	40	0.0740	8.19	40.8	3.0
TAS- 116		0.05	0.33	46	0.140	3.11	41.7	1.7
TAS- 116		0.05	0.47	52	0.121	6.51	43.2	3.1
TAS- 117		0.07	0.31	56	0.152	3.17	35.5	1.0
TAS- 118		0.05	0.75	44	0.105	7.42	54.8	1.4
TAS- 119		0.05	0.53	52	0.142	4.27	58.3	5.6
TAS- 120		0.02	0.29	18	0.0321	3.10	14.5	1.6
TAS- 121		0.06	0.75	44	0.0608	7.42	51.7	9.3
TAS- 122		0.05	0.76	38	0.9919	8.92	37.9	3.3
TAS- 123		0.08	1.17	30	0.0764	14.55	46.7	4.1
TAS- 124		0.06	0.59	37	0.0726	6.86	36.7	2.0
TAS- 125		0.05	0.63	43	0.122	7.36	43.3	3.9
TAS- 126		0.05	0.37	43	0.0900	4.16	36.0	1.9

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CERTIFICATE OF ANALYSIS TR11127036

Method	CERTIFICATE COMMENTS
ME- MS41L	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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CERTIFICATE TR11132695

Project: KCC- 2011- 003
 P.O. No.: 114694
 This report is for 150 Drill Core samples submitted to our lab in Terrace, BC, Canada on 17- JUL- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 ACCOUNTS PAYABLE

BRAD MERCER
 BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 23	Pulp Login - Rcvd with Barcode
LOG- 21d	Sample logging - ClientBarCode Dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES

To: KUTCHO COPPER CORP.
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: KCC- 2011- 003

CERTIFICATE OF ANALYSIS TR11132695

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
I134001		1.63	<0.2	1.31	3	<10	40	<0.5	<2	6.14	<0.5	24	20	77	3.22	10
I134002		1.16	<0.2	0.98	<2	<10	50	<0.5	<2	5.88	<0.5	15	20	42	2.14	<10
I134003		2.03	<0.2	0.30	<2	<10	40	<0.5	<2	3.53	<0.5	16	6	35	2.76	<10
I134004		1.59	<0.2	0.59	3	<10	80	<0.5	2	1.61	<0.5	4	1	20	2.34	<10
I134005		1.62	<0.2	0.53	<2	<10	80	<0.5	<2	1.51	<0.5	3	2	42	2.22	<10
I134006D		<0.02	<0.2	0.51	<2	<10	90	<0.5	2	1.63	<0.5	2	1	43	2.25	<10
I134007		1.74	<0.2	0.79	<2	<10	80	<0.5	3	1.58	<0.5	3	1	21	2.26	<10
I134008		1.64	<0.2	0.50	<2	<10	60	<0.5	2	1.36	<0.5	3	1	27	2.46	<10
I134009		1.71	<0.2	0.50	<2	<10	60	<0.5	2	1.53	<0.5	3	<1	27	2.30	<10
I134010		1.38	1.4	0.26	6	<10	50	<0.5	3	0.21	23.6	12	1	351	4.51	<10
I134011		1.52	0.4	0.29	2	<10	40	<0.5	3	0.49	13.3	23	1	161	6.17	<10
I134012D		<0.02	0.4	0.29	3	<10	40	<0.5	<2	0.48	13.5	25	2	157	6.22	<10
I134013		1.71	0.7	0.23	5	<10	40	<0.5	2	0.22	0.6	22	1	192	6.14	<10
I134014		1.77	0.8	0.22	7	<10	30	<0.5	2	0.13	3.8	29	2	563	7.32	<10
I134015		1.73	<0.2	0.22	5	<10	30	<0.5	2	0.20	<0.5	35	2	101	7.26	<10
I134016		0.36	<0.2	0.03	5	<10	10	<0.5	<2	>25.0	<0.5	<1	1	1	0.06	<10
I134017		1.59	0.5	0.20	4	<10	40	<0.5	2	0.30	2.4	18	2	497	6.03	<10
I134018		1.59	<0.2	0.24	5	<10	40	<0.5	<2	0.74	<0.5	18	2	38	3.91	<10
I134019		0.24	6.4	0.45	<2	<10	50	<0.5	7	8.2	1.2	8	1	>10000	3.44	<10
I134020		0.12	81.3	1.61	444	<10	40	<0.5	5	1.88	53.2	30	75	>10000	6.22	10
I134021		0.60	3.5	0.39	11	<10	20	<0.5	<2	7.5	9.7	2	1	2680	4.21	<10
I134022		1.89	10.7	0.09	297	<10	10	<0.5	2	2.53	502	3	<1	4030	20.8	<10
I134023		2.12	8.8	0.19	274	<10	10	<0.5	2	2.67	118.5	<1	1	3120	24.4	<10
I134024		1.88	30.3	0.04	371	<10	<10	<0.5	16	3.72	122.0	10	<1	>10000	25.3	<10
I134025D		<0.02	29.7	0.05	363	<10	<10	<0.5	17	3.61	119.5	10	<1	>10000	25.7	<10
I134026		1.64	29.2	0.04	500	<10	<10	<0.5	38	4.57	126.0	27	<1	>10000	26.1	<10
I134027		1.92	27.1	0.15	410	<10	<10	<0.5	16	5.70	204	18	<1	>10000	25.6	<10
I134028		1.39	16.3	0.04	325	<10	<10	<0.5	23	5.70	166.5	10	<1	>10000	24.6	<10
I134029		0.13	>100	1.33	41	<10	10	<0.5	170	0.33	64.1	153	29	>10000	31.0	10
I134030		2.11	38.3	0.10	445	<10	<10	<0.5	31	3.94	185.0	79	<1	>10000	25.7	<10
I134031		0.77	54.7	0.03	381	<10	<10	<0.5	28	4.27	145.0	63	<1	>10000	24.9	<10
I134032		2.15	34.5	0.09	421	<10	<10	<0.5	37	1.20	142.0	97	<1	>10000	27.0	10
I134033		0.52	38.8	0.03	195	<10	<10	<0.5	36	5.19	115.0	99	<1	>10000	27.7	<10
I134034		1.45	>100	0.02	228	<10	<10	<0.5	90	5.58	129.5	124	<1	>10000	24.1	<10
I134035		0.13	>100	1.34	43	<10	10	<0.5	149	0.34	66.4	158	29	>10000	30.8	10
I134036		1.05	55.2	0.03	264	<10	<10	<0.5	56	5.33	349	33	<1	>10000	23.7	<10
I134037		2.20	47.3	0.10	268	<10	10	<0.5	25	0.90	136.0	24	<1	>10000	24.5	<10
I134038		2.97	9.9	0.11	72	<10	10	<0.5	7	0.21	46.5	57	<1	5860	26.5	<10
I134039		1.44	3.0	0.21	27	<10	10	<0.5	3	0.94	63.8	114	<1	1745	28.4	<10
I134040		2.42	1.1	0.62	9	<10	20	<0.5	4	0.45	1.5	22	2	235	19.4	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
I134001		<1	0.16	<10	0.90	1355	<1	0.03	20	470	5	1.87	2	5	94	<20
I134002		<1	0.16	<10	0.86	1390	<1	0.04	15	290	6	0.73	<2	8	87	<20
I134003		<1	0.15	<10	0.75	596	<1	0.06	18	180	6	2.51	<2	6	38	<20
I134004		<1	0.15	<10	2.00	381	<1	0.03	5	250	<2	0.93	<2	3	29	<20
I134005		<1	0.17	<10	2.04	341	<1	0.03	5	200	2	0.84	<2	2	18	<20
I134006D		<1	0.16	<10	2.07	360	<1	0.04	5	200	2	0.87	<2	2	19	<20
I134007		<1	0.18	<10	2.41	409	<1	0.05	3	220	<2	1.09	<2	2	17	<20
I134008		<1	0.15	<10	2.37	401	<1	0.06	3	200	<2	1.10	<2	2	17	<20
I134009		<1	0.14	<10	2.45	432	1	0.06	4	190	2	0.86	<2	2	20	<20
I134010		1	0.14	<10	0.26	74	26	0.02	<1	10	6	4.95	<2	1	4	<20
I134011		<1	0.15	<10	0.74	145	25	0.02	<1	20	5	7.33	<2	1	7	<20
I134012D		<1	0.15	<10	0.75	143	25	0.01	<1	20	6	7.53	<2	1	7	<20
I134013		<1	0.14	<10	0.13	43	28	0.01	<1	20	4	7.57	<2	1	2	<20
I134014		<1	0.13	<10	0.05	28	45	0.01	<1	60	2	9.07	<2	<1	2	<20
I134015		<1	0.12	<10	0.06	40	40	0.02	<1	20	<2	9.02	<2	<1	2	<20
I134016		1	<0.01	<10	2.09	32	1	0.02	<1	60	<2	0.12	<2	<1	6090	30
I134017		<1	0.11	<10	0.11	40	31	0.02	<1	40	3	7.39	<2	1	8	<20
I134018		<1	0.12	<10	0.33	68	34	0.03	<1	110	<2	4.23	<2	1	21	<20
I134019		<1	0.18	<10	4.36	866	18	0.06	<1	130	3	2.52	2	11	43	<20
I134020		3	0.36	10	1.36	771	1280	0.10	240	1220	8020	4.33	69	7	205	<20
I134021		1	0.06	<10	4.17	950	70	0.12	14	230	199	4.68	<2	9	42	<20
I134022		30	0.01	<10	1.34	988	3	0.04	3	50	3070	>10.0	30	1	10	<20
I134023		8	0.02	<10	1.41	1905	38	0.07	16	200	2060	>10.0	10	3	12	<20
I134024		9	0.01	<10	1.97	1510	13	0.02	<1	20	3280	>10.0	15	1	16	<20
I134025D		8	0.01	<10	1.92	1470	14	0.03	<1	20	3240	>10.0	16	1	15	<20
I134026		8	<0.01	<10	2.43	1720	21	0.02	<1	30	253	>10.0	22	<1	23	<20
I134027		11	<0.01	<10	1.67	1885	25	0.01	4	40	220	>10.0	15	<1	50	<20
I134028		8	<0.01	<10	2.81	2250	33	0.02	1	40	140	>10.0	8	<1	36	<20
I134029		1	0.06	<10	1.49	377	7	0.01	5	100	1610	>10.0	4	2	3	<20
I134030		8	0.01	<10	0.73	742	29	0.03	<1	60	384	>10.0	22	<1	42	<20
I134031		7	<0.01	<10	2.26	1715	12	0.02	<1	230	174	>10.0	17	<1	23	<20
I134032		7	<0.01	<10	0.45	453	10	0.02	<1	50	199	>10.0	24	<1	10	<20
I134033		7	<0.01	<10	2.53	1705	11	0.02	<1	1970	238	>10.0	4	<1	26	<20
I134034		8	<0.01	<10	3.74	1990	8	0.02	<1	1470	169	>10.0	11	1	24	<20
I134035		1	0.06	<10	1.53	396	6	0.01	7	100	1670	>10.0	13	2	3	<20
I134036		19	<0.01	<10	3.17	1730	14	0.02	<1	540	880	>10.0	11	<1	24	<20
I134037		9	0.02	<10	0.45	326	14	0.04	<1	20	250	>10.0	12	1	4	<20
I134038		3	0.03	<10	0.08	65	1	0.03	<1	70	553	>10.0	5	<1	2	<20
I134039		3	0.03	<10	0.94	551	<1	0.06	<1	270	223	>10.0	<2	2	7	<20
I134040		<1	0.05	<10	3.29	480	2	0.08	<1	130	25	>10.0	<2	4	9	<20



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Cu- OG46	Zn- OG46	Au- AA23
	Analyte Units LOR	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	Zn %
		0.01	10	10	1	10	1	0.001	0.001	0.005
1134001		<0.01	<10	<10	25	<10	43			0.011
1134002		<0.01	<10	<10	21	<10	70			0.005
1134003		<0.01	<10	<10	10	<10	30			0.020
1134004		<0.01	<10	<10	5	<10	357			0.005
1134005		<0.01	<10	<10	6	<10	400			0.005
1134006D		<0.01	<10	<10	5	<10	404			0.008
1134007		<0.01	<10	<10	4	<10	315			0.008
1134008		<0.01	<10	<10	4	<10	413			0.010
1134009		<0.01	<10	<10	3	<10	404			0.015
1134010		<0.01	<10	<10	1	<10	4620			0.061
1134011		<0.01	<10	<10	1	<10	1805			0.017
1134012D		<0.01	<10	<10	1	<10	1820			0.018
1134013		<0.01	<10	<10	1	<10	72			0.015
1134014		<0.01	<10	<10	1	<10	585			0.021
1134015		<0.01	<10	<10	1	<10	40			0.012
1134016		<0.01	<10	20	2	<10	3			<0.005
1134017		<0.01	<10	<10	1	<10	461			0.011
1134018		<0.01	<10	<10	1	<10	69			0.005
1134019		<0.01	<10	<10	5	<10	198	1.420		0.011
1134020		0.10	<10	<10	75	20	8830	2.49		1.335
1134021		<0.01	<10	10	10	<10	2770			0.030
1134022		<0.01	10	<10	10	10	>10000		11.30	0.148
1134023		<0.01	10	10	12	10	>10000		2.91	0.139
1134024		<0.01	10	<10	9	20	>10000	1.410	2.51	0.254
1134025D		<0.01	10	<10	9	<10	>10000	1.415	2.50	0.263
1134026		<0.01	10	<10	13	20	>10000	1.515	2.28	0.297
1134027		<0.01	10	<10	14	10	>10000	1.410	3.43	0.265
1134028		<0.01	10	<10	12	20	>10000	1.570	2.53	0.187
1134029		0.01	10	<10	15	20	>10000	115	5.09	2.000
1134030		<0.01	10	<10	6	20	>10000	1.610	2.29	0.264
1134031		<0.01	10	<10	12	10	>10000	2.68	2.35	0.402
1134032		<0.01	10	<10	13	10	>10000	1.065	2.09	0.234
1134033		<0.01	10	20	10	<10	>10000	1.590	2.10	0.288
1134034		<0.01	10	20	11	20	>10000	122	5.18	1.945
1134035		0.01	10	<10	14	10	>10000	113	4.99	2.24
1134036		<0.01	10	<10	10	20	>10000	2.78	5.49	0.428
1134037		<0.01	10	<10	3	10	>10000	1.725	2.32	0.362
1134038		<0.01	10	<10	1	<10	9900			0.093
1134039		<0.01	10	<10	2	<10	>10000		1.188	0.046
1134040		<0.01	10	<10	4	<10	774			0.022



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Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
I134041		1.42	4.3	0.16	18	<10	10	<0.5	6	0.03	2.1	112	1	3380	24.6	<10
I134042D		<0.02	4.1	0.18	12	<10	10	<0.5	3	0.03	2.0	119	2	2700	24.8	<10
I134043		1.48	2.8	0.16	22	<10	10	<0.5	4	0.52	0.7	38	1	169	25.0	<10
I134044		0.31	0.3	0.03	5	<10	<10	<0.5	<2	>25.0	<0.5	<1	1	10	0.16	<10
I134045		1.55	2.1	2.09	28	<10	10	<0.5	2	2.18	<0.5	10	2	547	10.50	<10
I134046		1.38	0.8	0.87	17	<10	30	<0.5	<2	2.91	1.6	3	2	214	4.49	<10
I134047		2.00	1.1	0.92	8	<10	20	<0.5	2	0.81	5.5	25	1	634	12.80	<10
I134048		1.84	0.3	0.53	5	<10	30	<0.5	2	0.44	<0.5	5	1	58	3.85	<10
I134049		1.92	0.7	0.41	16	<10	20	<0.5	2	0.53	4.8	10	2	231	4.33	<10
I134050D		<0.02	0.5	0.40	12	<10	20	<0.5	3	0.54	8.0	9	2	233	3.96	<10
I134051		1.84	0.6	0.56	36	<10	20	<0.5	2	1.23	8.5	8	1	113	4.86	<10
I134052		1.28	0.2	1.29	6	<10	40	<0.5	<2	0.69	<0.5	3	1	12	1.56	<10
I134053		2.17	<0.2	1.55	2	<10	10	<0.5	<2	0.56	<0.5	5	1	10	2.33	<10
I134054		2.10	<0.2	1.92	<2	<10	20	<0.5	<2	0.38	<0.5	7	2	4	2.02	<10
I134055D		<0.02	<0.2	1.87	3	<10	10	<0.5	<2	0.37	<0.5	7	2	5	1.94	<10
I134056		2.13	<0.2	2.63	3	<10	10	<0.5	<2	0.31	<0.5	8	3	5	2.47	10
I134057		2.10	<0.2	2.80	<2	<10	20	<0.5	<2	0.56	<0.5	7	1	4	2.44	10
I134058		2.02	<0.2	2.45	3	<10	<10	<0.5	<2	0.38	<0.5	7	1	4	2.46	10
I134059		1.90	<0.2	1.87	<2	<10	10	<0.5	<2	0.41	<0.5	6	1	5	2.39	<10
I134060		2.23	<0.2	1.35	3	<10	10	<0.5	<2	0.16	<0.5	4	1	3	1.88	<10
I134061		2.22	<0.2	0.82	<2	<10	50	<0.5	<2	0.43	<0.5	5	1	3	1.71	<10
I134062		2.26	<0.2	0.66	5	<10	60	<0.5	<2	0.97	<0.5	6	1	6	2.19	<10
I134063		0.09	29.2	2.04	84	<10	10	<0.5	18	1.44	160.0	52	66	6260	9.11	10
I134064		2.26	<0.2	1.66	8	<10	10	<0.5	<2	0.88	<0.5	12	1	11	3.76	<10
I134065		1.44	<0.2	1.39	4	<10	20	<0.5	<2	0.66	<0.5	7	<1	6	2.06	<10
I134066		0.32	<0.2	0.04	<2	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	1	0.05	<10
I134067		1.08	<0.2	2.11	<2	<10	20	<0.5	<2	0.74	<0.5	6	<1	13	1.96	10
I134068		1.90	0.2	1.28	3	<10	20	<0.5	<2	0.57	<0.5	5	1	6	1.45	<10
I134069		1.65	<0.2	2.20	<2	<10	20	<0.5	<2	0.89	<0.5	6	1	5	2.10	<10
I134070		1.84	<0.2	2.11	2	<10	10	<0.5	<2	0.28	<0.5	4	<1	6	1.55	<10
I134071D		<0.02	<0.2	2.22	<2	<10	10	<0.5	<2	0.24	<0.5	5	<1	7	1.62	<10
I134072		2.20	<0.2	2.64	<2	<10	10	<0.5	<2	0.08	<0.5	12	<1	7	3.33	10
I134073		2.11	<0.2	2.98	<2	<10	10	<0.5	<2	0.38	<0.5	6	<1	4	2.27	10
I134074		2.21	<0.2	2.47	3	<10	10	<0.5	<2	0.13	<0.5	13	<1	8	4.14	10
I134075		0.72	0.2	0.46	6	<10	10	<0.5	2	0.15	<0.5	25	<1	12	6.23	<10
I134076D		<0.02	<0.2	0.50	9	<10	10	<0.5	<2	0.21	<0.5	28	<1	12	6.61	<10
I134077		1.59	<0.2	1.75	5	<10	20	<0.5	<2	0.07	<0.5	5	<1	8	1.92	<10
I134078		1.58	<0.2	1.69	<2	<10	20	<0.5	<2	0.07	<0.5	5	<1	10	3.19	<10
I134079		2.21	<0.2	0.88	5	<10	10	<0.5	<2	0.12	<0.5	8	1	15	5.53	<10
I134080		2.22	<0.2	1.54	<2	<10	10	<0.5	<2	0.43	<0.5	10	4	13	6.37	<10



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		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I134041		<1	0.06	<10	0.12	19	1	0.03	<1	10	40	>10.0	<2	<1	2	<20
I134042D		<1	0.07	<10	0.11	25	1	0.03	<1	20	39	>10.0	2	<1	2	<20
I134043		<1	0.05	<10	0.28	34	1	0.04	<1	<10	193	>10.0	2	1	4	<20
I134044		<1	<0.01	<10	2.27	37	<1	0.02	<1	60	3	0.26	<2	<1	5730	30
I134045		<1	0.03	<10	5.90	1270	14	0.06	<1	270	415	>10.0	2	7	19	<20
I134046		<1	0.07	<10	3.88	1150	3	0.04	<1	920	15	4.76	<2	4	43	<20
I134047		<1	0.11	<10	2.22	696	5	0.04	<1	260	8	>10.0	<2	2	6	<20
I134048		<1	0.11	<10	0.67	251	8	0.05	1	110	4	4.05	<2	1	6	<20
I134049		1	0.12	<10	0.44	203	18	0.04	<1	290	2	4.59	<2	1	5	<20
I134050D		<1	0.12	<10	0.43	207	21	0.04	<1	270	2	4.21	2	1	5	<20
I134051		<1	0.11	<10	1.03	469	24	0.04	<1	320	4	5.04	<2	1	8	<20
I134052		1	0.11	<10	1.58	359	7	0.04	<1	130	3	0.68	<2	2	7	<20
I134053		<1	0.11	<10	1.78	319	6	0.03	<1	130	<2	1.34	<2	2	5	<20
I134054		<1	0.12	<10	1.98	267	5	0.03	<1	210	<2	0.76	<2	2	4	<20
I134055D		<1	0.11	<10	1.94	268	5	0.03	<1	210	<2	0.69	<2	2	4	<20
I134056		1	0.10	<10	2.81	291	3	0.03	<1	180	<2	0.54	<2	2	4	<20
I134057		<1	0.09	<10	2.86	376	16	0.03	<1	230	<2	0.35	<2	3	6	<20
I134058		<1	0.10	<10	2.74	302	9	0.03	<1	140	2	0.38	<2	2	5	<20
I134059		<1	0.11	<10	2.19	303	2	0.03	<1	140	<2	0.66	<2	2	4	<20
I134060		<1	0.11	<10	1.65	174	12	0.03	<1	160	<2	0.48	<2	1	4	<20
I134061		<1	0.10	<10	1.43	273	15	0.03	<1	140	<2	0.45	<2	1	5	<20
I134062		<1	0.09	<10	3.36	468	6	0.04	<1	110	2	0.25	<2	2	7	<20
I134063		5	0.25	<10	1.19	449	14	0.12	41	570	6780	8.16	36	5	37	<20
I134064		<1	0.10	<10	2.56	469	9	0.04	<1	100	<2	1.58	<2	2	5	<20
I134065		<1	0.10	<10	2.12	354	5	0.03	<1	160	<2	0.66	<2	2	7	<20
I134066		<1	<0.01	<10	2.35	33	<1	0.01	<1	60	<2	0.08	<2	<1	4750	20
I134067		<1	0.09	<10	2.77	382	9	0.03	<1	350	2	0.35	<2	2	11	<20
I134068		<1	0.11	<10	1.46	223	9	0.03	<1	210	<2	0.73	<2	1	20	<20
I134069		<1	0.07	<10	3.03	452	5	0.03	<1	220	<2	0.74	<2	2	8	<20
I134070		<1	0.08	<10	2.45	294	2	0.02	<1	220	<2	0.23	<2	2	5	<20
I134071D		<1	0.08	<10	2.56	284	3	0.02	<1	210	<2	0.24	<2	2	4	<20
I134072		1	0.10	<10	3.01	264	2	0.03	<1	130	<2	2.04	<2	2	4	<20
I134073		<1	0.08	<10	3.68	440	4	0.02	<1	170	<2	0.46	<2	3	6	<20
I134074		<1	0.11	<10	2.71	271	7	0.03	<1	240	3	3.06	<2	2	4	<20
I134075		<1	0.10	<10	0.42	100	18	0.03	<1	130	<2	6.84	<2	1	4	<20
I134076D		<1	0.11	<10	0.49	136	20	0.03	<1	110	<2	7.29	<2	1	3	<20
I134077		<1	0.10	<10	1.87	173	9	0.03	<1	160	<2	0.91	<2	1	3	<20
I134078		<1	0.10	<10	2.05	188	4	0.04	<1	150	<2	2.24	<2	2	4	<20
I134079		<1	0.11	<10	1.17	138	5	0.03	<1	140	<2	5.55	<2	1	4	<20
I134080		<1	0.11	<10	1.67	296	5	0.04	1	160	2	6.25	<2	2	6	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Cu- OG46	Zn- OG46	Au- AA23
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001	Zn % 0.001	Au ppm 0.005
I134041		<0.01	10	<10	1	<10	319				0.052
I134042D		<0.01	<10	<10	1	<10	359				0.044
I134043		<0.01	10	<10	1	<10	204				0.026
I134044		<0.01	<10	20	1	<10	9				<0.005
I134045		<0.01	<10	<10	5	<10	665				0.017
I134046		<0.01	<10	<10	3	<10	667				0.010
I134047		<0.01	<10	<10	2	<10	752				0.020
I134048		<0.01	<10	<10	1	<10	89				0.007
I134049		<0.01	<10	<10	<1	<10	583				0.010
I134050D		<0.01	<10	<10	<1	<10	935				0.009
I134051		<0.01	<10	<10	1	<10	522				0.016
I134052		<0.01	<10	<10	2	<10	215				0.014
I134053		<0.01	<10	<10	2	<10	97				0.016
I134054		<0.01	<10	<10	2	<10	44				<0.005
I134055D		<0.01	<10	<10	2	<10	42				<0.005
I134056		<0.01	<10	<10	4	<10	45				<0.005
I134057		<0.01	<10	<10	3	<10	42				<0.005
I134058		<0.01	<10	<10	3	<10	38				<0.005
I134059		<0.01	<10	<10	2	<10	31				<0.005
I134060		<0.01	<10	<10	2	<10	27				<0.005
I134061		<0.01	<10	<10	2	<10	25				<0.005
I134062		<0.01	<10	<10	3	<10	35				<0.005
I134063		0.13	10	<10	73	20	>10000		3.06		0.068
I134064		<0.01	<10	<10	5	<10	44				<0.005
I134065		<0.01	<10	<10	2	<10	30				<0.005
I134066		<0.01	<10	<10	<1	<10	2				0.007
I134067		<0.01	<10	<10	3	<10	34				<0.005
I134068		<0.01	<10	<10	1	<10	18				<0.005
I134069		<0.01	<10	<10	3	<10	34				<0.005
I134070		<0.01	<10	<10	2	<10	32				<0.005
I134071D		<0.01	<10	<10	2	<10	33				<0.005
I134072		<0.01	<10	<10	3	<10	38				<0.005
I134073		<0.01	<10	<10	3	<10	46				<0.005
I134074		<0.01	<10	<10	3	<10	35				<0.005
I134075		<0.01	<10	<10	1	<10	7				<0.005
I134076D		<0.01	<10	<10	1	<10	7				<0.005
I134077		<0.01	<10	<10	2	<10	29				<0.005
I134078		<0.01	<10	<10	2	<10	37				<0.005
I134079		<0.01	<10	<10	2	<10	28				<0.005
I134080		<0.01	<10	<10	7	<10	40				<0.005



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
I134081D		<0.02	<0.2	1.47	2	<10	10	<0.5	2	0.50	<0.5	9	3	13	6.14	<10
I134082		1.43	<0.2	1.20	2	<10	10	<0.5	2	0.54	<0.5	5	1	15	2.90	<10
I134083		2.06	<0.2	1.23	2	<10	<10	<0.5	<2	0.77	<0.5	3	1	7	1.33	<10
I134084		1.84	<0.2	0.98	3	<10	<10	<0.5	<2	0.65	<0.5	7	1	13	1.86	<10
I134085		1.75	<0.2	1.15	2	<10	<10	<0.5	<2	0.95	<0.5	11	1	10	2.84	<10
I134086		0.44	<0.2	0.04	<2	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.04	<10
I134087		1.60	<0.2	2.55	11	<10	<10	<0.5	<2	0.95	<0.5	8	3	4	2.29	10
I134088		1.59	<0.2	1.30	11	<10	<10	<0.5	<2	0.58	<0.5	6	1	8	1.68	<10
I134089		1.83	<0.2	1.59	13	<10	10	<0.5	<2	0.80	<0.5	11	2	15	4.51	<10
I134090		1.59	<0.2	0.25	2	<10	10	<0.5	<2	1.33	<0.5	8	1	19	4.47	<10
I134091		0.09	<0.2	1.16	534	<10	760	<0.5	<2	0.42	<0.5	1	108	25	6.28	10
I134092		2.56	<0.2	0.61	<2	<10	10	<0.5	<2	1.87	<0.5	8	1	25	2.62	<10
I134093		2.36	<0.2	0.96	3	<10	<10	<0.5	<2	2.03	<0.5	8	1	5	2.44	<10
I134094		2.21	<0.2	1.04	3	<10	10	<0.5	<2	2.05	<0.5	7	1	6	1.85	<10
I134095		2.36	<0.2	1.24	2	<10	<10	<0.5	<2	2.24	<0.5	11	1	6	3.13	<10
I134096D		<0.02	<0.2	1.30	<2	<10	<10	<0.5	<2	2.38	<0.5	10	1	5	3.09	<10
I134097		1.98	0.2	0.27	5	<10	10	<0.5	2	1.84	<0.5	30	<1	20	10.85	<10
I134098		1.84	<0.2	0.21	7	<10	10	<0.5	<2	0.28	<0.5	24	<1	16	10.15	<10
I134099		1.65	<0.2	0.42	2	<10	10	<0.5	<2	0.66	<0.5	8	1	6	2.76	<10
I134100		1.93	0.2	0.27	8	<10	10	<0.5	<2	0.32	<0.5	19	1	22	9.22	<10
I134101		2.06	<0.2	1.35	<2	<10	10	<0.5	2	0.35	<0.5	7	1	6	3.09	<10
I134102		1.99	<0.2	1.69	8	<10	10	<0.5	<2	0.37	<0.5	8	1	18	4.03	10
I134103		0.13	29.2	2.11	77	<10	10	<0.5	23	1.49	160.0	51	68	6330	9.19	10
I134104		1.81	<0.2	1.90	6	<10	10	<0.5	<2	0.08	<0.5	6	<1	11	2.96	10
I134105		1.79	<0.2	2.56	2	<10	<10	<0.5	<2	0.05	<0.5	5	<1	4	3.18	10
I134106		1.80	<0.2	2.68	11	<10	<10	<0.5	<2	0.08	<0.5	7	<1	7	3.72	10
I134107		2.19	<0.2	1.25	3	<10	20	<0.5	<2	0.08	<0.5	15	1	9	6.04	<10
I134108		2.22	<0.2	1.47	5	<10	10	<0.5	2	0.06	<0.5	31	<1	7	7.28	<10
I134109D		<0.02	<0.2	1.63	6	<10	20	<0.5	<2	0.06	<0.5	30	1	8	7.55	<10
I134110		2.31	<0.2	1.40	4	<10	10	<0.5	<2	0.05	<0.5	20	<1	6	6.61	<10
I134111		2.00	<0.2	2.03	<2	<10	20	<0.5	<2	0.06	<0.5	4	24	5	1.88	10
I134112		1.82	<0.2	2.10	<2	<10	10	<0.5	<2	0.10	<0.5	4	<1	2	1.88	10
I134113		1.90	<0.2	1.54	<2	<10	10	<0.5	<2	0.06	<0.5	8	1	4	3.48	<10
I134114		1.48	0.3	1.86	14	<10	10	<0.5	<2	0.06	<0.5	10	<1	9	3.60	<10
I134115		0.40	0.5	1.39	17	<10	10	<0.5	<2	0.12	<0.5	7	1	8	2.64	<10
I134116		1.29	0.3	1.59	10	<10	10	<0.5	<2	0.33	<0.5	12	1	8	3.18	<10
I134117		1.67	0.2	0.28	8	<10	10	<0.5	2	0.27	<0.5	32	1	19	7.32	<10
I134118		0.36	<0.2	0.05	2	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.06	<10
I134119		1.61	0.6	0.39	22	<10	20	<0.5	2	0.59	<0.5	27	1	30	8.56	<10
I134120		1.53	0.3	1.08	6	<10	<10	<0.5	3	0.24	<0.5	7	1	10	2.41	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I134081D		<1	0.10	<10	1.87	325	5	0.04	<1	170	<2	5.77	<2	2	6	<20
I134082		<1	0.09	<10	1.42	261	4	0.03	<1	220	<2	2.23	<2	2	6	<20
I134083		<1	0.08	<10	1.88	331	4	0.03	<1	170	<2	0.31	<2	2	7	<20
I134084		<1	0.07	<10	1.89	266	8	0.03	<1	100	<2	1.02	<2	2	6	<20
I134085		<1	0.06	<10	3.40	369	4	0.04	<1	130	<2	1.42	<2	3	8	<20
I134086		<1	<0.01	<10	1.64	28	<1	0.01	<1	40	<2	0.06	<2	<1	4790	20
I134087		<1	0.02	<10	3.97	437	4	0.02	<1	120	<2	0.52	3	5	11	<20
I134088		<1	0.06	<10	1.89	226	7	0.03	<1	210	2	0.67	2	2	11	<20
I134089		<1	0.08	<10	2.15	275	10	0.04	<1	450	<2	3.76	<2	2	8	<20
I134090		<1	0.07	<10	0.74	257	5	0.04	<1	130	<2	4.63	<2	1	7	<20
I134091		9	0.18	20	0.05	34	4	0.06	10	370	8	0.45	40	2	199	<20
I134092		<1	0.06	<10	1.36	290	6	0.04	<1	60	<2	1.93	<2	2	10	<20
I134093		<1	0.06	<10	1.85	298	5	0.05	<1	50	<2	1.39	<2	3	11	<20
I134094		<1	0.06	<10	1.80	318	2	0.05	<1	30	<2	0.74	<2	3	11	<20
I134095		<1	0.06	<10	2.27	399	2	0.06	<1	50	<2	1.75	<2	3	11	<20
I134096D		<1	0.07	<10	2.38	428	2	0.06	<1	50	<2	1.57	<2	3	12	<20
I134097		<1	0.08	<10	1.13	304	16	0.05	<1	240	2	>10.0	<2	2	7	<20
I134098		<1	0.09	<10	0.14	58	13	0.03	<1	10	2	>10.0	<2	1	3	<20
I134099		<1	0.06	<10	1.47	228	8	0.04	<1	60	<2	1.89	<2	2	5	<20
I134100		<1	0.07	<10	0.58	113	9	0.04	<1	20	2	>10.0	<2	1	3	<20
I134101		<1	0.08	<10	1.51	198	3	0.04	<1	70	<2	2.34	<2	2	5	<20
I134102		<1	0.07	<10	1.77	271	4	0.03	<1	160	<2	3.36	<2	2	5	<20
I134103		6	0.25	<10	1.23	460	15	0.13	41	570	6800	8.32	36	5	38	<20
I134104		<1	0.07	<10	1.93	206	4	0.03	<1	80	<2	1.91	<2	2	3	<20
I134105		<1	0.05	<10	2.70	286	<1	0.03	<1	50	<2	1.57	<2	3	3	<20
I134106		<1	0.05	<10	2.91	282	3	0.03	<1	50	<2	2.34	<2	4	3	<20
I134107		<1	0.09	<10	1.13	119	5	0.04	<1	120	<2	6.33	<2	1	4	<20
I134108		<1	0.07	<10	1.43	133	7	0.03	<1	170	<2	7.66	<2	1	3	<20
I134109D		<1	0.09	<10	1.52	144	7	0.04	<1	160	2	7.89	<2	2	3	<20
I134110		<1	0.09	<10	1.28	120	10	0.04	<1	90	<2	6.84	<2	2	3	<20
I134111		1	0.06	<10	2.03	178	4	0.03	6	110	<2	0.40	<2	2	4	<20
I134112		1	0.06	<10	2.21	198	2	0.03	<1	120	<2	0.19	<2	3	5	<20
I134113		<1	0.07	<10	1.88	120	5	0.03	<1	90	<2	8.06	<2	2	4	<20
I134114		<1	0.08	<10	1.81	157	5	0.04	<1	100	<2	2.53	<2	2	4	<20
I134115		<1	0.09	<10	1.37	119	7	0.03	<1	140	3	1.69	<2	2	4	<20
I134116		<1	0.07	<10	1.78	157	9	0.03	<1	100	<2	2.03	<2	2	3	<20
I134117		<1	0.08	<10	0.15	26	18	0.03	<1	200	<2	8.35	<2	1	3	<20
I134118		<1	<0.01	<10	1.63	30	<1	0.01	<1	40	<2	0.08	<2	<1	5340	20
I134119		<1	0.10	<10	0.36	46	28	0.04	<1	300	<2	9.87	<2	1	15	<20
I134120		<1	0.07	<10	1.17	88	11	0.01	3	370	4	1.92	<2	1	17	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Cu- OG46	Zn- OG46	Au- AA23
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001	Zn % 0.001	Au ppm 0.005
I134081D		<0.01	<10	<10	6	<10	40				<0.005
I134082		<0.01	<10	<10	1	<10	32				<0.005
I134083		<0.01	<10	<10	2	<10	27				<0.005
I134084		<0.01	<10	<10	2	<10	23				<0.005
I134085		<0.01	<10	<10	4	<10	38				<0.005
I134086		<0.01	<10	<10	<1	<10	<2				<0.005
I134087		<0.01	<10	<10	5	<10	48				<0.005
I134088		<0.01	<10	<10	2	<10	33				<0.005
I134089		<0.01	<10	<10	3	<10	47				<0.005
I134090		<0.01	<10	<10	<1	<10	12				<0.005
I134091		0.01	10	<10	94	<10	22				0.343
I134092		<0.01	<10	<10	1	<10	25				<0.005
I134093		<0.01	<10	<10	1	<10	27				<0.005
I134094		<0.01	<10	<10	2	<10	20				<0.005
I134095		<0.01	<10	<10	2	<10	33				<0.005
I134096D		<0.01	<10	<10	2	<10	35				<0.005
I134097		<0.01	<10	<10	<1	<10	16				0.005
I134098		<0.01	<10	<10	<1	<10	3				<0.005
I134099		<0.01	<10	<10	<1	<10	36				<0.005
I134100		<0.01	<10	<10	<1	<10	14				<0.005
I134101		<0.01	<10	<10	1	<10	25				<0.005
I134102		<0.01	<10	<10	1	<10	27				<0.005
I134103		0.14	<10	<10	75	30	>10000			2.89	0.048
I134104		<0.01	<10	<10	1	<10	32				<0.005
I134105		<0.01	<10	<10	<1	<10	39				<0.005
I134106		<0.01	<10	<10	2	<10	44				<0.005
I134107		<0.01	<10	<10	1	<10	18				<0.005
I134108		<0.01	<10	<10	<1	<10	29				<0.005
I134109D		<0.01	<10	<10	<1	<10	24				<0.005
I134110		<0.01	<10	<10	1	<10	21				<0.005
I134111		<0.01	<10	<10	<1	<10	31				<0.005
I134112		<0.01	<10	<10	<1	<10	30				<0.005
I134113		<0.01	<10	<10	1	<10	21				<0.005
I134114		<0.01	<10	<10	1	<10	23				<0.005
I134115		<0.01	<10	<10	1	<10	23				0.006
I134116		<0.01	<10	<10	3	<10	48				0.005
I134117		<0.01	<10	<10	1	<10	11				0.005
I134118		<0.01	<10	<10	<1	<10	<2				<0.005
I134119		<0.01	<10	<10	1	<10	23				0.017
I134120		<0.01	<10	<10	2	<10	34				<0.005



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Project: KCC- 2011- 003

CERTIFICATE OF ANALYSIS TR11132695

Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
1134121		1.05	0.8	1.48	9	<10	<10	<0.5	2	0.10	<0.5	9	1	15	3.07	<10
1134122		1.72	<0.2	4.17	<2	<10	<10	<0.5	<2	0.15	<0.5	27	5	12	6.68	10
1134123		1.33	<0.2	3.52	56	<10	<10	<0.5	<2	0.32	<0.5	61	3	42	20.0	10
1134124		1.65	0.4	0.80	37	<10	10	<0.5	<2	0.58	<0.5	56	1	59	15.4	<10
1134125		0.13	>100	1.20	249	<10	60	<0.5	4	0.59	23.1	10	29	6080	5.26	<10
1134126		1.93	0.3	0.50	6	<10	10	<0.5	3	0.06	<0.5	10	<1	17	3.57	<10
1134127		1.56	0.2	1.09	<2	<10	<10	<0.5	3	0.04	<0.5	6	<1	7	2.67	<10
1134128		1.15	<0.2	1.04	<2	<10	20	<0.5	3	0.05	<0.5	10	<1	8	3.65	<10
1134129		0.50	<0.2	0.98	<2	<10	10	<0.5	3	0.05	<0.5	12	<1	8	3.60	<10
1134130		1.07	<0.2	1.19	2	<10	10	<0.5	3	0.05	<0.5	14	1	6	3.09	<10
1134131		1.57	0.2	1.14	2	<10	20	<0.5	2	0.04	<0.5	7	1	11	1.94	<10
1134132		2.54	0.2	0.29	5	<10	20	<0.5	4	0.05	<0.5	14	1	23	4.37	<10
1134133		2.43	0.2	0.27	2	<10	30	<0.5	3	0.05	<0.5	12	<1	21	4.29	<10
1134134		0.28	0.3	0.06	3	<10	<10	<0.5	4	>25.0	<0.5	<1	<1	<1	0.06	<10
1134135		2.81	0.2	0.25	3	<10	10	<0.5	8	0.21	<0.5	16	<1	136	7.62	<10
1134136		2.59	<0.2	0.26	<2	<10	10	<0.5	2	0.12	<0.5	17	1	81	4.89	<10
1134137		2.48	0.2	0.36	<2	<10	<10	<0.5	2	0.07	<0.5	7	1	57	3.40	<10
1134138		2.64	<0.2	0.75	<2	<10	<10	<0.5	3	0.06	<0.5	8	1	147	2.99	<10
1134139		2.70	0.2	0.39	<2	<10	<10	<0.5	3	0.04	<0.5	10	1	36	4.84	<10
1134140D		<0.02	0.2	0.37	<2	<10	<10	<0.5	3	0.04	<0.5	10	2	34	4.85	<10
1134141		0.97	<0.2	1.06	<2	<10	<10	<0.5	3	0.05	<0.5	8	1	5	3.03	<10
1134142		1.64	<0.2	0.97	3	<10	10	<0.5	2	0.05	<0.5	28	1	18	7.20	<10
1134143		1.63	<0.2	1.46	2	<10	10	<0.5	2	0.05	<0.5	13	1	6	3.19	<10
1134144		1.05	<0.2	1.68	3	<10	10	<0.5	<2	0.05	<0.5	9	1	9	2.92	<10
1134145		1.38	<0.2	1.10	6	<10	<10	<0.5	<2	0.08	<0.5	75	1	30	10.55	<10
1134146D		<0.02	<0.2	1.17	5	<10	<10	<0.5	<2	0.08	<0.5	69	1	29	10.45	<10
1134147		1.32	<0.2	1.17	3	<10	<10	<0.5	<2	0.04	<0.5	31	1	9	5.88	<10
1134148		1.46	<0.2	1.83	<2	<10	<10	<0.5	3	0.06	<0.5	3	1	2	1.71	<10
1134149		1.07	<0.2	1.68	<2	<10	<10	<0.5	2	0.05	<0.5	3	1	3	1.67	<10
1134150		1.02	<0.2	0.99	2	<10	<10	<0.5	2	0.04	<0.5	59	2	6	9.22	<10



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CERTIFICATE OF ANALYSIS TR11132695

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
I134121		1	0.10	<10	1.54	110	6	0.03	1	240	4	2.36	<2	1	3	<20
I134122		<1	0.04	<10	5.63	552	<1	0.01	6	570	2	2.93	<2	12	4	<20
I134123		1	0.02	<10	5.07	570	8	0.01	5	1440	13	>10.0	<2	11	8	<20
I134124		2	0.08	<10	3.85	432	4	0.03	5	870	9	>10.0	<2	6	10	<20
I134125		2	0.09	<10	0.73	1565	18	0.05	24	420	9540	2.26	416	4	28	<20
I134126		1	0.11	<10	2.46	306	4	0.04	2	120	5	2.27	<2	1	4	<20
I134127		1	0.10	<10	2.37	291	3	0.03	2	70	<2	1.24	<2	1	4	<20
I134128		1	0.13	<10	1.61	218	2	0.03	<1	130	<2	2.86	<2	1	3	<20
I134129		<1	0.11	<10	1.95	295	2	0.02	<1	70	2	2.47	<2	1	3	<20
I134130		<1	0.11	<10	1.66	265	8	0.02	<1	120	<2	2.03	<2	1	3	<20
I134131		<1	0.11	<10	1.74	273	2	0.02	1	90	2	0.69	<2	1	2	<20
I134132		1	0.13	<10	0.57	106	11	0.02	<1	140	<2	4.25	<2	1	3	<20
I134133		<1	0.13	<10	0.31	64	7	0.02	<1	130	<2	4.30	<2	1	3	<20
I134134		<1	0.01	<10	1.80	38	<1	0.01	2	40	<2	0.09	<2	<1	4590	20
I134135		<1	0.12	<10	0.27	166	6	0.02	<1	160	<2	8.70	<2	<1	6	<20
I134136		<1	0.12	<10	0.11	34	7	0.03	<1	200	<2	5.02	<2	<1	10	<20
I134137		<1	0.11	<10	1.03	154	4	0.03	<1	280	<2	2.90	<2	1	3	<20
I134138		<1	0.10	<10	0.76	127	6	0.02	<1	230	<2	2.44	<2	1	3	<20
I134139		<1	0.11	<10	0.63	115	10	0.03	<1	170	<2	4.56	<2	1	3	<20
I134140D		<1	0.11	<10	0.63	119	10	0.03	<1	160	<2	4.51	<2	1	2	<20
I134141		<1	0.09	<10	1.17	193	4	0.02	<1	180	<2	2.02	<2	1	2	<20
I134142		1	0.12	<10	0.81	132	9	0.03	<1	140	<2	7.55	<2	1	4	<20
I134143		1	0.12	<10	1.29	185	7	0.03	<1	180	<2	2.32	<2	1	3	<20
I134144		1	0.12	<10	1.58	222	10	0.03	<1	170	<2	1.88	<2	1	3	<20
I134145		<1	0.10	<10	1.06	175	35	0.03	1	220	2	>10.0	<2	1	4	<20
I134146D		1	0.10	<10	1.15	185	34	0.03	<1	230	3	>10.0	<2	1	4	<20
I134147		1	0.12	<10	1.09	151	7	0.03	<1	160	2	5.98	<2	1	3	<20
I134148		<1	0.12	<10	1.79	229	2	0.03	<1	220	<2	0.46	<2	1	3	<20
I134149		1	0.11	<10	1.61	208	3	0.03	<1	200	<2	0.53	<2	1	2	<20
I134150		1	0.12	<10	0.82	135	10	0.02	3	180	2	>10.0	<2	1	3	<20



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CERTIFICATE OF ANALYSIS TR11132695

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- DG46	Cu- OG46	Zn- OG46	Au- AA23
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	Zn %	Au ppm
		0.01	10	10	1	10	2	1	0.001	0.001	0.005
1134121		<0.01	<10	<10	2	<10	27				0.006
1134122		<0.01	<10	<10	166	<10	123				<0.005
1134123		<0.01	10	<10	114	<10	146				0.021
1134124		<0.01	<10	<10	60	<10	127				0.008
1134125		0.08	<10	<10	39	<10	4810	100			0.276
1134126		<0.01	<10	<10	3	<10	39				<0.005
1134127		<0.01	<10	<10	2	<10	37				<0.005
1134128		<0.01	<10	<10	1	<10	31				<0.005
1134129		<0.01	<10	<10	1	<10	46				<0.005
1134130		<0.01	<10	<10	1	<10	49				<0.005
1134131		<0.01	<10	<10	1	<10	88				<0.005
1134132		<0.01	<10	<10	<1	<10	83				0.007
1134133		<0.01	<10	<10	<1	<10	56				0.007
1134134		<0.01	<10	<10	<1	<10	<2				<0.005
1134135		<0.01	<10	<10	<1	<10	34				0.005
1134136		<0.01	<10	<10	<1	<10	21				<0.005
1134137		<0.01	<10	<10	1	<10	79				<0.005
1134138		<0.01	<10	<10	<1	<10	54				<0.005
1134139		<0.01	<10	<10	1	<10	40				<0.005
1134140D		<0.01	<10	<10	1	<10	40				<0.005
1134141		<0.01	<10	<10	1	<10	60				<0.005
1134142		<0.01	<10	<10	1	<10	33				<0.005
1134143		<0.01	<10	<10	1	<10	31				<0.005
1134144		<0.01	<10	<10	2	<10	37				<0.005
1134145		<0.01	<10	<10	2	<10	24				0.005
1134146D		<0.01	<10	<10	2	<10	26				<0.005
1134147		<0.01	<10	<10	1	<10	26				<0.005
1134148		<0.01	<10	<10	1	<10	48				<0.005
1134149		<0.01	<10	<10	1	<10	42				<0.005
1134150		<0.01	<10	<10	2	<10	9				<0.005



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CERTIFICATE TR1142522

Project: KCC- 2011- 007
 P.O. No.: 114694
 This report is for 21 Drill Core samples submitted to our lab in Terrace, BC, Canada on 25- JUL- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 BRIAN WILLET

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

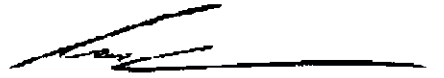
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: KUTCHO COPPER CORP.
 ATTN: VIVIENNE MCLENNAN
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11142522

Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
I134229		1.70	<0.2	0.74	<2	<10	50	<0.5	<2	3.23	<0.5	15	11	213	4.61	<10
I134230		1.14	0.4	0.81	9	<10	80	<0.5	2	4.46	<0.5	21	15	204	5.41	<10
I134231		2.18	0.4	0.69	9	<10	70	<0.5	<2	3.33	<0.5	19	7	217	5.11	<10
I134232		1.62	0.2	0.51	6	<10	90	<0.5	<2	2.18	<0.5	8	6	76	2.94	<10
I134233		1.20	0.2	0.38	7	<10	70	<0.5	<2	2.12	<0.5	9	6	75	3.07	<10
I134234D		<0.02	0.2	0.43	6	<10	80	<0.5	2	2.25	<0.5	8	7	75	3.12	<10
I134235		1.76	0.3	0.54	6	<10	70	<0.5	<2	3.08	<0.5	15	8	151	4.59	<10
I134236		1.31	0.4	0.36	16	<10	40	<0.5	2	5.61	0.6	10	6	23	3.68	<10
I134237		1.12	0.4	0.23	17	<10	40	<0.5	<2	6.07	0.7	7	6	21	3.05	<10
I134238		2.30	0.2	0.76	9	<10	70	<0.5	<2	3.45	<0.5	5	5	20	2.98	<10
I134239		2.15	<0.2	0.29	14	<10	90	<0.5	2	3.32	<0.5	4	3	15	2.72	<10
I134240		2.11	0.2	0.38	12	<10	70	<0.5	2	4.79	<0.5	4	3	25	2.91	<10
I134241		2.22	0.2	0.39	8	<10	40	<0.5	<2	3.77	<0.5	4	3	14	2.70	<10
I134242D		<0.02	<0.2	0.45	9	<10	50	<0.5	2	3.81	<0.5	5	3	15	2.83	<10
I134243		1.99	0.4	1.05	8	<10	60	<0.5	2	2.02	<0.5	8	4	21	3.58	<10
I134244		2.03	<0.2	1.15	2	<10	50	<0.5	<2	2.24	<0.5	8	7	29	3.82	<10
I134245		2.04	<0.2	2.45	11	<10	30	<0.5	3	2.32	<0.5	12	6	37	5.16	10
I134246		2.09	<0.2	1.68	7	<10	10	<0.5	<2	3.27	<0.5	5	4	25	2.23	<10
I134247		0.79	2.9	0.05	2	<10	10	<0.5	<2	>25.0	<0.5	1	1	<1	0.05	<10
I134248		2.70	<0.2	1.74	6	<10	10	<0.5	<2	1.76	<0.5	6	2	25	2.41	<10
I134249		1.97	0.2	1.63	16	<10	10	<0.5	<2	1.36	<0.5	7	2	89	2.91	<10



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Project: KCC- 2011- 007

CERTIFICATE OF ANALYSIS TR11142522

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
1134229		<1	0.20	<10	1.24	1030	5	0.03	17	2700	2	1.62	<2	2	130	<20
1134230		<1	0.25	10	1.52	1200	16	0.05	25	2930	2	2.33	<2	3	166	<20
1134231		<1	0.25	10	1.27	707	3	0.04	24	3020	<2	2.60	<2	2	132	<20
1134232		<1	0.27	10	0.77	342	5	0.03	33	590	10	1.97	<2	2	56	<20
1134233		<1	0.19	<10	0.72	390	3	0.02	28	760	<2	1.83	<2	2	64	<20
1134234D		<1	0.22	<10	0.76	422	3	0.02	29	760	<2	1.75	<2	2	68	<20
1134235		<1	0.21	10	1.27	630	3	0.02	34	1660	<2	2.26	<2	2	88	<20
1134236		<1	0.15	<10	0.87	689	11	0.03	32	1040	96	3.32	<2	3	178	<20
1134237		<1	0.11	10	0.47	580	11	0.03	33	470	64	3.03	<2	3	203	<20
1134238		<1	0.18	10	0.85	346	<1	0.05	10	510	9	1.53	<2	4	79	<20
1134239		<1	0.11	<10	0.77	343	2	0.03	8	320	9	1.59	2	4	73	<20
1134240		<1	0.13	<10	0.83	394	2	0.04	9	360	10	1.62	<2	4	123	<20
1134241		1	0.11	<10	0.77	356	2	0.03	10	310	8	1.44	<2	3	81	<20
1134242D		<1	0.13	<10	0.77	366	2	0.03	10	320	11	1.52	<2	4	83	<20
1134243		<1	0.17	<10	0.76	277	3	0.04	10	340	38	2.07	<2	3	42	<20
1134244		<1	0.13	<10	1.11	330	1	0.03	10	280	3	0.70	<2	7	68	<20
1134245		<1	0.18	<10	1.57	550	1	0.02	6	450	<2	0.79	4	5	59	<20
1134246		<1	0.08	<10	0.84	396	2	0.04	1	380	<2	0.23	<2	2	93	<20
1134247		<1	0.01	<10	1.74	28	<1	0.01	<1	50	<2	0.12	<2	<1	4820	20
1134248		<1	0.07	<10	1.06	378	1	0.05	<1	410	<2	0.23	<2	2	43	<20
1134249		<1	0.09	<10	1.00	352	6	0.04	1	320	4	0.81	2	2	30	<20



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CERTIFICATE OF ANALYSIS TR11142522

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- AA23
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Au ppm 0.005
I134229		<0.01	<10	<10	27	<10	112	<0.005
I134230		<0.01	<10	<10	29	<10	137	<0.005
I134231		<0.01	<10	<10	19	<10	118	<0.005
I134232		<0.01	<10	<10	12	<10	135	<0.005
I134233		<0.01	<10	<10	9	<10	72	<0.005
I134234D		<0.01	<10	<10	10	<10	74	<0.005
I134235		<0.01	<10	<10	15	<10	119	<0.005
I134236		<0.01	<10	<10	9	<10	170	<0.005
I134237		<0.01	<10	<10	7	<10	168	<0.005
I134238		<0.01	<10	<10	13	<10	112	<0.005
I134239		<0.01	<10	<10	8	<10	135	0.032
I134240		<0.01	<10	<10	10	<10	117	<0.005
I134241		<0.01	<10	<10	10	<10	127	<0.005
I134242D		<0.01	<10	<10	10	<10	124	<0.005
I134243		<0.01	<10	<10	15	<10	133	<0.005
I134244		<0.01	<10	<10	26	<10	107	<0.005
I134245		0.21	<10	<10	47	<10	97	<0.005
I134246		0.10	<10	<10	8	<10	57	<0.005
I134247		<0.01	<10	<10	<1	<10	<2	<0.005
I134248		0.10	<10	<10	10	<10	72	<0.005
I134249		0.08	<10	<10	10	<10	71	<0.005



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CERTIFICATE TR11142523

Project: KCC- 2011- 006

P.O. No.: 114694

This report is for 19 Drill Core samples submitted to our lab in Terrace, BC, Canada on 25- JUL- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRAD MERCER
BRIAN WILLET

MARISSA LOE
TARAS NAHNYBIDA

VIVIENNE MCLENNAN
DANIEL NG

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11142523

Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
I134210		0.80	<0.2	3.55	25	<10	<10	<0.5	2	12.0	<0.5	23	55	81	4.36	10
I134211		1.50	<0.2	3.68	30	<10	10	<0.5	<2	6.67	<0.5	28	52	82	4.45	10
I134212		1.05	0.5	1.18	<2	<10	80	<0.5	<2	0.14	<0.5	4	3	31	3.05	<10
I134213		1.06	2.3	0.99	<2	<10	50	<0.5	2	0.85	3.0	4	10	311	5.79	<10
I134214D		<0.02	1.7	1.03	4	<10	80	<0.5	<2	0.97	2.6	4	10	262	5.03	<10
I134215		1.48	0.4	0.71	20	<10	80	<0.5	<2	0.27	<0.5	1	2	17	2.01	<10
I134216		0.35	4.3	0.46	199	<10	20	<0.5	<2	0.14	0.5	<1	11	80	9.28	<10
I134217		1.92	0.6	0.64	106	<10	70	<0.5	<2	0.27	0.9	3	10	61	3.36	<10
I134218		0.52	5.9	0.53	420	<10	10	<0.5	<2	4.18	11.3	<1	1	384	20.4	<10
I134219		0.13	26.5	1.93	74	<10	<10	<0.5	20	1.30	155.5	48	63	6200	8.33	10
I134220		2.11	1.6	0.23	196	<10	50	<0.5	<2	0.08	13.1	2	1	231	2.91	<10
I134221		2.14	2.1	0.24	167	<10	50	<0.5	<2	0.17	19.4	3	2	261	3.32	<10
I134222		2.27	2.7	0.23	45	<10	40	<0.5	<2	0.12	24.0	2	3	626	4.84	<10
I134223		2.31	1.5	0.34	42	<10	70	<0.5	<2	0.15	14.5	3	2	308	2.66	<10
I134224D		<0.02	1.7	0.28	37	<10	60	<0.5	<2	0.14	16.7	2	2	334	2.72	<10
I134225		2.37	1.6	0.49	110	<10	70	<0.5	<2	0.14	13.3	3	1	351	2.61	<10
I134226		1.73	0.3	2.29	35	<10	30	<0.5	<2	2.39	<0.5	12	32	59	3.83	10
I134227		1.19	0.2	1.93	20	<10	20	<0.5	<2	1.85	<0.5	3	15	30	3.13	10
I134228		0.51	0.6	0.04	6	<10	<10	<0.5	<2	>25.0	<0.5	<1	1	<1	0.05	<10



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Project: KCC- 2011- 006

CERTIFICATE OF ANALYSIS TR11142523

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I134210		<1	0.08	<10	3.22	1250	<1	0.02	13	330	<2	0.09	<2	14	453	<20
I134211		<1	0.09	<10	3.48	1050	<1	0.02	14	160	<2	0.11	<2	11	240	<20
I134212		<1	0.19	<10	1.03	266	4	0.01	3	210	5	1.61	<2	2	14	<20
I134213		<1	0.15	10	0.92	360	63	0.01	50	1590	47	3.35	<2	1	25	<20
I134214D		<1	0.16	10	0.95	386	66	0.01	43	1590	39	2.93	<2	1	27	<20
I134215		<1	0.16	<10	0.61	252	15	0.01	<1	100	6	1.52	<2	1	10	<20
I134216		<1	0.09	<10	0.40	239	34	<0.01	14	190	73	>10.0	4	<1	8	<20
I134217		<1	0.15	<10	0.54	282	7	0.01	3	210	6	3.23	<2	1	10	<20
I134218		<1	0.11	<10	0.43	1500	37	0.01	<1	270	201	>10.0	16	1	106	<20
I134219		6	0.22	<10	1.08	431	14	0.11	36	560	6380	8.59	36	5	37	<20
I134220		1	0.17	<10	0.03	45	8	<0.01	<1	90	84	3.45	8	<1	8	<20
I134221		1	0.18	<10	0.03	62	10	0.01	<1	90	54	4.00	5	1	9	<20
I134222		1	0.17	<10	0.02	41	6	0.01	<1	90	130	6.36	<2	1	7	<20
I134223		1	0.22	<10	0.11	61	6	0.01	<1	140	93	3.06	<2	1	8	<20
I134224D		1	0.18	<10	0.09	56	6	0.01	<1	130	98	3.14	<2	1	8	<20
I134225		1	0.23	<10	0.29	84	8	0.01	<1	110	60	2.87	2	1	8	<20
I134226		<1	0.17	<10	2.48	605	25	0.03	10	2100	2	2.72	<2	3	51	<20
I134227		<1	0.13	<10	2.12	460	17	0.04	3	780	5	1.99	<2	4	41	<20
I134228		<1	0.01	<10	2.03	31	<1	0.02	2	50	<2	0.08	<2	<1	5100	20



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Project: KCC- 2011- 006

CERTIFICATE OF ANALYSIS TR11142523

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Cu- OG46	Zn- OG46	Au- AA23
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Cu %	Zn %	Au ppm
		0.01	10	10	1	10	2	0.001	0.001	0.005
I134210		0.09	<10	<10	107	<10	47			<0.005
I134211		0.04	<10	<10	98	<10	50			<0.005
I134212		<0.01	<10	<10	4	<10	78			<0.005
I134213		<0.01	<10	<10	30	<10	518			<0.005
I134214D		<0.01	<10	<10	30	<10	491			<0.005
I134215		<0.01	<10	<10	2	<10	76			<0.005
I134216		<0.01	<10	<10	18	<10	109			0.060
I134217		0.01	<10	<10	6	<10	253			0.006
I134218		<0.01	10	<10	3	<10	3090		0.333	0.113
I134219		0.13	10	<10	69	20	>10000	0.614	3.18	0.056
I134220		<0.01	<10	<10	<1	<10	4870		0.511	0.014
I134221		<0.01	10	<10	<1	<10	6270		0.616	0.017
I134222		<0.01	<10	<10	1	<10	7950		0.752	0.015
I134223		0.01	<10	<10	<1	<10	5150		0.515	0.008
I134224D		<0.01	<10	<10	<1	<10	5910		0.574	0.006
I134225		0.01	<10	<10	1	<10	4750		0.473	0.008
I134226		0.06	<10	<10	28	<10	311			<0.005
I134227		0.03	<10	<10	25	<10	145			<0.005
I134228		<0.01	<10	<10	<1	<10	2			<0.005



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CERTIFICATE TR11142524

Project: KCC- 2011- 005
 P.O. No.: 114694
 This report is for 7 Drill Core samples submitted to our lab in Terrace, BC, Canada on 26- JUL- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 BRIAN WILLET

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 22d	Sample login - Rcd w/o BarCode dup
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS

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 ATTN: VIVIENNE MCLENNAN
 999 WEST HASTINGS STREET, SUITE 900
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



Colin Ramshaw, Vancouver Laboratory Manager



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Project: KCC- 2011- 005

CERTIFICATE OF ANALYSIS TR11142524

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I134203		0.80	0.033	1.4	0.57	209	<10	60	<0.5	3	3.87	3.4	2	9	119	5.96
I134204		0.55	0.011	0.6	1.12	87	<10	60	<0.5	3	1.30	2.1	3	13	110	2.77
I134205		1.49	0.017	0.8	1.03	74	<10	70	<0.5	<2	0.96	6.9	1	1	384	3.75
I134206		1.62	0.053	2.8	1.45	79	<10	20	<0.5	3	0.26	3.6	3	<1	229	7.67
I134207D		<0.02	0.062	2.9	1.35	78	<10	20	<0.5	3	0.26	3.8	2	<1	200	7.31
I134208		1.78	<0.005	0.2	1.17	5	<10	60	<0.5	2	0.44	0.7	2	3	30	2.59
I134209		0.79	<0.005	<0.2	0.84	3	<10	50	<0.5	2	0.38	<0.5	2	2	4	1.84



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CERTIFICATE OF ANALYSIS TR11142524

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	NI ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
1134203		<10	1	0.16	<10	1.70	308	99	0.05	59	1730	32	6.93	4	5	80
1134204		<10	<1	0.12	10	1.42	241	21	0.05	60	1060	11	2.39	2	6	37
1134205		<10	<1	0.15	<10	1.40	202	58	0.02	3	140	14	3.86	3	4	22
1134206		<10	<1	0.21	<10	1.62	246	5	0.02	<1	120	79	8.58	3	3	16
1134207D		<10	<1	0.18	<10	1.81	244	4	0.01	<1	110	103	8.29	3	3	15
1134208		<10	<1	0.14	<10	1.58	367	1	0.04	<1	230	100	0.77	<2	5	25
1134209		<10	1	0.14	<10	0.97	216	1	0.03	<1	160	<2	0.35	3	4	21



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CERTIFICATE OF ANALYSIS TR11142524

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
1134203		<20	<0.01	<10	<10	47	<10	446
1134204		<20	<0.01	<10	<10	53	<10	317
1134205		<20	<0.01	<10	<10	6	<10	1660
1134206		<20	<0.01	<10	<10	2	<10	1230
1134207D		<20	<0.01	<10	<10	2	<10	1410
1134208		<20	<0.01	<10	<10	3	<10	280
1134209		<20	<0.01	<10	<10	2	<10	32



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CERTIFICATE TR11142525

Project: KCC- 2011- 004
 P.O. No.: 114694
 This report is for 52 Drill Core samples submitted to our lab in Terrace, BC, Canada on 26- JUL- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 BRIAN WILLET

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
CRU- 31	Fine crushing - 70% < 2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
LOG- 21	Sample logging - ClientBarCode
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 22d	Sample login - Rcd w/o BarCode dup

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11142525

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA23 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
I134151		1.61	0.013	0.3	1.34	4	<10	30	<0.5	<2	3.30	<0.5	23	28	61	3.42
I134152		1.12	0.023	0.4	1.58	4	<10	40	<0.5	<2	3.27	<0.5	33	25	50	4.50
I134153		2.05	<0.005	0.3	0.37	5	<10	40	<0.5	<2	5.62	<0.5	12	12	54	2.51
I134154		2.09	0.005	0.3	0.39	5	<10	50	<0.5	<2	4.97	<0.5	13	11	36	2.37
I134155		2.18	0.013	0.3	0.27	7	<10	60	<0.5	<2	3.59	<0.5	20	4	78	2.52
I134156D		<0.02	0.012	0.4	0.39	7	<10	70	<0.5	<2	3.38	<0.5	20	5	79	2.66
I134157		1.47	0.021	1.3	0.24	22	<10	50	<0.5	2	1.83	16.8	12	1	230	5.01
I134158		1.27	0.363	27.6	0.18	80	<10	30	<0.5	3	4.82	57.6	<1	<1	4580	23.9
I134159		1.03	0.510	28.4	0.17	80	<10	20	<0.5	8	6.16	39.4	<1	<1	5970	19.1
I134160		0.13	0.888	59.5	0.66	36	<10	30	<0.5	34	0.82	66.1	90	28	>10000	25.7
I134161		2.55	0.074	6.6	0.36	52	<10	50	<0.5	<2	2.92	39.7	7	1	1490	9.58
I134162		2.61	0.064	5.2	0.30	40	<10	60	<0.5	2	0.54	32.2	4	1	2430	6.41
I134163		2.59	0.027	1.7	0.57	21	<10	40	<0.5	<2	1.89	3.9	40	1	317	12.45
I134164		2.07	0.120	5.7	0.32	91	<10	30	<0.5	<2	1.82	36.4	<1	<1	2950	12.20
I134165		0.41	<0.005	3.2	0.04	<2	<10	20	<0.5	<2	>25.0	<0.5	1	1	11	0.08
I134166		2.15	0.006	0.3	0.40	10	<10	40	<0.5	<2	1.20	<0.5	3	1	27	3.41
I134167		2.47	<0.005	<0.2	1.93	4	<10	50	<0.5	<2	0.54	<0.5	4	1	14	3.07
I134168		2.31	<0.005	0.2	0.42	13	<10	50	<0.5	<2	2.84	<0.5	2	1	23	4.25
I134169		1.97	<0.005	0.2	1.06	21	<10	50	<0.5	<2	0.40	<0.5	4	1	16	4.28
I134170		2.23	<0.005	0.2	0.83	10	<10	30	<0.5	<2	3.11	<0.5	3	1	7	2.59
I134171D		<0.02	<0.005	0.2	0.98	10	<10	30	<0.5	<2	2.78	<0.5	3	1	7	2.66
I134172		2.30	0.009	1.7	0.73	22	<10	40	<0.5	<2	2.17	3.8	3	<1	55	4.06
I134173		2.59	0.005	1.0	0.46	29	<10	30	<0.5	2	6.10	<0.5	81	<1	51	10.45
I134174		1.57	0.048	3.0	0.14	41	<10	30	<0.5	3	1.17	<0.5	269	<1	1050	21.8
I134175		0.89	0.017	3.1	0.33	126	<10	30	<0.5	3	8.6	1.5	9	<1	7270	11.85
I134176D		<0.02	0.011	3.1	0.23	124	<10	30	<0.5	<2	8.9	1.3	9	<1	7060	11.60
I134177		2.21	0.258	21.0	0.17	265	<10	20	<0.5	17	0.56	19.3	133	<1	>10000	19.9
I134178		2.15	0.241	18.0	0.16	239	<10	20	<0.5	27	1.31	122.5	158	<1	7550	22.2
I134179		1.02	0.989	83.0	0.02	266	<10	20	<0.5	88	5.41	89.2	59	<1	>10000	20.5
I134180		1.01	0.908	>100	0.05	524	<10	<10	<0.5	131	5.45	178.0	73	<1	>10000	21.8
I134181		0.14	1.890	>100	1.34	44	<10	10	<0.5	154	0.34	62.6	154	25	>10000	30.7
I134182		1.78	0.201	41.9	0.16	276	<10	10	<0.5	46	3.04	179.5	<1	<1	>10000	25.8
I134183		1.99	0.253	42.8	0.11	191	<10	10	<0.5	48	1.93	29.2	<1	<1	>10000	26.3
I134184		1.99	0.144	22.4	0.16	126	<10	10	<0.5	30	1.00	33.9	69	<1	9100	25.6
I134185		1.99	0.123	14.9	0.10	78	<10	<10	<0.5	30	1.95	1.3	200	<1	8420	25.3
I134186		0.41	<0.005	0.4	0.04	<2	<10	<10	<0.5	<2	>25.0	<0.5	2	<1	122	0.32
I134187		2.44	0.099	7.1	0.12	71	<10	10	<0.5	12	2.81	44.5	96	<1	4550	24.5
I134188		1.39	0.040	2.3	0.24	23	<10	10	<0.5	<2	7.7	39.1	15	<1	1380	17.2
I134189		1.37	0.113	15.5	0.74	65	<10	20	<0.5	<2	2.25	6.6	16	1	5240	22.6
I134190		1.60	0.223	26.3	0.38	157	<10	10	<0.5	9	0.11	2.7	25	1	>10000	26.9



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CERTIFICATE OF ANALYSIS TR11142525

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
I134151		<10	<1	0.12	<10	1.32	751	<1	0.02	23	200	5	1.54	<2	5	49
I134152		<10	<1	0.17	<10	1.45	982	<1	0.04	29	270	7	1.86	<2	6	59
I134153		<10	<1	0.12	<10	0.65	1465	<1	0.04	13	490	6	0.91	<2	4	83
I134154		<10	<1	0.16	<10	0.85	1130	4	0.04	15	660	7	1.34	<2	3	55
I134155		<10	<1	0.15	<10	0.99	495	6	0.03	26	260	8	2.48	<2	2	34
I134156D		<10	<1	0.20	<10	1.00	497	6	0.04	26	260	7	2.56	<2	3	34
I134157		<10	1	0.13	<10	0.89	273	29	0.03	5	560	39	6.22	<2	2	18
I134158		<10	2	0.04	<10	3.29	1420	51	0.06	<1	840	65	>10.0	<2	3	41
I134159		<10	2	0.03	<10	5.03	2060	105	0.05	2	830	242	>10.0	2	4	63
I134160		10	1	0.07	<10	1.05	500	8	0.01	12	70	2410	>10.0	8	1	4
I134161		<10	2	0.15	<10	2.10	883	28	0.05	1	230	531	>10.0	3	2	33
I134162		<10	1	0.11	<10	1.02	198	14	0.05	<1	200	78	7.80	3	1	12
I134163		<10	<1	0.11	<10	2.41	663	5	0.10	<1	270	100	>10.0	<2	3	23
I134164		<10	2	0.04	<10	1.45	485	50	0.07	7	300	122	>10.0	3	4	17
I134165		<10	<1	<0.01	<10	2.10	26	<1	0.02	<1	40	2	0.15	<2	<1	5210
I134166		<10	<1	0.05	<10	2.77	263	4	0.07	1	180	5	2.84	<2	3	20
I134167		<10	<1	0.09	<10	3.40	255	2	0.07	1	40	3	1.87	<2	3	26
I134168		<10	<1	0.08	<10	2.49	527	14	0.09	2	310	5	4.26	<2	4	22
I134169		<10	1	0.10	<10	3.24	172	22	0.13	1	10	7	3.71	<2	3	10
I134170		<10	<1	0.03	<10	3.13	346	13	0.09	<1	30	4	2.20	<2	6	23
I134171D		<10	<1	0.04	<10	2.95	319	13	0.11	<1	30	4	2.20	<2	6	22
I134172		<10	1	0.03	<10	3.47	373	14	0.10	<1	60	164	4.21	3	6	24
I134173		<10	<1	0.05	<10	4.59	2240	8	0.12	<1	90	83	>10.0	5	7	37
I134174		<10	1	0.03	<10	1.10	387	<1	0.03	<1	<10	56	>10.0	6	1	7
I134175		<10	<1	0.03	<10	5.82	3250	11	0.10	<1	110	44	>10.0	13	5	43
I134176D		<10	<1	0.02	<10	6.23	3480	10	0.07	<1	130	42	>10.0	12	5	44
I134177		<10	2	0.02	<10	0.27	111	1	0.04	<1	340	49	>10.0	10	1	8
I134178		<10	5	0.01	<10	0.64	244	11	0.02	<1	790	125	>10.0	10	1	15
I134179		<10	7	<0.01	<10	3.96	2040	14	0.01	<1	290	1275	>10.0	19	1	19
I134180		10	14	0.01	<10	4.10	1740	34	0.03	<1	1110	187	>10.0	28	2	15
I134181		20	1	0.06	<10	1.54	390	8	0.02	9	90	1555	>10.0	<2	3	1
I134182		10	13	0.03	<10	1.68	802	20	0.07	<1	50	231	>10.0	6	2	9
I134183		10	3	0.02	<10	0.94	493	5	0.04	<1	760	124	>10.0	4	1	5
I134184		10	2	0.03	<10	0.45	294	2	0.06	<1	650	76	>10.0	<2	1	3
I134185		10	1	0.02	<10	0.99	609	1	0.04	<1	630	62	>10.0	<2	1	5
I134186		<10	<1	<0.01	<10	2.02	44	<1	0.03	<1	70	<2	0.42	<2	<1	5250
I134187		10	3	0.02	<10	1.38	955	4	0.05	<1	1370	76	>10.0	<2	1	16
I134188		<10	2	0.04	<10	4.66	4670	8	0.07	<1	510	90	>10.0	4	3	45
I134189		<10	1	0.16	<10	1.22	1120	17	0.18	<1	310	70	>10.0	3	2	16
I134190		<10	1	0.13	<10	0.05	47	22	0.09	<1	10	52	>10.0	16	1	6



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Cu- OG46	Zn- OG46
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	Zn %
		20	0.01	10	10	1	10	2	1	0.001	0.001
I134151		<20	<0.01	<10	<10	24	<10	40			
I134152		<20	<0.01	<10	<10	34	<10	61			
I134153		<20	<0.01	<10	<10	12	<10	57			
I134154		<20	<0.01	<10	<10	9	<10	48			
I134155		<20	<0.01	<10	<10	4	<10	119			
I134156D		<20	<0.01	<10	<10	6	<10	112			
I134157		<20	<0.01	<10	<10	3	<10	3100			
I134158		<20	<0.01	<10	<10	5	20	>10000			1.315
I134159		<20	<0.01	<10	<10	5	10	7390			
I134160		<20	0.01	10	<10	9	20	>10000	1.500		2.91
I134161		<20	<0.01	<10	<10	2	10	7800			
I134162		<20	<0.01	<10	<10	1	<10	5520			
I134163		<20	<0.01	<10	<10	6	<10	888			
I134164		<20	<0.01	<10	<10	7	10	6950			
I134165		20	<0.01	<10	<10	<1	<10	27			
I134166		<20	<0.01	<10	<10	3	<10	205			
I134167		<20	<0.01	<10	<10	3	<10	187			
I134168		<20	<0.01	<10	<10	2	<10	107			
I134169		<20	<0.01	<10	<10	3	<10	127			
I134170		<20	<0.01	<10	<10	2	<10	92			
I134171D		<20	<0.01	<10	<10	2	<10	93			
I134172		<20	<0.01	<10	<10	3	<10	1740			
I134173		<20	<0.01	<10	<10	2	<10	124			
I134174		<20	<0.01	<10	<10	2	<10	58			
I134175		<20	<0.01	<10	<10	3	<10	116			
I134176D		<20	<0.01	<10	<10	3	<10	123			
I134177		<20	<0.01	<10	<10	3	<10	2590		1.180	
I134178		<20	<0.01	<10	<10	8	10	>10000			1.725
I134179		<20	<0.01	<10	<10	8	20	>10000		4.24	1.860
I134180		<20	<0.01	<10	<10	9	10	>10000	95	5.01	3.54
I134181		<20	0.01	<10	<10	14	10	>10000	113	5.11	2.38
I134182		<20	<0.01	<10	<10	5	10	>10000		1.815	5.19
I134183		<20	<0.01	<10	<10	4	<10	6270		1.530	
I134184		<20	<0.01	<10	<10	4	<10	6950			
I134185		<20	<0.01	<10	<10	3	<10	321			
I134186		20	<0.01	<10	30	<1	<10	49			
I134187		<20	<0.01	<10	<10	4	10	9280			
I134188		<20	<0.01	<10	10	4	<10	7510			
I134189		<20	<0.01	<10	<10	3	<10	1530			
I134190		<20	<0.01	<10	<10	3	<10	418		1.090	



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CERTIFICATE OF ANALYSIS TR11142525

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I134191		2.70	0.007	0.5	0.69	16	<10	30	<0.5	<2	1.20	0.8	19	3	196	8.69
I134192		2.51	0.014	0.6	0.41	18	<10	30	<0.5	<2	0.21	<0.5	33	2	75	12.50
I134193		2.63	0.006	0.4	0.69	19	<10	50	<0.5	<2	0.74	<0.5	20	7	34	7.30
I134194		2.74	0.017	1.2	0.40	29	<10	50	<0.5	<2	1.12	<0.5	16	2	33	8.54
I134195D		<0.02	0.017	1.1	0.68	30	<10	50	<0.5	<2	0.91	<0.5	17	2	34	9.13
I134196		2.22	0.013	1.3	0.49	23	<10	20	<0.5	4	0.18	<0.5	17	1	83	18.70
I134197		2.40	0.008	1.3	1.80	28	<10	40	<0.5	3	0.84	2.3	14	2	137	16.40
I134198		1.71	0.005	1.7	1.50	24	<10	30	<0.5	2	0.56	23.9	9	2	1245	10.25
I134199		2.60	0.011	0.4	1.08	5	<10	20	<0.5	4	0.14	<0.5	54	2	74	15.70
I134200		1.60	<0.005	<0.2	1.69	6	<10	20	<0.5	<2	0.33	<0.5	5	1	210	3.39
I134201D		<0.02	<0.005	<0.2	1.39	5	<10	20	<0.5	2	0.31	<0.5	6	1	207	3.16
I134202		1.00	<0.005	<0.2	2.58	5	<10	20	<0.5	<2	0.24	<0.5	6	1	14	3.05



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CERTIFICATE OF ANALYSIS TR11142525

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
I134191		<10	<1	0.14	<10	0.92	392	14	0.13	3	20	8	>10.0	<2	3	13
I134192		<10	<1	0.16	<10	0.22	93	15	0.07	<1	<10	10	>10.0	<2	1	5
I134193		<10	<1	0.20	<10	1.82	299	8	0.08	23	20	8	8.25	<2	2	8
I134194		<10	<1	0.14	<10	1.52	366	8	0.05	<1	10	15	>10.0	<2	2	32
I134195D		<10	<1	0.21	<10	1.61	344	7	0.07	<1	10	16	>10.0	<2	2	25
I134196		<10	<1	0.19	<10	0.12	48	12	0.07	<1	<10	45	>10.0	2	1	9
I134197		<10	<1	0.15	<10	2.59	442	9	0.07	<1	10	91	>10.0	2	4	13
I134198		<10	1	0.11	<10	1.91	223	14	0.05	<1	10	6	>10.0	<2	2	8
I134199		<10	<1	0.21	<10	0.96	127	28	0.06	<1	20	5	>10.0	<2	1	7
I134200		<10	<1	0.09	<10	2.86	323	9	0.02	<1	250	2	2.79	<2	2	10
I134201D		<10	<1	0.07	<10	2.52	283	9	0.01	<1	270	<2	2.71	<2	2	10
I134202		10	<1	0.06	<10	3.93	408	13	0.01	<1	120	2	2.00	<2	3	5



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CERTIFICATE OF ANALYSIS TR11142525

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Cu- OG46	Zn- OG46
		Th	Tl	Tl	U	V	W	Zn	Ag	Cu	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		20	0.01	10	10	1	10	2	1	0.001	0.001
1134191		<20	<0.01	<10	<10	3	<10	316			
1134192		<20	<0.01	<10	<10	2	<10	40			
1134193		<20	<0.01	<10	<10	3	<10	201			
1134194		<20	<0.01	<10	<10	2	<10	130			
1134195D		<20	<0.01	<10	<10	2	<10	141			
1134196		<20	<0.01	<10	<10	1	<10	28			
1134197		<20	<0.01	<10	<10	3	<10	455			
1134198		<20	<0.01	<10	<10	2	<10	2120			
1134199		<20	<0.01	<10	<10	4	<10	58			
1134200		<20	<0.01	<10	<10	3	<10	83			
1134201D		<20	<0.01	<10	<10	2	<10	73			
1134202		<20	<0.01	<10	<10	4	<10	97			



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CERTIFICATE TR1149227

Project: KCC- 2011- 008
 P.O. No.: 114694
 This report is for 72 Drill Core samples submitted to our lab in Terrace, BC, Canada on 2- AUG- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 BRIAN WILLET

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
SPL- 34	Pulp Splitting Charge
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11149227

Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
I134250		2.89	0.2	5.72	8	<10	10	<0.5	2	0.98	18.0	31	128	1760	8.21	20
I134251		2.87	<0.2	5.26	4	<10	10	<0.5	<2	1.16	4.5	32	128	500	7.18	20
I134252		2.66	<0.2	2.65	5	<10	10	<0.5	<2	0.90	<0.5	16	26	35	3.94	10
I134253		1.59	<0.2	2.14	6	<10	20	<0.5	<2	0.65	<0.5	14	17	35	3.83	10
I134254		2.65	<0.2	1.24	<2	<10	20	<0.5	<2	0.61	<0.5	1	3	6	2.53	10
I134255D		<0.02	<0.2	1.22	<2	<10	20	<0.5	<2	0.57	<0.5	1	3	6	2.45	10
I134256		2.69	<0.2	1.42	11	<10	20	<0.5	<2	0.44	<0.5	1	2	3	2.45	10
I134257		2.47	<0.2	1.49	2	<10	40	<0.5	<2	0.34	<0.5	<1	1	7	2.09	10
I134258		2.66	<0.2	1.20	<2	<10	30	<0.5	<2	0.45	<0.5	1	5	3	2.02	<10
I134259		1.21	<0.2	5.43	3	<10	<10	<0.5	<2	3.33	<0.5	33	158	72	6.96	20
I134260		1.61	<0.2	5.84	6	<10	<10	<0.5	<2	2.70	<0.5	36	149	141	7.51	20
I134261		2.14	<0.2	1.05	<2	<10	30	<0.5	<2	0.37	<0.5	<1	2	10	1.74	<10
I134262		2.02	<0.2	0.68	4	<10	20	<0.5	<2	0.28	1.2	1	2	13	1.79	<10
I134263		2.31	<0.2	0.35	<2	<10	10	<0.5	<2	0.31	<0.5	<1	2	6	1.92	<10
I134264AD		<0.02	<0.2	0.33	<2	<10	10	<0.5	<2	0.30	<0.5	<1	2	6	1.87	<10
I134265		2.30	<0.2	0.41	2	<10	20	<0.5	<2	0.53	<0.5	5	2	11	2.34	<10
I134266		2.08	<0.2	0.41	<2	<10	30	<0.5	2	0.49	<0.5	2	14	6	1.68	<10
I134267		2.12	<0.2	0.35	<2	<10	30	<0.5	<2	0.76	<0.5	<1	2	5	1.60	<10
I134268		2.18	<0.2	0.43	<2	<10	30	<0.5	<2	0.26	<0.5	1	1	7	1.72	<10
I134269		1.71	<0.2	0.41	<2	<10	30	<0.5	2	0.68	<0.5	1	1	3	1.56	<10
I134270		0.46	<0.2	0.18	<2	<10	20	<0.5	<2	20.5	<0.5	<1	<1	2	0.34	<10
I134271		1.94	<0.2	0.35	<2	<10	10	<0.5	<2	0.87	<0.5	1	2	3	1.83	<10
I134272		2.08	<0.2	0.39	15	<10	10	<0.5	2	1.12	<0.5	1	3	49	1.49	<10
I134273		2.18	<0.2	0.44	12	<10	10	<0.5	<2	1.09	<0.5	1	1	38	1.87	<10
I134274		1.89	<0.2	0.33	<2	<10	10	<0.5	2	1.32	<0.5	5	3	5	2.11	<10
I134275AD		<0.02	<0.2	0.37	3	<10	10	<0.5	<2	1.37	<0.5	5	3	9	2.15	<10
I134276		2.24	<0.2	0.79	37	<10	10	<0.5	<2	0.79	<0.5	14	38	91	4.62	<10
I134277		2.22	<0.2	0.87	<2	<10	10	<0.5	<2	0.75	<0.5	10	30	5	4.09	<10
I134278		2.19	<0.2	0.66	<2	<10	20	<0.5	<2	0.88	<0.5	4	6	2	2.47	<10
I134279		1.95	<0.2	0.57	<2	<10	40	<0.5	<2	0.75	<0.5	1	1	2	1.75	<10
I134280		2.12	<0.2	0.61	2	<10	40	<0.5	<2	0.96	<0.5	2	1	1	1.55	<10
I134281		2.14	<0.2	0.37	<2	<10	20	<0.5	<2	0.16	<0.5	1	3	1	1.51	<10
I134282		1.44	<0.2	0.41	<2	<10	10	<0.5	<2	0.33	<0.5	2	7	1	1.99	<10
I134283D		<0.02	<0.2	0.35	<2	<10	10	<0.5	<2	0.34	<0.5	2	7	1	1.99	<10
I134284		1.03	<0.2	1.01	16	<10	10	<0.5	<2	1.16	<0.5	18	55	56	7.01	10
I134285		1.67	<0.2	2.24	6	<10	<10	<0.5	<2	4.80	<0.5	35	171	4	6.14	10
I134286		2.61	<0.2	3.04	15	10	10	0.5	<2	6.32	<0.5	29	190	1	6.65	10
I134287		1.63	<0.2	1.98	10	10	10	<0.5	2	5.82	<0.5	24	198	<1	6.27	10
I134288AD		<0.02	<0.2	2.00	11	10	10	<0.5	<2	5.77	<0.5	25	198	<1	6.24	10
I134289		1.12	<0.2	0.98	6	<10	10	<0.5	<2	5.81	<0.5	32	97	26	5.49	10



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I134250		2	0.03	<10	6.36	3040	6	0.05	45	780	8	4.17	3	26	27	<20
I134251		1	0.03	<10	5.57	2860	3	0.05	43	790	9	2.55	2	25	35	<20
I134252		<1	0.05	<10	3.09	774	2	0.08	8	240	16	2.31	2	12	25	<20
I134253		<1	0.12	<10	2.19	640	<1	0.11	8	210	12	2.33	2	8	16	<20
I134254		<1	0.11	<10	1.03	703	<1	0.09	<1	130	<2	1.08	<2	4	13	<20
I134255D		<1	0.11	<10	1.00	670	<1	0.09	<1	130	2	1.07	<2	4	12	<20
I134256		<1	0.11	10	1.01	713	<1	0.08	<1	160	<2	0.71	<2	4	10	<20
I134257		<1	0.16	10	1.22	507	<1	0.07	<1	50	<2	0.50	<2	1	10	<20
I134258		<1	0.07	10	1.21	479	2	0.10	1	90	<2	0.95	<2	3	11	<20
I134259		1	<0.01	<10	5.28	2030	<1	0.05	36	720	56	0.95	3	23	70	<20
I134260		1	<0.01	<10	5.82	2830	<1	0.05	38	810	5	1.91	3	31	44	<20
I134261		<1	0.18	10	0.96	525	<1	0.06	<1	50	8	1.24	2	1	8	<20
I134262		1	0.14	<10	0.83	463	<1	0.07	<1	10	<2	1.28	<2	1	8	<20
I134263		<1	0.11	10	0.74	481	<1	0.08	<1	10	<2	1.38	2	2	10	<20
I134264AD		<1	0.11	10	0.73	468	<1	0.08	<1	10	<2	1.34	<2	2	9	<20
I134265		<1	0.11	<10	0.88	551	1	0.09	<1	240	<2	1.49	<2	3	13	<20
I134266		<1	0.18	<10	0.68	433	1	0.07	4	30	2	0.96	<2	1	10	<20
I134267		<1	0.11	<10	0.81	533	<1	0.07	<1	<10	<2	0.73	<2	1	10	<20
I134268		<1	0.16	<10	0.70	268	1	0.06	<1	<10	2	1.10	2	1	8	<20
I134269		<1	0.13	<10	0.98	400	<1	0.05	<1	<10	<2	0.69	<2	1	14	<20
I134270		1	0.07	20	1.00	105	<1	0.05	<1	80	<2	0.12	<2	<1	3810	30
I134271		<1	0.04	<10	1.22	540	<1	0.09	<1	<10	<2	0.73	<2	3	18	<20
I134272		<1	0.02	<10	1.07	783	<1	0.11	<1	10	<2	0.34	<2	3	14	<20
I134273		<1	0.03	<10	1.12	509	<1	0.08	<1	<10	<2	0.52	<2	3	15	<20
I134274		<1	0.02	<10	1.17	529	1	0.09	1	60	<2	0.72	<2	5	30	<20
I134275AD		<1	0.03	<10	1.22	558	2	0.08	5	70	3	0.76	<2	5	33	<20
I134276		<1	0.03	<10	2.40	961	1	0.12	20	280	<2	1.26	<2	12	39	<20
I134277		<1	0.04	<10	2.05	779	2	0.10	8	290	<2	1.58	<2	8	19	<20
I134278		1	0.08	<10	1.58	624	<1	0.08	2	50	<2	0.43	<2	4	17	<20
I134279		<1	0.08	<10	1.03	480	<1	0.04	1	10	<2	0.32	<2	3	10	<20
I134280		<1	0.08	<10	1.05	482	<1	0.03	<1	<10	<2	0.23	<2	3	10	<20
I134281		<1	0.06	<10	0.68	317	<1	0.05	<1	10	<2	0.44	<2	3	5	<20
I134282		<1	0.04	<10	0.99	445	<1	0.07	1	40	<2	0.38	<2	6	7	<20
I134283D		1	0.03	<10	1.01	448	<1	0.06	<1	40	<2	0.38	<2	6	7	<20
I134284		1	0.01	10	3.51	1495	11	0.06	30	1060	<2	0.93	<2	13	26	<20
I134285		1	0.02	<10	5.63	2220	<1	0.06	98	1950	<2	0.02	<2	28	75	<20
I134286		<1	0.05	<10	5.23	1910	<1	0.05	81	950	2	0.02	<2	30	225	<20
I134287		1	0.04	<10	4.85	1555	<1	0.05	71	450	2	0.02	<2	31	152	<20
I134288AD		<1	0.04	<10	4.81	1545	<1	0.05	71	450	<2	0.02	<2	31	151	<20
I134289		<1	0.01	<10	5.29	1725	<1	0.07	62	390	<2	0.02	<2	28	99	<20



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CERTIFICATE OF ANALYSIS TR11149227

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Pb- OG46	Au- AA23
		Ti	Ti	U	V	W	Zn	Ag	Pb	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.01	10	10	1	10	2	1	0.001	0.005
I134250		0.07	<10	<10	257	<10	4660			0.005
I134251		0.12	<10	<10	257	<10	1495			<0.005
I134252		<0.01	<10	<10	84	<10	125			<0.005
I134253		<0.01	<10	<10	51	<10	98			0.005
I134254		<0.01	<10	<10	5	<10	102			<0.005
I134255D		<0.01	<10	<10	5	<10	100			<0.005
I134256		<0.01	<10	<10	2	<10	122			<0.005
I134257		<0.01	<10	<10	3	<10	103			<0.005
I134258		<0.01	<10	<10	7	<10	77			<0.005
I134259		0.30	<10	<10	237	<10	351			<0.005
I134260		0.15	<10	<10	269	<10	757			<0.005
I134261		<0.01	<10	<10	4	<10	269			<0.005
I134262		<0.01	<10	<10	1	<10	265			<0.005
I134263		<0.01	<10	<10	<1	<10	62			<0.005
I134264AD		<0.01	<10	<10	<1	<10	59			<0.005
I134265		<0.01	<10	<10	7	<10	55			<0.005
I134266		0.01	<10	<10	5	<10	50			<0.005
I134267		<0.01	<10	<10	<1	<10	121			<0.005
I134268		<0.01	<10	<10	<1	<10	73			<0.005
I134269		<0.01	<10	<10	<1	<10	90			<0.005
I134270		0.01	<10	<10	4	<10	14			<0.005
I134271		<0.01	<10	<10	1	<10	75			<0.005
I134272		<0.01	<10	<10	<1	<10	177			<0.005
I134273		<0.01	<10	<10	1	<10	148			<0.005
I134274		<0.01	<10	<10	12	<10	46			<0.005
I134275AD		<0.01	<10	<10	12	<10	51			<0.005
I134276		<0.01	<10	<10	69	<10	74			<0.005
I134277		<0.01	<10	<10	38	<10	60			<0.005
I134278		<0.01	<10	<10	10	<10	51			<0.005
I134279		<0.01	<10	<10	2	<10	40			<0.005
I134280		<0.01	<10	<10	1	<10	38			<0.005
I134281		<0.01	<10	<10	2	<10	28			<0.005
I134282		<0.01	<10	<10	7	<10	33			<0.005
I134283D		<0.01	<10	<10	7	<10	33			<0.005
I134284		<0.01	<10	<10	150	<10	88			<0.005
I134285		0.01	<10	<10	219	<10	93			<0.005
I134286		0.02	<10	<10	221	<10	78			<0.005
I134287		0.02	<10	<10	171	<10	71			<0.005
I134288AD		0.02	<10	<10	170	<10	70			<0.005
I134289		0.01	<10	<10	189	<10	114			<0.005



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CERTIFICATE OF ANALYSIS TR11149227

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
I134290		2.14	<0.2	0.97	51	<10	<10	<0.5	<2	1.86	0.5	23	85	246	5.69	10
I134291		2.20	<0.2	0.55	7	<10	20	<0.5	<2	0.44	<0.5	19	13	34	5.56	<10
I134292		2.15	<0.2	0.73	3	<10	10	<0.5	<2	0.57	<0.5	6	1	20	5.86	<10
I134293		2.24	<0.2	0.40	50	<10	10	<0.5	<2	0.30	6.0	1	3	161	5.39	<10
I134294		0.12	>100	1.33	251	<10	100	<0.5	4	0.85	25.2	10	32	6350	5.39	<10
I134295		1.89	<0.2	0.28	<2	<10	10	<0.5	<2	0.27	<0.5	1	3	25	2.33	<10
I134296		1.78	<0.2	0.26	8	<10	<10	<0.5	<2	0.65	<0.5	1	3	28	4.33	<10
I134297		2.12	<0.2	0.29	<2	<10	<10	<0.5	<2	0.21	<0.5	<1	3	2	2.27	<10
I134298		2.34	<0.2	0.29	<2	<10	10	<0.5	<2	0.16	<0.5	<1	2	1	2.59	<10
I134299		2.07	<0.2	0.35	<2	<10	<10	<0.5	<2	0.20	<0.5	<1	2	1	2.45	<10
I134300		2.25	<0.2	0.30	<2	<10	<10	<0.5	<2	0.39	<0.5	<1	2	2	2.74	<10
I134301D		<0.02	<0.2	0.34	<2	<10	<10	<0.5	<2	0.38	<0.5	<1	4	2	2.69	<10
I134302		2.02	<0.2	0.22	2	<10	<10	<0.5	<2	0.24	<0.5	<1	3	2	2.51	<10
I134303		1.84	<0.2	0.21	<2	<10	<10	<0.5	<2	0.11	<0.5	<1	4	3	2.45	<10
I134304		2.12	<0.2	0.29	2	<10	<10	<0.5	<2	0.46	<0.5	<1	1	2	2.71	<10
I134305		1.71	<0.2	0.29	<2	<10	<10	<0.5	<2	0.44	<0.5	<1	2	3	2.69	<10
I134306		0.39	<0.2	0.34	<2	<10	30	0.5	<2	0.41	<0.5	1	3	2	1.10	<10
I134307		2.30	<0.2	0.26	<2	<10	<10	<0.5	<2	0.12	<0.5	<1	4	4	2.18	<10
I134308		1.85	<0.2	0.30	3	<10	<10	<0.5	<2	0.45	<0.5	<1	2	3	2.83	<10
I134309		2.08	<0.2	0.31	<2	<10	<10	<0.5	<2	0.30	<0.5	<1	3	4	3.03	<10
I134310		1.97	<0.2	0.34	3	<10	<10	<0.5	<2	0.22	<0.5	<1	2	7	2.53	<10
I134311		2.43	<0.2	0.20	<2	<10	<10	<0.5	<2	0.31	<0.5	1	3	2	2.37	<10
I134312		2.24	<0.2	0.22	3	<10	<10	<0.5	<2	0.48	<0.5	<1	3	3	1.88	<10
I134313AD		<0.02	<0.2	0.21	4	<10	<10	<0.5	<2	0.48	<0.5	<1	3	3	1.89	<10
I134314		2.26	<0.2	0.22	11	<10	<10	<0.5	<2	0.32	<0.5	<1	3	23	1.79	<10
I134315		2.07	<0.2	0.31	3	<10	<10	<0.5	<2	0.44	<0.5	<1	5	4	2.18	<10
I134316		2.09	<0.2	0.30	2	<10	<10	<0.5	<2	0.66	<0.5	<1	2	3	2.54	<10
I134317		1.95	<0.2	0.37	2	<10	<10	<0.5	<2	0.15	<0.5	<1	3	4	2.23	<10
I134318		0.35	<0.2	0.37	<2	<10	40	0.6	<2	0.41	<0.5	1	3	2	1.33	<10
I134319		2.25	<0.2	0.34	<2	<10	<10	<0.5	<2	0.59	<0.5	<1	2	6	2.35	<10
I134320		1.74	<0.2	0.21	2	<10	<10	<0.5	<2	0.36	<0.5	<1	3	3	1.94	<10
I134321		0.56	<0.2	0.23	3	<10	<10	<0.5	<2	0.09	<0.5	<1	4	19	1.81	<10



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CERTIFICATE OF ANALYSIS TR11149227

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I134290		<1	<0.01	<10	3.86	1655	1	0.07	53	590	<2	1.67	<2	25	36	<20
I134291		<1	0.05	<10	1.71	797	1	0.06	7	240	<2	3.89	<2	8	14	<20
I134292		1	0.03	<10	2.23	1265	2	0.07	<1	1510	<2	2.64	<2	10	25	<20
I134293		1	0.03	<10	1.51	991	22	0.07	3	140	2	3.17	2	6	11	<20
I134294		1	0.10	<10	0.77	1655	19	0.08	25	440	>10000	2.46	421	4	30	<20
I134295		<1	0.01	<10	0.81	386	<1	0.10	<1	90	10	1.10	<2	4	11	<20
I134296		<1	0.02	<10	1.06	653	2	0.08	2	360	<2	3.22	<2	5	20	<20
I134297		<1	0.03	<10	0.63	665	<1	0.10	<1	20	<2	0.46	<2	3	7	<20
I134298		<1	0.03	<10	0.76	448	<1	0.07	<1	10	<2	0.23	<2	3	7	<20
I134299		1	0.02	10	0.64	350	<1	0.09	<1	10	<2	0.42	<2	3	8	<20
I134300		1	0.02	<10	0.85	542	1	0.07	<1	10	<2	0.87	<2	3	9	<20
I134301D		<1	0.03	<10	0.83	535	1	0.08	<1	10	<2	0.83	<2	3	9	<20
I134302		<1	0.03	<10	0.61	401	<1	0.06	<1	<10	<2	0.46	<2	2	7	<20
I134303		<1	0.02	<10	0.41	267	<1	0.09	<1	<10	<2	0.88	<2	2	5	<20
I134304		<1	0.04	<10	0.95	493	<1	0.06	<1	<10	<2	0.54	<2	3	11	<20
I134305		<1	0.04	<10	0.75	424	<1	0.06	<1	<10	<2	1.10	<2	2	9	<20
I134306		<1	0.20	60	0.10	314	<1	0.06	<1	150	6	0.01	<2	1	18	30
I134307		<1	0.03	<10	0.50	292	<1	0.08	<1	<10	<2	0.75	<2	2	6	<20
I134308		<1	0.02	<10	0.76	534	<1	0.08	<1	<10	<2	1.08	<2	3	10	<20
I134309		<1	0.03	<10	0.82	540	<1	0.07	<1	20	<2	0.79	<2	3	9	<20
I134310		<1	0.05	<10	0.78	382	1	0.07	<1	<10	<2	0.71	<2	2	8	<20
I134311		<1	0.02	<10	0.49	238	<1	0.08	<1	10	<2	1.44	<2	3	6	<20
I134312		<1	0.01	<10	0.47	348	<1	0.08	<1	10	<2	0.88	<2	4	7	<20
I134313AD		<1	0.01	<10	0.46	348	<1	0.08	<1	10	<2	0.86	<2	4	7	<20
I134314		<1	0.01	<10	0.41	237	<1	0.07	<1	10	<2	0.40	<2	5	6	<20
I134315		<1	0.06	<10	0.57	456	<1	0.08	<1	10	<2	0.69	<2	3	7	<20
I134316		<1	0.07	<10	0.99	666	<1	0.05	<1	20	<2	0.32	<2	2	8	<20
I134317		<1	0.09	<10	0.64	337	<1	0.07	<1	30	<2	0.47	<2	2	6	<20
I134318		1	0.23	60	0.10	366	<1	0.07	1	160	7	0.01	<2	1	17	30
I134319		<1	0.07	<10	0.87	453	<1	0.06	<1	10	<2	0.31	<2	2	9	<20
I134320		<1	0.01	<10	0.54	274	<1	0.08	<1	20	<2	0.30	<2	5	5	<20
I134321		<1	0.01	<10	0.29	153	<1	0.10	<1	40	<2	0.32	<2	5	5	<20



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CERTIFICATE OF ANALYSIS TR11149227

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Pb- OG46	Au- AA23
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Pb %	Au ppm
		0.01	10	10	1	10	2	1	0.001	0.005
1134290		<0.01	<10	<10	187	<10	488			<0.005
1134291		<0.01	<10	<10	68	<10	107			<0.005
1134292		<0.01	<10	<10	27	<10	205			<0.005
1134293		<0.01	<10	<10	10	<10	1115			<0.005
1134294		0.09	<10	<10	45	<10	5110	101	1.025	0.235
1134295		<0.01	<10	<10	1	<10	102			<0.005
1134296		<0.01	<10	<10	4	<10	148			<0.005
1134297		<0.01	<10	<10	<1	<10	100			<0.005
1134298		<0.01	<10	<10	<1	<10	105			<0.005
1134299		<0.01	<10	<10	<1	<10	81			<0.005
1134300		<0.01	<10	<10	<1	<10	116			<0.005
1134301D		<0.01	<10	<10	<1	<10	115			<0.005
1134302		<0.01	<10	<10	<1	<10	109			<0.005
1134303		<0.01	<10	<10	<1	<10	63			<0.005
1134304		<0.01	<10	<10	<1	<10	142			<0.005
1134305		<0.01	<10	<10	<1	<10	111			<0.005
1134306		0.02	<10	<10	10	<10	28			0.005
1134307		<0.01	<10	<10	<1	<10	56			<0.005
1134308		<0.01	<10	<10	<1	<10	70			<0.005
1134309		<0.01	<10	<10	<1	<10	94			<0.005
1134310		<0.01	<10	<10	<1	<10	66			<0.005
1134311		<0.01	<10	<10	1	<10	34			<0.005
1134312		<0.01	<10	<10	1	<10	57			<0.005
1134313AD		<0.01	<10	<10	<1	<10	57			<0.005
1134314		<0.01	<10	<10	1	<10	80			<0.005
1134315		<0.01	<10	<10	<1	<10	55			<0.005
1134316		<0.01	<10	<10	1	<10	78			<0.005
1134317		<0.01	<10	<10	<1	<10	60			<0.005
1134318		0.02	<10	<10	10	<10	31			<0.005
1134319		<0.01	<10	<10	<1	<10	84			<0.005
1134320		<0.01	<10	<10	1	<10	36			<0.005
1134321		<0.01	<10	<10	1	<10	20			<0.005



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CERTIFICATE TR11150403

Project: KCC- 2011- 011
 P.O. No.: 114694
 This report is for 33 Drill Core samples submitted to our lab in Terrace, BC, Canada on 6- AUG- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 BRIAN WILLET

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE

To: KUTCHO COPPER CORP.
 ATTN: VIVIENNE MCLENNAN
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11150403

Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
I134484		2.73	0.3	0.26	15	<10	90	<0.5	<2	14.3	0.6	37	2	109	3.47	<10
I134485		3.08	0.3	0.24	15	<10	20	<0.5	<2	10.4	1.2	49	3	34	3.74	<10
I134486		2.32	0.6	0.20	12	<10	20	<0.5	<2	14.5	1.0	28	2	44	2.56	<10
I134487		2.81	0.2	0.24	10	<10	20	<0.5	<2	4.19	1.1	49	2	48	4.94	<10
I134488D		<0.02	0.3	0.22	11	<10	20	<0.5	<2	4.20	1.3	48	2	54	5.14	<10
I134489		2.74	0.3	0.25	14	<10	20	<0.5	<2	6.18	1.3	43	2	44	4.05	<10
I134490		1.55	<0.2	0.29	5	<10	40	<0.5	<2	2.35	1.1	11	1	36	3.38	<10
I134491		1.41	<0.2	0.33	<2	<10	30	<0.5	<2	1.11	0.8	4	1	21	3.00	<10
I134492		2.02	<0.2	0.28	<2	<10	10	<0.5	<2	1.43	0.7	4	1	14	2.41	<10
I134493		2.97	<0.2	0.40	2	<10	10	<0.5	<2	0.46	0.7	4	1	18	2.35	<10
I134494		2.56	0.2	0.25	16	<10	10	<0.5	<2	0.88	1.5	9	3	662	3.73	<10
I134495D		<0.02	0.2	0.28	16	<10	10	<0.5	<2	0.95	1.5	9	2	617	3.54	<10
I134496		1.22	0.2	0.29	7	<10	10	<0.5	<2	2.18	2.2	7	1	363	3.44	<10
I134497		1.29	2.8	0.26	8	<10	10	<0.5	9	6.01	4.2	9	2	>10000	3.41	<10
I134498		1.41	4.6	0.24	8	<10	10	<0.5	8	5.08	3.3	2	1	8190	2.05	<10
I134499		0.12	60.5	0.73	157	<10	20	<0.5	20	1.67	227	7	13	>10000	12.05	10
I134500		1.42	1.6	0.34	4	<10	10	<0.5	<2	4.56	0.8	1	1	5400	2.27	<10
I135501		1.31	6.3	0.07	56	<10	10	<0.5	3	16.5	29.9	22	3	>10000	5.51	<10
I135502		1.79	22.7	0.06	265	<10	<10	<0.5	18	4.50	111.0	68	<1	>10000	24.4	<10
I135503		2.29	3.4	0.14	136	<10	<10	<0.5	29	1.04	125.0	199	<1	5870	24.0	<10
I135504		2.36	5.1	0.22	257	<10	<10	<0.5	55	0.46	97.9	399	<1	>10000	24.7	<10
I135505		1.07	3.7	0.15	86	<10	10	<0.5	29	5.87	65.2	21	<1	>10000	20.1	<10
I135506		0.13	>100	1.19	40	<10	10	<0.5	137	0.32	65.3	158	24	>10000	27.2	10
I135507		1.46	0.6	0.50	45	<10	50	<0.5	2	1.17	2.8	4	1	280	5.01	<10
I135508		2.18	1.1	0.42	44	<10	20	<0.5	<2	1.57	6.5	6	1	243	5.65	<10
I135509		3.11	0.2	0.22	5	<10	20	<0.5	<2	0.78	7.3	59	2	90	9.62	<10
I135510		2.83	0.3	0.49	5	<10	30	<0.5	<2	0.58	2.2	26	2	39	5.50	<10
I135511		2.93	6.2	0.31	38	<10	20	<0.5	<2	0.18	22.8	39	<1	1205	16.9	<10
I135512		0.58	4.9	0.04	<2	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	6	0.07	<10
I135513		2.50	1.9	0.74	21	<10	20	<0.5	<2	0.34	8.0	16	<1	524	16.3	<10
I135514		2.06	1.4	0.31	18	<10	30	<0.5	<2	1.02	15.0	9	<1	612	6.31	<10
I135515		1.30	<0.2	0.77	3	<10	40	<0.5	<2	0.26	0.9	6	1	23	3.48	<10
I135516		1.68	<0.2	1.04	<2	<10	30	<0.5	<2	0.10	0.7	9	1	6	2.69	<10



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CERTIFICATE OF ANALYSIS TR11150403

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I134484		1	0.08	<10	0.48	1685	114	0.04	13	420	8	3.21	13	6	248	<20
I134485		<1	0.08	<10	0.70	2330	1	0.05	18	320	7	3.06	<2	6	136	<20
I134486		<1	0.06	<10	0.65	2010	38	0.04	12	390	12	1.80	<2	6	221	<20
I134487		<1	0.06	<10	0.98	1065	12	0.06	21	190	4	4.25	<2	5	42	<20
I134488D		<1	0.06	<10	0.99	1065	15	0.05	21	200	5	4.39	<2	5	41	<20
I134489		<1	0.07	<10	1.13	1020	<1	0.06	24	430	6	3.22	<2	4	56	<20
I134490		<1	0.09	<10	1.81	549	<1	0.04	9	240	4	1.50	<2	3	21	<20
I134491		<1	0.05	<10	1.84	255	<1	0.07	3	220	<2	0.79	<2	4	20	<20
I134492		<1	0.03	<10	1.62	261	<1	0.07	2	160	<2	0.72	<2	4	14	<20
I134493		<1	0.03	<10	2.10	207	2	0.09	2	180	<2	0.92	<2	5	12	<20
I134494		<1	0.03	<10	1.21	250	43	0.07	16	400	2	3.51	<2	3	13	<20
I134495D		<1	0.03	<10	1.22	261	43	0.08	18	360	2	3.31	<2	3	14	<20
I134496		<1	0.04	<10	1.16	446	60	0.11	115	260	4	3.67	<2	3	18	<20
I134497		<1	0.03	<10	3.40	1195	72	0.09	91	410	14	3.58	<2	8	31	<20
I134498		<1	0.03	<10	2.87	947	11	0.09	7	60	11	1.98	<2	7	27	<20
I134499		3	0.07	<10	1.73	627	30	0.03	17	400	946	>10.0	51	2	38	<20
I134500		<1	0.04	<10	2.56	869	12	0.10	17	90	21	2.34	<2	7	26	<20
I135501		1	0.01	<10	9.76	3680	220	0.03	63	340	413	7.03	3	3	71	<20
I135502		6	0.01	<10	3.10	1675	16	0.02	16	150	630	>10.0	10	<1	16	<20
I135503		4	<0.01	<10	1.02	332	11	0.02	6	300	159	>10.0	2	1	7	<20
I135504		4	<0.01	<10	1.60	210	4	0.01	<1	330	191	>10.0	7	1	6	<20
I135505		3	0.02	<10	3.94	2090	35	0.05	<1	150	103	>10.0	2	3	26	<20
I135506		<1	0.05	<10	1.47	379	6	0.01	12	90	1485	>10.0	6	2	1	<20
I135507		<1	0.08	<10	2.32	489	18	0.09	4	230	49	6.01	2	4	17	<20
I135508		1	0.05	<10	2.53	637	12	0.10	4	140	35	6.54	3	4	25	<20
I135509		<1	0.08	<10	0.93	350	26	0.04	7	160	<2	>10.0	<2	1	7	<20
I135510		<1	0.07	<10	1.48	345	19	0.03	<1	130	<2	6.27	<2	1	6	<20
I135511		1	0.06	<10	0.53	109	12	0.06	<1	110	57	>10.0	3	1	4	<20
I135512		<1	<0.01	<10	1.95	28	<1	0.02	<1	50	2	0.11	<2	<1	4900	20
I135513		<1	0.06	<10	1.36	244	14	0.04	<1	100	106	>10.0	2	1	8	<20
I135514		1	0.10	<10	1.62	530	15	0.04	3	110	4	7.30	<2	2	22	<20
I135515		<1	0.11	<10	1.17	210	11	0.03	<1	70	<2	3.07	<2	1	4	<20
I135516		<1	0.11	<10	1.11	157	15	0.03	<1	140	<2	2.14	<2	1	4	<20



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CERTIFICATE OF ANALYSIS TR11150403

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Cu- OG46	Zn- OG46	Au- AA23
		Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	Zn %	Au ppm
		0.01	10	10	1	10	2	1	0.001	0.001	0.005
1134484		<0.01	<10	<10	26	<10	43				0.007
1134485		<0.01	<10	<10	16	<10	43				0.011
1134486		<0.01	<10	<10	10	<10	35				0.010
1134487		<0.01	<10	<10	9	<10	60				0.016
1134488D		<0.01	<10	<10	8	<10	62				0.016
1134489		<0.01	<10	<10	4	<10	47				0.008
1134490		<0.01	<10	<10	6	<10	221				0.006
1134491		<0.01	<10	<10	8	<10	241				<0.005
1134492		<0.01	<10	<10	6	<10	132				<0.005
1134493		<0.01	<10	<10	12	<10	192				<0.005
1134494		<0.01	<10	<10	11	<10	178				0.005
1134495D		<0.01	<10	<10	11	<10	188				0.005
1134496		<0.01	<10	<10	11	<10	262				0.005
1134497		<0.01	<10	<10	17	<10	511		1.300		0.016
1134498		<0.01	<10	<10	5	<10	306				0.028
1134499		<0.01	<10	<10	3	<10	>10000		1.880	4.54	0.551
1134500		<0.01	<10	<10	13	<10	133				0.005
1135501		<0.01	<10	<10	59	10	4570		0.967		0.041
1135502		<0.01	<10	<10	15	<10	>10000		1.140	2.02	0.168
1135503		<0.01	<10	<10	9	<10	>10000			1.680	0.098
1135504		<0.01	<10	<10	4	10	8750		1.440		0.084
1135505		<0.01	<10	<10	<1	10	9180		1.395		0.034
1135506		0.01	<10	<10	1	<10	>10000	110	4.93	2.31	2.03
1135507		<0.01	<10	<10	10	<10	670				0.009
1135508		<0.01	<10	<10	5	<10	1155				0.010
1135509		<0.01	<10	<10	<1	<10	912				0.007
1135510		<0.01	<10	<10	<1	<10	349				0.005
1135511		<0.01	<10	<10	<1	<10	3380				0.044
1135512		<0.01	<10	<10	<1	<10	10				<0.005
1135513		<0.01	<10	<10	<1	<10	1065				0.018
1135514		<0.01	<10	<10	<1	<10	2090				0.018
1135515		<0.01	<10	<10	<1	<10	133				<0.005
1135516		<0.01	<10	<10	1	<10	77				<0.005



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CERTIFICATE TR11157050

Project: 2011- 012
 P.O. No.: 114694
 This report is for 32 Drill Core samples submitted to our lab in Terrace, BC, Canada on 11- AUG- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 BRIAN WILLET

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE

To: KUTCHO COPPER CORP.
 ATTN: VIVIENNE MCLENNAN
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: 2011-012

CERTIFICATE OF ANALYSIS TR11157050

Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
1134376		2.61	<0.2	0.33	2	<10	20	<0.5	<2	0.08	<0.5	2	3	6	2.58	<10
1134377		2.67	<0.2	0.40	3	<10	30	<0.5	2	0.09	<0.5	8	2	10	4.66	<10
1134378		2.66	<0.2	0.39	<2	<10	20	<0.5	<2	0.08	<0.5	4	2	3	3.93	<10
1134379		2.73	<0.2	0.35	3	<10	10	<0.5	2	0.15	<0.5	4	3	6	3.32	<10
1134380D		<0.02	<0.2	0.38	3	<10	20	<0.5	2	0.15	<0.5	4	3	5	3.39	<10
1134381		2.52	<0.2	0.30	2	<10	<10	<0.5	<2	0.23	<0.5	2	4	5	2.17	<10
1134382		2.69	<0.2	0.34	<2	<10	10	<0.5	<2	0.12	<0.5	1	3	2	2.41	<10
1134383		2.58	<0.2	0.27	<2	<10	20	<0.5	<2	0.23	<0.5	1	4	2	2.13	<10
1134384		2.48	<0.2	0.24	2	<10	<10	<0.5	<2	0.11	<0.5	1	3	1	1.93	<10
1134385		2.55	<0.2	0.31	<2	<10	10	<0.5	<2	0.07	<0.5	1	5	2	1.90	<10
1134386		0.13	>100	1.20	238	<10	90	<0.5	12	0.61	23.1	10	28	6010	5.06	<10
1134387		3.32	<0.2	0.28	8	<10	10	<0.5	<2	0.13	<0.5	2	4	9	2.81	<10
1134388		3.14	<0.2	0.28	2	<10	10	<0.5	<2	0.11	<0.5	1	5	3	2.14	<10
1134389		3.20	<0.2	0.32	<2	<10	20	<0.5	<2	0.08	<0.5	5	2	1	2.63	<10
1134390		3.18	<0.2	0.25	3	<10	20	<0.5	<2	0.14	<0.5	2	3	3	2.38	<10
1134391		1.84	<0.2	0.68	8	<10	1180	0.9	<2	3.72	<0.5	10	<1	6	4.39	<10
1134392D		<0.02	<0.2	0.69	7	<10	1170	0.9	<2	3.72	<0.5	10	1	6	4.39	<10
1134393		3.19	0.2	0.32	3	<10	40	<0.5	<2	0.27	<0.5	1	5	3	2.77	<10
1134394		2.82	<0.2	0.35	2	<10	40	<0.5	2	0.17	<0.5	1	3	2	2.13	<10
1134395		3.10	<0.2	0.38	4	<10	40	<0.5	<2	0.15	<0.5	2	2	3	2.34	<10
1134396		3.08	<0.2	0.37	3	<10	50	<0.5	<2	0.17	<0.5	6	2	3	3.25	<10
1134397		1.79	<0.2	0.32	8	<10	20	<0.5	<2	0.39	<0.5	6	2	9	3.52	<10
1134398		2.58	<0.2	1.42	6	<10	10	<0.5	<2	2.65	<0.5	35	65	30	6.42	<10
1134399D		<0.02	0.3	1.49	6	<10	20	<0.5	<2	3.03	<0.5	38	70	33	7.28	<10
1134400		2.67	<0.2	0.35	5	<10	20	<0.5	<2	0.42	<0.5	11	6	33	3.69	<10
1134401		2.11	0.8	5.34	6	<10	<10	<0.5	<2	1.95	5.8	41	208	1260	7.41	10
1134402		3.00	0.2	4.49	6	<10	<10	<0.5	<2	3.07	1.3	37	177	46	6.40	10
1134403		1.51	0.4	6.18	2	<10	<10	<0.5	<2	1.75	1.1	56	272	202	7.56	10
1134404		0.33	0.2	0.36	<2	<10	40	0.6	<2	0.41	<0.5	1	5	3	1.18	<10
1134405		2.51	<0.2	1.47	2	<10	10	<0.5	<2	2.30	<0.5	<1	2	13	2.17	10
1134406		2.51	<0.2	1.39	<2	<10	10	<0.5	<2	1.29	<0.5	<1	2	25	2.44	10
1134407		2.58	<0.2	1.60	<2	<10	10	<0.5	<2	0.42	1.3	<1	2	23	2.70	10



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CERTIFICATE OF ANALYSIS TR11157050

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
I134376		<1	0.07	<10	1.39	507	3	0.06	<1	10	<2	1.23	<2	1	5	<20
I134377		<1	0.10	<10	1.51	621	6	0.05	<1	10	<2	2.86	<2	1	9	<20
I134378		<1	0.08	<10	1.78	650	5	0.06	<1	10	<2	2.14	<2	1	10	<20
I134379		<1	0.05	<10	1.49	507	3	0.05	<1	10	<2	2.44	<2	1	10	<20
I134380D		<1	0.06	<10	1.69	571	3	0.05	<1	10	<2	2.35	<2	1	10	<20
I134381		<1	0.02	<10	1.33	521	2	0.08	1	70	<2	1.16	<2	2	8	<20
I134382		<1	0.05	<10	1.31	566	1	0.08	<1	10	<2	1.30	<2	1	5	<20
I134383		<1	0.02	<10	1.38	634	1	0.07	1	10	<2	1.20	<2	2	7	<20
I134384		<1	0.02	<10	0.90	478	1	0.08	<1	10	<2	0.86	<2	2	5	<20
I134385		<1	0.03	<10	0.90	449	2	0.08	1	10	<2	0.94	<2	2	5	<20
I134386		1	0.09	<10	0.73	1535	18	0.06	22	410	9700	2.18	386	4	27	<20
I134387		<1	0.03	<10	1.15	514	2	0.07	<1	30	6	1.60	<2	1	7	<20
I134388		<1	0.03	<10	1.03	420	1	0.07	1	20	<2	0.89	<2	2	4	<20
I134389		<1	0.09	10	1.05	507	1	0.04	<1	20	<2	0.47	<2	1	4	<20
I134390		<1	0.08	<10	0.82	378	3	0.06	1	20	<2	0.71	<2	1	6	<20
I134391		<1	0.31	20	2.02	1430	<1	0.07	<1	1990	<2	0.06	<2	7	233	<20
I134392D		<1	0.31	20	2.00	1425	<1	0.06	<1	1960	2	0.06	<2	7	221	<20
I134393		<1	0.06	<10	0.99	525	4	0.07	<1	70	<2	1.29	<2	2	18	<20
I134394		<1	0.10	10	1.57	517	2	0.04	<1	20	<2	0.46	<2	1	6	<20
I134395		<1	0.13	10	1.31	455	1	0.04	<1	20	<2	0.66	<2	1	5	<20
I134396		<1	0.10	<10	1.62	599	5	0.03	<1	10	<2	0.92	<2	1	5	<20
I134397		<1	0.05	<10	1.51	624	3	0.05	<1	30	<2	1.47	<2	2	6	<20
I134398		<1	0.05	<10	5.11	1685	<1	0.03	61	378	<2	0.76	<2	12	26	<20
I134399D		<1	0.05	<10	5.70	1880	<1	0.03	67	420	4	0.90	<2	13	28	<20
I134400		<1	0.05	<10	1.05	433	3	0.07	3	270	<2	2.24	<2	5	11	<20
I134401		<1	0.01	<10	6.21	3570	<1	0.04	82	520	22	1.89	<2	11	40	<20
I134402		<1	0.01	<10	5.44	3430	1	0.03	75	390	8	1.41	<2	12	60	<20
I134403		<1	<0.01	<10	7.35	3380	<1	0.03	146	420	8	1.45	<2	9	38	<20
I134404		<1	0.17	70	0.14	333	1	0.05	1	180	10	0.01	<2	1	15	30
I134405		<1	<0.01	10	1.70	1405	1	0.06	11	120	9	0.27	<2	6	24	<20
I134406		<1	<0.01	10	1.62	1355	<1	0.06	2	100	<2	0.77	2	6	15	<20
I134407		<1	<0.01	10	1.87	1695	<1	0.06	1	110	<2	0.74	<2	6	7	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Au- AA23
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Au ppm 0.005
I134376		<0.01	<10	<10	3	<10	50		<0.005
I134377		<0.01	<10	<10	4	<10	54		<0.005
I134378		<0.01	<10	<10	3	<10	52		<0.005
I134379		<0.01	<10	<10	3	<10	53		<0.005
I134380D		<0.01	<10	<10	3	<10	58		<0.005
I134381		<0.01	<10	<10	3	<10	42		<0.005
I134382		<0.01	<10	<10	3	<10	46		<0.005
I134383		<0.01	<10	<10	3	<10	46		<0.005
I134384		<0.01	<10	<10	2	<10	44		<0.005
I134385		<0.01	<10	<10	2	<10	45		<0.005
I134386		0.09	<10	<10	40	<10	4750	98	0.280
I134387		<0.01	<10	<10	3	<10	47		<0.005
I134388		<0.01	<10	<10	3	<10	35		<0.005
I134389		<0.01	<10	<10	2	<10	40		<0.005
I134390		<0.01	<10	<10	2	<10	29		<0.005
I134391		0.01	<10	<10	101	<10	110		<0.005
I134392D		0.01	<10	<10	101	<10	89		<0.005
I134393		<0.01	<10	<10	8	<10	45		0.006
I134394		<0.01	<10	<10	3	<10	49		<0.005
I134395		<0.01	<10	<10	2	<10	45		<0.005
I134396		<0.01	<10	<10	4	<10	69		<0.005
I134397		<0.01	<10	<10	7	<10	49		<0.005
I134398		<0.01	<10	<10	102	<10	116		<0.005
I134399D		<0.01	<10	<10	111	<10	124		<0.005
I134400		<0.01	<10	<10	12	<10	32		<0.005
I134401		0.06	<10	<10	139	<10	1575		<0.005
I134402		0.03	<10	<10	118	<10	591		<0.005
I134403		0.10	<10	<10	131	<10	488		<0.005
I134404		0.02	<10	<10	12	<10	34		<0.005
I134405		<0.01	<10	<10	1	<10	129		<0.005
I134406		<0.01	<10	<10	1	<10	166		<0.005
I134407		<0.01	<10	<10	1	<10	381		<0.005



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CERTIFICATE TR11159069

Project: KCC- 2011- 010
 P.O. No.: 114694
 This report is for 36 Drill Core samples submitted to our lab in Terrace, BC, Canada on 5- AUG- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 BRIAN WILLET

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11159069

Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
I134448		1.99	0.3	0.26	8	<10	20	<0.5	<2	6.27	<0.5	41	5	64	3.74	<10
I134449		1.38	0.3	0.21	7	<10	20	<0.5	<2	8.5	0.6	31	2	35	3.69	<10
I134450		3.23	0.2	0.25	7	<10	30	<0.5	<2	5.19	<0.5	29	4	63	3.69	<10
I134451		2.90	<0.2	0.25	<2	<10	30	<0.5	<2	2.86	<0.5	10	2	30	2.91	<10
I134452		3.46	<0.2	0.31	<2	<10	40	<0.5	<2	2.26	<0.5	2	1	26	2.73	<10
I134453D		<0.02	0.2	0.33	3	<10	40	<0.5	<2	2.24	<0.5	2	1	24	2.74	<10
I134454		3.39	<0.2	0.30	<2	<10	30	<0.5	<2	2.19	<0.5	2	1	25	2.70	<10
I134455		3.12	0.2	0.29	<2	<10	30	<0.5	<2	2.63	<0.5	2	1	42	2.90	<10
I134456		1.22	<0.2	0.21	<2	<10	20	<0.5	<2	6.46	2.2	2	1	61	2.65	<10
I134457		0.88	9.5	0.03	72	<10	<10	<0.5	<2	4.82	164.0	37	<1	>10000	24.7	<10
I134458		0.13	82.6	1.67	466	10	40	<0.5	6	2.04	56.2	28	78	>10000	6.03	10
I134459		1.69	64.6	0.09	410	<10	<10	<0.5	<2	1.48	177.0	77	<1	>10000	25.3	<10
I134460		2.37	21.2	0.14	97	<10	10	<0.5	<2	2.40	160.0	69	<1	9310	24.8	<10
I134461		1.49	5.1	0.05	139	<10	<10	<0.5	32	3.98	134.5	158	<1	3320	27.4	<10
I134462		0.44	0.3	0.04	2	<10	10	<0.5	<2	>25.0	5.1	3	<1	332	0.52	<10
I134463		1.84	4.0	0.09	76	<10	<10	<0.5	33	5.05	99.1	193	<1	3040	26.6	<10
I134464		1.40	<0.2	0.28	<2	<10	20	<0.5	<2	2.71	0.9	6	1	45	2.27	<10
I134465		1.55	<0.2	0.28	<2	<10	20	<0.5	<2	2.39	0.5	3	1	53	2.14	<10
I134466		3.42	0.2	0.18	25	<10	20	<0.5	2	0.16	1.4	39	3	45	8.69	<10
I134467		3.04	0.7	0.16	28	<10	10	<0.5	3	0.08	14.5	22	4	1165	7.69	<10
I134468D		<0.02	0.9	0.15	34	<10	10	<0.5	2	0.08	13.3	22	4	1215	7.94	<10
I134469		2.97	1.0	0.13	53	<10	10	<0.5	4	0.29	10.7	27	5	1760	6.84	<10
I134470		3.03	0.6	0.14	31	<10	10	<0.5	3	0.58	<0.5	23	4	636	6.37	<10
I134471		3.00	0.3	0.15	7	<10	20	<0.5	<2	0.62	<0.5	24	3	84	6.45	<10
I134472		2.41	0.9	0.22	5	<10	20	<0.5	2	0.38	<0.5	27	2	436	7.96	<10
I134473		0.56	<0.2	0.26	4	<10	10	<0.5	<2	>25.0	<0.5	1	1	4	0.21	<10
I134474		2.69	2.1	0.30	9	<10	30	<0.5	2	0.18	0.6	7	1	2960	5.39	<10
I134475		1.91	0.3	0.17	6	<10	20	<0.5	2	0.10	4.6	10	2	146	3.61	<10
I134476		2.94	0.3	0.37	9	<10	30	<0.5	3	1.86	0.5	17	2	46	6.17	<10
I134477		2.22	0.3	0.25	6	<10	40	<0.5	<2	0.40	1.5	14	1	26	3.84	<10
I134478D		<0.02	0.2	0.25	3	<10	10	<0.5	<2	0.37	2.0	13	1	30	3.81	<10
I134479		2.88	0.2	0.20	3	<10	<10	<0.5	<2	0.18	<0.5	19	2	15	4.73	<10
I134480		2.93	0.4	0.28	8	<10	<10	<0.5	<2	0.22	<0.5	25	2	16	5.19	<10
I134481		1.45	<0.2	1.01	3	<10	10	<0.5	<2	0.34	<0.5	4	2	7	1.70	<10
I134482		1.27	0.9	0.91	7	<10	10	<0.5	<2	1.06	<0.5	5	2	994	2.21	<10
I134483		1.14	0.2	0.94	2	<10	30	<0.5	<2	0.34	<0.5	6	2	7	1.81	<10



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CERTIFICATE OF ANALYSIS TR11159069

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I134448		<1	0.08	<10	0.94	1480	<1	0.06	19	210	9	3.09	<2	5	73	<20
I134449		<1	0.07	10	0.56	1870	<1	0.05	16	370	12	3.77	<2	5	79	<20
I134450		<1	0.07	10	0.95	1085	<1	0.06	24	560	8	3.21	<2	5	43	<20
I134451		<1	0.08	<10	1.32	602	1	0.05	13	180	4	1.68	<2	3	23	<20
I134452		<1	0.06	<10	1.71	523	<1	0.06	7	160	4	0.52	<2	4	19	<20
I134453D		<1	0.07	10	1.71	514	<1	0.06	7	160	3	0.53	<2	4	20	<20
I134454		<1	0.05	<10	1.78	391	<1	0.07	6	480	4	0.82	<2	4	20	<20
I134455		<1	0.05	<10	1.92	393	<1	0.07	4	130	3	1.67	<2	5	21	<20
I134456		<1	0.06	<10	3.51	1310	<1	0.04	5	190	5	1.99	<2	9	45	<20
I134457		6	0.01	<10	2.56	1430	22	0.02	5	110	48	>10.0	<2	2	23	<20
I134458		2	0.37	10	1.42	781	1300	0.11	246	1250	8270	4.38	71	7	208	<20
I134459		7	<0.01	<10	0.81	560	23	0.02	5	60	299	>10.0	7	1	10	<20
I134460		5	<0.01	<10	1.31	795	11	0.03	<1	50	65	>10.0	<2	1	11	<20
I134461		5	0.01	<10	2.07	2390	9	0.03	<1	130	273	>10.0	<2	1	19	<20
I134462		1	<0.01	<10	2.01	57	2	0.01	<1	50	2	0.98	<2	<1	6020	20
I134463		5	0.01	<10	2.58	1965	15	0.04	<1	400	116	>10.0	<2	2	25	<20
I134464		<1	0.07	<10	1.55	511	3	0.07	5	210	5	1.81	<2	4	25	<20
I134465		<1	0.06	<10	1.44	568	<1	0.07	5	300	3	1.41	<2	3	17	<20
I134466		<1	0.07	<10	0.07	60	41	0.03	<1	80	2	>10.0	<2	1	4	<20
I134467		1	0.05	<10	0.10	42	53	0.04	<1	110	6	9.54	<2	<1	4	<20
I134468D		<1	0.05	<10	0.11	44	56	0.03	<1	100	5	9.87	<2	<1	3	<20
I134469		<1	0.03	<10	0.38	139	54	0.03	<1	50	7	8.38	<2	1	5	<20
I134470		<1	0.05	<10	0.31	263	28	0.03	<1	40	3	7.67	<2	1	6	<20
I134471		<1	0.07	<10	0.31	272	52	0.03	<1	200	5	7.87	<2	1	6	<20
I134472		<1	0.08	<10	0.68	232	30	0.04	<1	100	2	9.91	<2	1	5	<20
I134473		<1	<0.01	10	1.86	35	<1	0.04	1	90	<2	0.12	<2	1	4500	20
I134474		<1	0.09	<10	0.63	93	7	0.05	<1	230	4	6.05	<2	1	6	<20
I134475		<1	0.07	<10	0.03	18	5	0.03	<1	110	7	4.08	<2	<1	11	<20
I134476		<1	0.14	<10	0.29	215	11	0.05	<1	6180	4	7.73	<2	1	13	<20
I134477		<1	0.10	<10	0.85	170	11	0.03	<1	520	3	3.82	<2	1	7	<20
I134478D		1	0.10	<10	0.80	184	8	0.03	5	460	10	3.74	<2	1	4	<20
I134479		1	0.09	<10	0.40	105	21	0.02	1	70	8	5.02	<2	1	2	<20
I134480		<1	0.08	<10	0.99	186	21	0.03	<1	90	7	5.46	<2	1	3	<20
I134481		1	0.07	<10	1.08	188	9	0.01	<1	150	3	0.80	<2	1	3	<20
I134482		<1	0.08	<10	1.31	416	12	0.02	1	140	4	1.38	<2	1	6	<20
I134483		1	0.08	<10	1.02	199	13	0.02	<1	110	3	0.99	<2	1	4	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Cu- OG46	Zn- OG46	Au- AA23
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu % 0.001	Zn % 0.001	Au ppm 0.005
I134448		<0.01	<10	<10	14	<10	51			0.019
I134449		<0.01	<10	<10	7	<10	22			0.020
I134450		<0.01	<10	<10	7	<10	47			0.011
I134451		<0.01	<10	<10	5	<10	76			0.007
I134452		<0.01	<10	<10	9	<10	125			<0.005
I134453D		<0.01	<10	<10	9	<10	126			<0.005
I134454		<0.01	<10	<10	7	<10	160			<0.005
I134455		<0.01	<10	<10	7	<10	244			<0.005
I134456		<0.01	<10	<10	8	<10	521			<0.005
I134457		<0.01	<10	<10	5	30	>10000	1.115	2.91	0.095
I134458		0.11	<10	<10	77	20	9560	2.47		1.290
I134459		<0.01	<10	10	11	<10	>10000	1.850	2.52	0.199
I134460		<0.01	<10	<10	11	<10	>10000		2.42	0.131
I134461		<0.01	<10	10	3	10	>10000		2.06	0.186
I134462		<0.01	<10	<10	2	<10	961			0.007
I134463		<0.01	<10	10	3	20	>10000		1.650	0.153
I134464		<0.01	<10	<10	3	<10	373			<0.005
I134465		<0.01	<10	<10	3	<10	236			<0.005
I134466		<0.01	<10	<10	1	<10	270			0.016
I134467		<0.01	<10	<10	1	<10	3460			0.015
I134468D		<0.01	<10	<10	1	<10	3230			0.015
I134469		<0.01	<10	<10	1	<10	2070			0.020
I134470		<0.01	<10	<10	1	<10	86			0.016
I134471		<0.01	<10	<10	<1	<10	56			0.006
I134472		<0.01	<10	<10	1	<10	105			0.008
I134473		0.04	<10	<10	7	<10	4			<0.005
I134474		<0.01	<10	<10	1	<10	182			0.012
I134475		<0.01	<10	<10	<1	<10	500			0.007
I134476		<0.01	<10	<10	1	<10	76			0.013
I134477		<0.01	<10	<10	1	<10	383			0.005
I134478D		<0.01	<10	<10	2	<10	417			0.006
I134479		<0.01	<10	<10	1	<10	63			<0.005
I134480		<0.01	<10	<10	2	<10	69			0.016
I134481		<0.01	<10	<10	2	<10	34			<0.005
I134482		<0.01	<10	<10	1	<10	32			<0.005
I134483		<0.01	<10	<10	2	<10	32			<0.005



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CERTIFICATE TR11159530

Project: KCC 2011- 009
P.O. No.: 114694
This report is for 54 Drill Core samples submitted to our lab in Terrace, BC, Canada on 5- AUG- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
TARAS NAHNYBIDA

VIVIENNE MCLENNAN
BRIAN WILLET

BRAD MERCER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: KUTCHO COPPER CORP.
ATTN: VIVIENNE MCLENNAN
999 WEST HASTINGS STREET, SUITE 900
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11159530

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01	ME- ICP41 Ga ppm 10
I134322		1.87	0.4	0.42	382	<10	40	<0.5	<2	3.97	1.5	35	34	577	7.84	<10
I134323		1.14	0.4	0.80	612	<10	<10	<0.5	<2	2.53	0.6	32	111	1980	7.83	<10
I134324		1.51	0.4	0.57	303	<10	<10	<0.5	<2	2.24	5.9	32	112	1110	9.41	<10
I134325		4.37	<0.2	0.86	114	<10	60	<0.5	<2	3.24	5.1	33	95	445	8.50	<10
I134326		1.15	0.3	0.50	65	<10	<10	<0.5	<2	2.32	4.1	31	52	661	9.07	<10
I134327D		<0.02	<0.2	0.49	61	<10	<10	<0.5	<2	2.53	3.2	31	51	637	9.21	<10
I134328		1.68	0.2	0.81	14	<10	<10	<0.5	<2	3.70	26.0	28	64	447	6.75	<10
I134329		1.49	<0.2	0.74	31	10	<10	<0.5	<2	1.07	1.1	38	56	745	8.75	<10
I134330		2.10	<0.2	0.39	11	<10	50	<0.5	<2	0.22	<0.5	2	1	14	1.74	<10
I134331		2.01	<0.2	0.30	3	<10	<10	<0.5	<2	0.08	<0.5	4	8	37	3.81	<10
I134332		2.02	<0.2	0.74	2	<10	10	<0.5	<2	0.03	<0.5	2	2	16	2.17	10
I134333		2.04	<0.2	0.91	<2	<10	<10	<0.5	<2	0.03	<0.5	2	8	56	1.68	10
I134334D		<0.02	<0.2	0.89	2	<10	<10	<0.5	<2	0.03	<0.5	1	9	53	1.61	10
I134335		2.11	<0.2	1.14	<2	<10	<10	<0.5	<2	0.03	<0.5	2	2	83	2.84	10
I134336		2.08	<0.2	1.07	<2	<10	<10	<0.5	<2	0.06	<0.5	3	9	9	2.71	10
I134337		0.79	0.4	5.04	26	<10	<10	<0.5	<2	0.31	<0.5	35	136	1305	8.80	20
I134338		0.29	<0.2	0.28	<2	<10	20	0.6	<2	0.37	<0.5	1	7	10	1.00	<10
I134339		2.53	<0.2	1.18	<2	<10	<10	<0.5	<2	0.04	<0.5	2	3	21	1.78	10
I134340		2.47	<0.2	1.17	<2	<10	<10	<0.5	<2	0.05	<0.5	1	6	4	1.83	10
I134341		2.56	<0.2	0.96	3	<10	<10	<0.5	<2	0.08	<0.5	1	5	2	1.72	10
I134342		2.50	<0.2	0.87	<2	<10	<10	<0.5	<2	0.05	<0.5	1	2	13	1.52	10
I134343D		<0.02	<0.2	0.90	<2	<10	<10	<0.5	<2	0.05	<0.5	1	2	13	1.52	10
I134344		2.44	<0.2	1.11	<2	<10	<10	<0.5	<2	0.05	<0.5	1	7	3	1.84	10
I134345		2.51	<0.2	1.20	<2	<10	<10	<0.5	<2	0.09	<0.5	1	3	4	1.72	10
I134346		2.74	<0.2	2.59	<2	<10	<10	<0.5	<2	0.28	<0.5	9	37	168	3.49	10
I134347		2.62	<0.2	1.37	3	<10	<10	<0.5	<2	0.10	<0.5	7	12	19	3.26	10
I134348		0.51	<0.2	4.47	10	<10	<10	0.5	<2	0.16	<0.5	40	139	25	6.77	20
I134349D		<0.02	<0.2	4.71	9	<10	<10	0.5	<2	0.17	<0.5	39	146	34	7.02	20
I134350		2.63	0.2	1.86	3	<10	<10	<0.5	<2	0.07	<0.5	6	23	4	3.59	10
I134351		2.60	<0.2	1.51	<2	<10	<10	<0.5	<2	0.04	<0.5	3	4	4	2.94	10
I134352		2.56	<0.2	1.75	3	<10	<10	<0.5	3	0.21	<0.5	8	23	8	3.58	10
I134353		2.43	<0.2	0.84	5	<10	<10	<0.5	3	0.05	<0.5	1	2	6	1.51	<10
I134354		2.46	<0.2	0.95	2	<10	<10	<0.5	3	0.10	<0.5	3	4	7	2.57	<10
I134355		<0.02	<0.2	0.97	3	<10	<10	<0.5	2	0.09	<0.5	3	9	6	2.66	<10
I134356		2.59	<0.2	0.35	6	<10	<10	<0.5	3	0.08	<0.5	2	1	214	2.35	<10
I134357		2.52	<0.2	0.28	2	<10	<10	<0.5	2	0.10	<0.5	1	5	2	1.80	<10
I134358		2.49	<0.2	0.32	4	<10	10	<0.5	2	0.15	<0.5	2	2	2	2.06	<10
I134359		2.52	<0.2	0.25	2	<10	<10	<0.5	2	0.11	<0.5	4	4	3	3.14	<10
I134360		2.60	<0.2	0.29	3	<10	<10	<0.5	3	0.13	<0.5	4	1	6	2.64	<10
I134361D		<0.02	<0.2	0.30	5	<10	<10	<0.5	3	0.14	<0.5	4	2	7	2.76	<10



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CERTIFICATE OF ANALYSIS TR11159530

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
I134322		1	0.01	<10	4.07	3170	12	0.05	27	440	11	3.81	<2	24	53	<20
I134323		1	<0.01	<10	4.49	4440	5	0.06	50	660	11	2.46	<2	27	33	<20
I134324		1	0.01	<10	4.50	3240	9	0.07	51	690	10	0.97	<2	28	32	<20
I134325		<1	0.02	<10	4.83	3730	9	0.06	47	710	12	2.50	<2	30	47	<20
I134326		1	0.01	<10	5.50	3510	2	0.03	44	680	18	5.90	<2	26	32	<20
I134327D		1	0.01	<10	5.64	3560	2	0.03	45	660	21	6.00	<2	26	33	<20
I134328		2	0.01	<10	4.65	3670	<1	0.06	53	830	7	2.81	<2	27	41	<20
I134329		1	0.02	<10	6.57	2830	3	0.03	58	590	14	4.62	<2	24	28	<20
I134330		<1	0.16	10	1.48	532	<1	0.03	2	30	4	0.53	<2	1	9	<20
I134331		1	0.06	10	1.39	484	2	0.03	2	20	3	3.05	<2	1	6	<20
I134332		<1	0.06	10	1.20	395	2	0.04	2	20	3	1.29	<2	1	6	<20
I134333		1	0.05	10	1.19	439	<1	0.03	1	30	3	0.64	<2	1	4	<20
I134334D		<1	0.04	10	1.19	435	<1	0.03	1	30	4	0.61	<2	1	4	<20
I134335		<1	0.02	10	1.42	569	<1	0.06	1	30	3	1.85	<2	2	3	<20
I134336		<1	0.02	<10	1.44	598	1	0.03	2	30	4	1.76	<2	2	4	<20
I134337		1	<0.01	<10	5.32	2310	7	0.02	49	720	17	4.42	<2	28	4	<20
I134338		<1	0.15	60	0.11	303	<1	0.03	1	160	9	<0.01	<2	1	14	30
I134339		<1	0.05	10	1.19	553	<1	0.05	1	30	3	0.66	<2	2	3	<20
I134340		<1	0.03	10	1.46	596	<1	0.03	1	20	5	0.51	<2	2	5	<20
I134341		1	0.03	10	1.47	597	<1	0.04	2	10	3	0.44	<2	2	5	<20
I134342		<1	0.03	10	1.32	545	<1	0.04	1	20	3	0.32	<2	2	4	<20
I134343D		<1	0.03	10	1.32	546	<1	0.05	1	20	4	0.31	<2	2	5	<20
I134344		<1	0.02	10	1.53	615	<1	0.03	2	20	3	0.35	<2	2	5	<20
I134345		1	0.02	10	2.01	844	<1	0.06	2	30	5	0.32	<2	3	5	<20
I134346		1	<0.01	<10	3.43	1470	5	0.03	17	110	7	1.52	<2	7	8	<20
I134347		1	0.01	<10	2.04	745	7	0.03	5	30	5	2.08	<2	3	4	<20
I134348		1	0.02	<10	5.26	1730	3	0.01	66	370	9	3.96	<2	17	5	<20
I134349D		1	0.02	<10	5.59	1835	4	0.02	69	380	8	3.99	<2	17	6	<20
I134350		1	0.01	<10	2.40	788	4	0.03	10	60	5	2.04	<2	4	4	<20
I134351		1	0.06	10	1.78	588	1	0.05	3	30	5	1.43	<2	2	5	<20
I134352		<1	0.03	<10	2.40	795	4	0.03	9	340	<2	1.83	<2	7	6	<20
I134353		<1	0.05	10	0.91	319	1	0.06	<1	70	<2	0.63	<2	1	4	<20
I134354		<1	0.06	10	1.48	487	7	0.03	<1	40	<2	1.33	<2	1	4	<20
I134355		<1	0.06	10	1.49	496	6	0.04	<1	30	<2	1.36	<2	1	4	<20
I134356		<1	0.08	10	1.56	554	2	0.04	<1	20	2	1.05	<2	1	6	<20
I134357		<1	0.07	10	1.34	486	<1	0.04	<1	20	<2	0.49	<2	1	5	<20
I134358		<1	0.05	10	1.93	522	<1	0.04	<1	30	<2	0.31	<2	2	6	<20
I134359		<1	0.06	<10	1.39	449	1	0.04	<1	20	<2	1.61	<2	1	6	<20
I134360		<1	0.07	<10	1.14	418	<1	0.05	<1	20	2	1.41	<2	1	5	<20
I134361D		<1	0.07	<10	1.14	425	1	0.06	<1	20	<2	1.53	<2	1	5	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- AA23
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Au ppm 0.005
I134322		<0.01	<10	<10	217	<10	692	<0.005
I134323		<0.01	<10	<10	239	<10	555	<0.005
I134324		<0.01	<10	<10	232	<10	1220	<0.005
I134325		<0.01	<10	<10	231	<10	1295	<0.005
I134326		<0.01	<10	<10	189	<10	1410	<0.005
I134327D		0.01	<10	<10	188	<10	1275	<0.005
I134328		0.01	<10	<10	180	<10	5320	<0.005
I134329		<0.01	<10	<10	159	<10	733	<0.005
I134330		<0.01	<10	<10	5	<10	123	<0.005
I134331		<0.01	<10	<10	4	<10	56	<0.005
I134332		<0.01	<10	<10	3	<10	48	<0.005
I134333		<0.01	<10	<10	3	<10	52	<0.005
I134334D		<0.01	<10	<10	3	<10	53	<0.005
I134335		<0.01	<10	<10	5	<10	60	<0.005
I134336		<0.01	<10	<10	9	<10	73	<0.005
I134337		0.01	<10	<10	214	<10	212	0.008
I134338		0.02	<10	<10	11	<10	29	<0.005
I134339		<0.01	<10	<10	4	<10	52	<0.005
I134340		<0.01	<10	<10	3	<10	50	<0.005
I134341		<0.01	<10	<10	3	<10	53	<0.005
I134342		<0.01	<10	<10	3	<10	51	<0.005
I134343D		<0.01	<10	<10	3	<10	52	<0.005
I134344		<0.01	<10	<10	4	<10	86	<0.005
I134345		<0.01	<10	<10	4	<10	72	<0.005
I134346		<0.01	<10	<10	40	<10	202	<0.005
I134347		<0.01	<10	<10	15	<10	80	<0.005
I134348		0.01	<10	<10	117	<10	246	<0.005
I134349D		0.01	<10	<10	124	<10	258	<0.005
I134350		<0.01	<10	<10	22	<10	78	<0.005
I134351		<0.01	<10	<10	6	<10	55	<0.005
I134352		<0.01	<10	<10	22	<10	79	<0.005
I134353		<0.01	<10	<10	2	<10	43	<0.005
I134354		<0.01	<10	<10	3	<10	50	<0.005
I134355		<0.01	<10	<10	3	<10	49	<0.005
I134356		<0.01	<10	<10	3	<10	56	<0.005
I134357		<0.01	<10	<10	2	<10	48	<0.005
I134358		<0.01	<10	<10	3	<10	64	<0.005
I134359		<0.01	<10	<10	2	<10	107	<0.005
I134360		<0.01	<10	<10	2	<10	40	<0.005
I134361D		<0.01	<10	<10	2	<10	42	<0.005



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Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10
I134362		2.52	<0.2	0.27	5	<10	<10	<0.5	3	0.10	<0.5	3	2	2.12	<10
I134363		2.60	<0.2	0.30	3	<10	<10	<0.5	2	0.08	<0.5	2	3	1.92	<10
I134364		2.45	<0.2	0.24	4	<10	<10	<0.5	3	0.10	<0.5	4	4	2.60	<10
I134365		2.50	<0.2	0.29	12	<10	<10	<0.5	4	0.12	<0.5	6	5	5.58	<10
I134366		2.59	<0.2	0.21	8	<10	<10	<0.5	4	0.15	<0.5	4	5	2.83	<10
I134367D		<0.02	<0.2	0.26	5	<10	<10	<0.5	4	0.17	<0.5	3	5	2.71	<10
I134368		2.44	<0.2	0.23	7	<10	<10	<0.5	3	0.16	<0.5	3	4	2.39	<10
I134369		2.68	<0.2	0.42	6	<10	<10	<0.5	2	0.18	<0.5	8	25	4.37	<10
I134370		2.75	<0.2	0.62	12	<10	<10	<0.5	4	0.21	<0.5	13	40	6.16	<10
I134371		2.45	0.4	0.32	18	<10	20	<0.5	4	0.07	<0.5	4	4	2.43	<10
I134372		2.58	<0.2	0.50	15	<10	<10	<0.5	3	0.09	<0.5	1	2	2.63	<10
I134373		0.33	<0.2	0.31	3	<10	20	0.5	3	0.38	<0.5	1	5	0.97	<10
I134374		2.59	<0.2	0.32	4	<10	<10	<0.5	3	0.07	<0.5	3	6	3.14	<10
I134375		2.55	<0.2	0.29	8	<10	<10	<0.5	3	0.07	<0.5	1	3	2.07	<10



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CERTIFICATE OF ANALYSIS TR11159530

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I134362		<1	0.06	<10	1.14	446	<1	0.05	<1	20	<2	0.75	<2	1	5	<20
I134363		<1	0.05	10	1.11	508	<1	0.06	<1	30	<2	0.49	<2	2	5	<20
I134364		<1	0.04	<10	1.42	534	1	0.06	<1	20	<2	1.39	<2	2	7	<20
I134365		<1	0.06	<10	1.73	604	2	0.05	<1	10	<2	4.77	<2	1	8	<20
I134366		<1	0.03	<10	1.05	391	2	0.04	<1	10	<2	2.15	<2	1	9	<20
I134367D		<1	0.03	<10	1.08	405	2	0.06	<1	20	<2	1.98	<2	1	10	<20
I134368		<1	0.04	<10	1.14	523	1	0.05	2	20	3	1.46	<2	1	5	<20
I134369		<1	0.06	<10	3.21	1115	3	0.06	18	40	2	2.74	<2	5	10	<20
I134370		<1	0.04	<10	3.91	1495	4	0.04	36	120	3	4.50	<2	9	9	<20
I134371		<1	0.11	10	1.31	453	6	0.04	4	40	3	1.93	<2	1	5	<20
I134372		<1	0.06	<10	2.12	634	1	0.04	<1	120	<2	1.92	<2	1	5	<20
I134373		<1	0.18	60	0.10	270	1	0.05	<1	160	9	0.01	<2	1	14	30
I134374		<1	0.06	<10	1.88	752	2	0.05	3	40	<2	2.12	<2	2	4	<20
I134375		<1	0.05	<10	1.49	517	1	0.06	<1	20	<2	1.13	<2	1	5	<20



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CERTIFICATE OF ANALYSIS TR11159530

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- AA23
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.005
I134362		<0.01	<10	<10	2	<10	88	<0.005
I134363		<0.01	<10	<10	2	<10	52	<0.005
I134364		<0.01	<10	<10	2	<10	57	<0.005
I134365		<0.01	<10	<10	3	<10	77	<0.005
I134366		<0.01	<10	<10	2	<10	44	<0.005
I134367D		<0.01	<10	<10	2	<10	44	<0.005
I134368		<0.01	<10	<10	2	<10	50	<0.005
I134369		<0.01	<10	<10	30	<10	114	<0.005
I134370		<0.01	<10	<10	47	<10	141	<0.005
I134371		<0.01	<10	<10	6	<10	57	<0.005
I134372		<0.01	<10	<10	2	<10	89	<0.005
I134373		0.01	<10	<10	9	<10	27	<0.005
I134374		<0.01	<10	<10	8	<10	116	<0.005
I134375		<0.01	<10	<10	3	<10	57	<0.005



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CERTIFICATE TR11170687

Project: KCC- 2011- 013
 P.O. No.: 114694
 This report is for 121 Drill Core samples submitted to our lab in Terrace, BC, Canada on 23- AUG- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 BRAD MERCER
 BRIAN WILLET

MARISSA LOE
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 DANIEL NG

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22	Sample login - Rcd w/o BarCode
WEI- 21	Received Sample Weight
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 22d	Sample login - Rcd w/o BarCode dup

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS

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 ATTN: MARISSA LOE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11170687

Sample Description	Method Analyte Units LOR	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Au ppm 0.005	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
I134408		<0.005	<0.2	0.19	25	<10	20	<0.5	<2	0.51	<0.5	1	1	7	2.07	<10
I134409		<0.005	<0.2	0.32	16	<10	20	<0.5	<2	0.61	<0.5	2	2	7	2.84	<10
I134410		<0.005	<0.2	0.32	15	<10	20	<0.5	<2	0.56	<0.5	1	1	6	2.23	<10
I134411		<0.005	<0.2	0.28	9	<10	20	<0.5	<2	0.64	<0.5	1	1	9	2.60	<10
I134412		<0.005	<0.2	0.36	15	<10	20	<0.5	<2	0.54	<0.5	1	13	15	4.73	<10
I134413D		0.007	0.2	0.38	14	<10	20	<0.5	<2	0.59	<0.5	1	13	15	5.09	<10
I134414		<0.005	<0.2	0.27	6	<10	10	<0.5	<2	0.64	<0.5	3	4	8	3.29	<10
I134415		0.009	0.2	0.19	9	<10	20	<0.5	<2	0.59	<0.5	2	41	11	2.34	<10
I134416		0.006	0.4	0.16	9	<10	20	<0.5	<2	0.45	1.0	2	9	12	2.42	<10
I134417		0.012	0.4	0.24	32	<10	10	<0.5	<2	1.46	8.6	14	22	183	5.11	<10
I134418		<0.005	<0.2	0.25	4	<10	10	<0.5	<2	0.42	<0.5	2	8	4	1.96	<10
I134419		<0.005	<0.2	0.23	<2	<10	10	<0.5	<2	0.20	<0.5	1	7	1	1.91	<10
I134420D		<0.005	<0.2	0.25	2	<10	10	<0.5	<2	0.22	<0.5	<1	5	1	1.88	<10
I135517		<0.005	<0.2	0.85	7	<10	10	<0.5	<2	6.44	<0.5	31	9	37	2.73	<10
I135518		<0.005	<0.2	0.93	9	<10	10	<0.5	<2	5.06	<0.5	28	9	38	2.86	<10
I135519		<0.005	<0.2	0.98	10	<10	30	<0.5	<2	6.13	<0.5	32	13	27	3.42	<10
I135520		<0.005	<0.2	0.54	9	<10	30	<0.5	<2	6.36	<0.5	32	6	35	3.21	<10
I135521D		<0.005	<0.2	0.58	9	<10	30	<0.5	<2	6.9	<0.5	31	7	33	3.21	<10
I135522		0.007	<0.2	0.26	8	<10	30	<0.5	<2	10.5	<0.5	28	4	33	3.70	<10
I135523D		0.006	<0.2	0.27	9	<10	30	<0.5	<2	10.8	<0.5	30	4	35	3.99	<10
I135524		<0.005	<0.2	0.27	9	<10	40	<0.5	<2	5.34	<0.5	24	6	48	3.01	<10
I135525		0.836	68.6	0.69	47	<10	20	<0.5	70	0.87	70.1	116	30	>10000	30.1	<10
I135526		<0.005	0.3	0.33	5	<10	60	<0.5	<2	3.81	<0.5	14	4	61	2.63	<10
I135527		<0.005	<0.2	0.24	3	<10	50	<0.5	<2	1.95	<0.5	3	2	18	2.38	<10
I135528		<0.005	<0.2	0.27	<2	<10	30	<0.5	<2	1.81	<0.5	2	2	16	2.15	<10
I135529		0.005	<0.2	0.03	3	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.05	<10
I135530		<0.005	<0.2	0.29	4	<10	30	<0.5	<2	1.74	<0.5	3	2	18	2.30	<10
I135531		<0.005	<0.2	0.34	4	<10	20	<0.5	<2	1.65	<0.5	2	2	16	2.54	<10
I135532		<0.005	<0.2	0.78	3	<10	20	<0.5	<2	1.88	<0.5	2	2	16	2.40	<10
I135533		<0.005	<0.2	1.27	5	<10	40	<0.5	<2	1.59	<0.5	2	2	14	2.43	<10
I135534		<0.005	<0.2	1.58	2	<10	20	<0.5	<2	1.65	<0.5	2	2	13	2.57	<10
I135535		<0.005	<0.2	1.61	4	<10	20	<0.5	<2	1.80	<0.5	2	3	22	2.83	<10
I135536		0.008	0.5	0.90	22	<10	20	<0.5	<2	2.39	0.6	14	3	380	4.74	<10
I135537		0.007	0.3	0.83	8	<10	30	<0.5	<2	1.96	<0.5	7	3	114	3.42	<10
I135538		<0.005	0.3	1.25	7	<10	30	<0.5	<2	1.38	<0.5	4	3	135	2.74	<10
I135539		0.011	3.0	0.50	19	<10	30	<0.5	<2	10.0	13.8	4	3	864	2.90	<10
I135540		0.021	2.3	0.36	20	<10	30	<0.5	<2	11.7	7.7	8	2	550	4.65	<10
I135541		<0.005	0.2	0.09	14	<10	20	<0.5	<2	14.7	0.7	<1	2	18	1.50	<10
I135542		<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	1	0.05	<10
I135543		0.063	6.6	0.22	27	<10	30	<0.5	3	9.7	30.9	22	1	2130	7.87	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I134408		<1	0.05	<10	0.49	443	3	0.05	<1	90	3	1.32	<2	2	9	<20
I134409		<1	0.05	<10	0.65	395	2	0.05	<1	90	4	2.20	<2	2	18	<20
I134410		<1	0.07	<10	0.61	337	2	0.04	<1	120	3	1.68	<2	2	25	<20
I134411		<1	0.07	<10	0.75	381	4	0.05	1	130	4	1.69	<2	2	23	<20
I134412		<1	0.07	<10	0.80	386	3	0.08	1	100	6	3.99	<2	1	16	<20
I134413D		<1	0.08	<10	0.82	428	3	0.09	2	90	6	4.28	<2	2	16	<20
I134414		<1	0.06	<10	0.90	460	3	0.06	2	70	2	2.15	<2	2	14	<20
I134415		<1	0.06	<10	0.37	269	3	0.06	2	60	5	1.73	<2	2	11	<20
I134416		<1	0.06	<10	0.46	214	4	0.05	2	30	11	1.92	<2	1	7	<20
I134417		<1	0.04	<10	1.84	891	13	0.08	18	100	7	3.38	2	6	18	<20
I134418		<1	0.02	<10	0.40	448	<1	0.08	2	40	<2	0.92	<2	2	9	<20
I134419		<1	0.02	<10	0.28	403	<1	0.07	1	10	<2	0.55	<2	2	6	<20
I134420D		<1	0.02	<10	0.30	422	<1	0.08	1	10	<2	0.57	<2	2	6	<20
I135517		<1	0.07	<10	0.56	1480	<1	0.06	13	270	2	1.78	<2	8	70	<20
I135518		<1	0.06	<10	0.63	1345	1	0.07	11	240	4	1.96	<2	6	56	<20
I135519		<1	0.10	<10	0.81	1600	<1	0.07	14	250	4	2.34	<2	5	69	<20
I135520		<1	0.08	<10	0.80	2000	<1	0.06	15	280	5	2.39	<2	4	67	<20
I135521D		<1	0.09	<10	0.80	1995	<1	0.07	15	280	5	2.30	<2	5	67	<20
I135522		<1	0.08	<10	0.58	2340	<1	0.06	15	270	11	3.49	<2	4	107	<20
I135523D		<1	0.08	<10	0.59	2400	1	0.06	15	280	10	3.79	<2	4	111	<20
I135524		<1	0.06	<10	0.72	1175	1	0.05	16	210	10	2.41	<2	4	49	<20
I135525		1	0.07	<10	1.07	539	9	<0.01	7	80	2620	>10.0	14	1	3	<20
I135526		<1	0.07	<10	1.11	548	<1	0.05	11	180	10	1.30	<2	5	27	<20
I135527		<1	0.04	<10	1.33	264	<1	0.04	2	170	3	0.68	<2	5	15	<20
I135528		<1	0.04	<10	1.15	196	<1	0.05	2	310	2	0.69	<2	5	14	<20
I135529		<1	<0.01	<10	1.99	38	<1	<0.01	<1	40	<2	0.05	<2	<1	5180	20
I135530		<1	0.03	<10	1.35	219	3	0.05	3	220	2	0.62	<2	6	17	<20
I135531		<1	0.03	<10	1.50	267	3	0.06	2	170	2	0.56	<2	6	13	<20
I135532		<1	0.02	<10	1.49	355	2	0.05	2	200	2	0.66	<2	5	11	<20
I135533		<1	0.03	<10	1.59	370	2	0.06	2	280	3	0.49	<2	5	9	<20
I135534		<1	0.03	<10	1.82	402	1	0.05	2	210	2	0.31	<2	5	9	<20
I135535		<1	0.04	<10	1.75	426	<1	0.07	1	350	4	0.37	<2	5	11	<20
I135536		<1	0.04	<10	1.59	715	7	0.04	4	230	6	3.54	<2	4	10	<20
I135537		<1	0.05	<10	1.57	521	4	0.07	6	270	7	1.63	<2	4	11	<20
I135538		<1	0.04	<10	2.07	534	4	0.06	2	260	4	0.70	<2	5	9	<20
I135539		1	0.04	<10	6.24	2080	15	0.04	5	820	48	1.48	<2	5	45	<20
I135540		<1	0.04	<10	7.13	1735	21	0.03	1	1390	27	4.43	<2	4	53	<20
I135541		<1	0.02	<10	8.60	2410	1	0.01	<1	380	17	0.15	<2	4	65	<20
I135542		<1	<0.01	<10	1.78	31	<1	<0.01	<1	50	<2	0.10	<2	<1	5220	20
I135543		1	0.05	<10	5.93	1615	51	0.03	4	550	54	9.91	2	3	50	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46	WEI- 21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	Zn %	Recvd Wt. kg
		0.01	10	10	1	10	2	1	0.001	0.001	0.02
I134408		<0.01	<10	<10	<1	<10	26				1.21
I134409		<0.01	<10	<10	<1	<10	25				0.87
I134410		<0.01	<10	<10	<1	<10	23				0.86
I134411		<0.01	<10	<10	<1	<10	37				2.97
I134412		<0.01	<10	<10	1	<10	68				2.95
I134413D		<0.01	<10	<10	1	<10	71				<0.02
I134414		<0.01	<10	<10	2	<10	139				2.76
I134415		<0.01	<10	<10	1	<10	57				2.14
I134416		<0.01	<10	<10	1	<10	227				2.59
I134417		<0.01	<10	<10	30	<10	1710				2.59
I134418		<0.01	<10	<10	2	<10	40				2.39
I134419		<0.01	<10	<10	1	<10	34				1.79
I134420D		<0.01	<10	<10	1	<10	35				<0.02
I135517		<0.01	<10	<10	28	<10	32				2.43
I135518		<0.01	<10	<10	28	<10	29				2.42
I135519		<0.01	<10	<10	25	<10	36				2.43
I135520		<0.01	<10	<10	14	<10	40				2.28
I135521D		<0.01	<10	<10	14	<10	41				<0.02
I135522		<0.01	<10	<10	7	<10	28				2.17
I135523D		<0.01	<10	<10	7	<10	28				<0.02
I135524		<0.01	<10	<10	8	<10	45				2.50
I135525		0.01	10	<10	10	30	>10000	61	1.440	2.91	0.13
I135526		<0.01	<10	<10	8	<10	117				2.37
I135527		<0.01	<10	<10	5	<10	116				2.50
I135528		<0.01	<10	<10	5	<10	94				2.15
I135529		<0.01	<10	10	1	<10	4				0.21
I135530		<0.01	<10	<10	6	<10	97				2.38
I135531		<0.01	<10	<10	5	<10	112				2.43
I135532		<0.01	<10	<10	4	<10	97				2.44
I135533		<0.01	<10	<10	5	<10	107				2.44
I135534		<0.01	<10	<10	6	<10	121				2.25
I135535		<0.01	<10	<10	7	<10	181				1.68
I135536		<0.01	<10	<10	6	<10	298				1.17
I135537		<0.01	<10	<10	8	<10	275				2.29
I135538		<0.01	<10	<10	8	<10	293				2.44
I135539		<0.01	<10	<10	13	<10	2600	4	0.088	0.315	2.25
I135540		<0.01	<10	10	14	<10	1850				1.70
I135541		<0.01	<10	<10	8	<10	260				1.46
I135542		<0.01	<10	10	1	<10	7				0.19
I135543		<0.01	<10	<10	12	<10	5320	7	0.207	0.637	2.31



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Sample Description	Method Analyte Units LOR	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Au ppm 0.005	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
I135544		<0.005	0.2	0.24	<2	<10	40	<0.5	<2	0.63	<0.5	17	2	129	4.67	<10
I135545		0.005	<0.2	0.28	8	<10	50	<0.5	<2	0.67	<0.5	11	1	49	3.04	<10
I135546		0.014	0.6	0.18	6	<10	30	<0.5	<2	0.16	<0.5	21	3	230	9.44	<10
I135547D		0.015	0.4	0.15	5	<10	20	<0.5	<2	0.17	<0.5	21	2	213	9.35	<10
I135548		0.019	0.5	0.19	11	<10	30	<0.5	<2	0.61	1.3	17	3	128	9.15	<10
I135549		0.910	70.3	0.70	45	<10	20	<0.5	62	0.89	73.0	111	30	>10000	29.6	<10
I135550		0.019	0.6	0.17	18	<10	30	<0.5	2	0.56	<0.5	29	1	129	8.92	<10
I135551D		0.024	0.7	0.19	16	<10	30	<0.5	2	0.56	<0.5	28	2	106	8.72	<10
I135552		0.016	0.3	0.17	4	<10	40	<0.5	<2	1.52	<0.5	14	2	84	5.83	<10
I135553		0.010	0.2	0.19	6	<10	30	<0.5	<2	1.56	<0.5	12	2	32	4.88	<10
I135554		0.006	<0.2	0.17	2	<10	30	<0.5	<2	0.97	<0.5	14	2	19	4.35	<10
I135555		0.005	<0.2	0.24	2	<10	30	<0.5	<2	1.05	<0.5	16	2	14	4.51	<10
I135556		0.007	<0.2	0.26	2	<10	40	<0.5	<2	1.16	<0.5	17	2	13	4.17	<10
I135557		<0.005	<0.2	0.27	6	<10	40	<0.5	<2	1.04	<0.5	15	2	14	5.27	<10
I135558		0.006	<0.2	0.76	3	<10	40	<0.5	<2	0.94	<0.5	8	1	17	2.95	<10
I135559		0.005	0.2	0.79	9	<10	40	<0.5	<2	1.36	<0.5	14	2	16	4.23	<10
I135560		<0.005	0.3	1.64	7	<10	30	<0.5	<2	0.42	<0.5	10	1	10	3.63	<10
I135561		0.007	0.5	1.51	34	<10	30	<0.5	<2	0.83	<0.5	13	2	18	4.77	<10
I135562		0.006	0.4	0.49	52	<10	20	<0.5	<2	0.42	<0.5	10	2	15	4.25	<10
I135563		0.005	0.3	0.93	15	<10	10	<0.5	<2	1.05	<0.5	9	2	8	2.88	<10
I135564		<0.005	<0.2	0.20	10	<10	10	<0.5	<2	0.28	<0.5	6	2	10	4.08	<10
I135565D		<0.005	<0.2	0.21	9	<10	10	<0.5	<2	0.27	<0.5	7	2	11	4.20	<10
I135566		0.007	<0.2	0.27	8	<10	10	<0.5	2	0.30	<0.5	6	3	30	6.14	<10
I135567		0.822	68.9	0.71	53	<10	<10	<0.5	48	0.91	74.1	117	31	>10000	31.0	10
I135568		0.010	0.3	1.18	19	<10	20	<0.5	<2	0.72	<0.5	26	3	10	5.14	<10
I135569		<0.005	<0.2	0.89	8	<10	20	<0.5	<2	0.87	<0.5	14	3	10	4.37	<10
I135570D		<0.005	<0.2	0.82	7	<10	20	<0.5	<2	0.99	<0.5	13	2	6	4.20	<10
I135571		<0.005	<0.2	0.52	8	<10	30	<0.5	<2	0.52	<0.5	11	2	5	3.40	<10
I135572		<0.005	<0.2	0.37	3	<10	30	<0.5	<2	1.02	<0.5	13	4	6	4.01	<10
I135573		<0.005	<0.2	0.75	4	<10	20	<0.5	<2	0.46	<0.5	10	5	5	3.39	<10
I135574		<0.005	<0.2	0.62	8	<10	<10	<0.5	<2	0.66	<0.5	7	5	4	2.15	<10
I135575		<0.005	<0.2	1.44	11	<10	10	<0.5	<2	0.15	<0.5	14	5	12	2.82	<10
I135576		<0.005	0.2	0.04	2	<10	<10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.06	<10
I135577		<0.005	<0.2	2.97	7	<10	<10	<0.5	<2	0.12	<0.5	15	2	13	3.51	10
I135578		<0.005	<0.2	4.08	19	<10	<10	<0.5	<2	0.53	<0.5	28	1	12	5.72	10
I135579		<0.005	<0.2	0.31	8	<10	<10	<0.5	<2	11.8	<0.5	26	5	42	2.17	<10
I135580		<0.005	<0.2	0.27	9	<10	<10	<0.5	<2	10.9	<0.5	18	3	26	2.22	<10
I135581		0.006	<0.2	0.34	14	<10	10	<0.5	<2	6.7	<0.5	51	6	52	4.04	<10
I135582D		0.006	0.2	0.33	11	<10	10	<0.5	<2	6.58	<0.5	47	5	45	3.76	<10
I135583		<0.005	0.2	0.22	13	<10	20	<0.5	<2	7.6	<0.5	35	3	36	3.52	<10



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		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
I135544		<1	0.10	<10	0.72	204	21	0.01	<1	110	2	4.46	<2	1	5	<20
I135545		<1	0.09	<10	1.87	287	19	0.01	<1	130	3	1.83	<2	2	8	<20
I135546		<1	0.08	<10	0.25	77	18	0.01	<1	30	4	>10.0	2	1	3	<20
I135547D		<1	0.07	<10	0.26	69	20	<0.01	<1	30	5	>10.0	<2	1	3	<20
I135548		<1	0.09	<10	0.29	191	40	0.01	<1	10	5	>10.0	<2	1	4	<20
I135549		1	0.07	<10	1.10	558	9	<0.01	9	80	2730	>10.0	9	1	3	<20
I135550		<1	0.09	<10	0.27	127	13	0.01	<1	10	14	>10.0	<2	1	4	<20
I135551D		<1	0.10	<10	0.27	139	13	0.01	<1	20	8	>10.0	<2	1	5	<20
I135552		<1	0.09	<10	0.73	325	12	0.01	<1	100	4	6.59	<2	2	7	<20
I135553		<1	0.09	<10	0.76	286	8	0.01	<1	130	2	5.03	<2	1	7	<20
I135554		<1	0.09	<10	0.56	170	11	0.01	<1	90	<2	4.46	<2	1	5	<20
I135555		<1	0.09	<10	1.14	237	10	0.01	<1	120	2	3.68	<2	2	6	<20
I135556		<1	0.10	<10	1.28	252	12	0.02	<1	200	<2	3.22	2	2	6	<20
I135557		<1	0.09	<10	1.15	229	6	0.02	<1	120	<2	4.69	<2	2	7	<20
I135558		<1	0.09	<10	1.87	240	6	0.01	<1	130	<2	1.47	<2	2	7	<20
I135559		<1	0.08	<10	1.82	342	12	0.01	<1	90	2	3.23	<2	2	9	<20
I135560		<1	0.10	<10	1.89	173	19	0.02	1	190	2	2.43	<2	2	4	<20
I135561		<1	0.09	<10	1.91	289	28	0.02	<1	120	6	3.78	8	2	6	<20
I135562		<1	0.09	<10	0.88	152	29	0.02	<1	150	4	3.91	6	1	4	<20
I135563		<1	0.08	<10	1.44	335	18	0.02	1	130	4	2.00	<2	2	6	<20
I135564		<1	0.10	<10	0.21	87	12	0.02	<1	120	2	4.10	<2	1	2	<20
I135565D		<1	0.10	<10	0.20	75	13	0.02	1	120	2	4.32	<2	1	2	<20
I135566		<1	0.10	<10	0.30	93	22	0.02	<1	110	2	6.61	<2	1	3	<20
I135567		1	0.08	<10	1.15	562	9	0.01	10	70	2710	>10.0	6	1	3	<20
I135568		1	0.05	<10	1.47	209	22	0.03	<1	160	2	4.65	<2	2	5	<20
I135569		<1	0.09	<10	1.16	231	20	0.02	<1	60	2	3.78	<2	1	6	<20
I135570D		<1	0.08	<10	1.18	252	17	0.02	<1	60	2	3.70	<2	1	6	<20
I135571		<1	0.11	<10	0.61	134	22	0.02	<1	240	2	3.07	<2	1	4	<20
I135572		<1	0.08	<10	0.68	227	9	0.02	<1	80	2	3.99	<2	1	5	<20
I135573		<1	0.09	<10	0.79	156	3	0.02	<1	120	2	2.91	<2	1	4	<20
I135574		<1	0.08	<10	0.82	193	7	0.02	1	110	<2	1.71	<2	1	4	<20
I135575		<1	0.08	<10	1.45	141	14	0.02	<1	80	<2	1.80	<2	1	2	<20
I135576		<1	<0.01	<10	1.55	39	<1	0.01	1	40	<2	0.14	<2	<1	5020	30
I135577		<1	0.03	<10	3.32	249	11	<0.01	<1	180	2	1.04	<2	4	3	<20
I135578		<1	<0.01	<10	4.89	458	1	<0.01	<1	370	2	2.52	<2	8	4	<20
I135579		<1	0.07	<10	0.57	2430	1	0.04	12	400	3	0.68	<2	9	165	<20
I135580		<1	0.07	<10	0.45	1770	10	0.05	8	530	6	1.72	<2	5	155	<20
I135581		<1	0.08	<10	0.74	1720	1	0.05	19	240	7	3.36	<2	5	85	<20
I135582D		<1	0.08	<10	0.72	1660	1	0.05	18	240	7	3.08	<2	4	82	<20
I135583		<1	0.07	<10	0.66	2200	<1	0.05	15	260	7	3.19	<2	4	78	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46	WEI- 21
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001	Zn % 0.001	Recvd Wt. kg 0.02
I135544		<0.01	<10	<10	2	<10	136				1.95
I135545		<0.01	<10	<10	2	<10	238				2.39
I135546		<0.01	<10	<10	1	<10	45				2.44
I135547D		<0.01	<10	<10	1	<10	45				<0.02
I135548		<0.01	<10	<10	1	<10	106				2.00
I135549		0.01	10	<10	10	10	>10000	64	1.475	2.98	0.13
I135550		<0.01	<10	<10	1	<10	76				2.37
I135551D		<0.01	<10	<10	1	<10	32				<0.02
I135552		<0.01	<10	<10	1	<10	56				2.02
I135553		<0.01	<10	<10	1	<10	51				2.17
I135554		<0.01	<10	<10	1	<10	37				2.05
I135555		<0.01	<10	<10	2	<10	132				2.28
I135556		<0.01	<10	<10	2	<10	99				2.27
I135557		<0.01	<10	<10	2	<10	77				2.24
I135558		<0.01	<10	<10	2	<10	98				2.13
I135559		<0.01	<10	<10	3	<10	72				2.08
I135560		<0.01	<10	<10	2	<10	82				2.26
I135561		<0.01	<10	<10	3	<10	105				2.37
I135562		<0.01	<10	<10	2	<10	124				2.45
I135563		<0.01	<10	<10	2	<10	221				2.42
I135564		<0.01	<10	<10	1	<10	27				2.49
I135565D		<0.01	<10	<10	<1	<10	28				<0.02
I135566		<0.01	<10	<10	<1	<10	34				2.69
I135567		0.01	10	<10	8	20	>10000	62	1.465	3.04	0.16
I135568		<0.01	<10	<10	4	<10	101				2.62
I135569		<0.01	<10	<10	2	<10	72				2.33
I135570D		<0.01	<10	<10	2	<10	61				<0.02
I135571		<0.01	<10	<10	1	<10	37				2.38
I135572		<0.01	<10	<10	1	<10	24				2.50
I135573		<0.01	<10	<10	2	<10	43				2.08
I135574		<0.01	<10	<10	1	<10	31				1.05
I135575		<0.01	<10	<10	3	<10	60				2.80
I135576		<0.01	<10	10	<1	<10	<2				0.15
I135577		<0.01	<10	<10	7	<10	78				2.07
I135578		<0.01	<10	<10	10	<10	60				1.93
I135579		<0.01	<10	<10	23	<10	41				2.08
I135580		<0.01	<10	<10	12	<10	26				1.98
I135581		<0.01	<10	<10	17	<10	59				2.25
I135582D		<0.01	<10	<10	17	<10	57				<0.02
I135583		<0.01	<10	<10	9	<10	49				2.09



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		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
1135584		0.789	70.0	0.73	49	<10	<10	<0.5	46	0.94	76.0	119	31	>10000	32.0	10
1135585		0.010	0.5	0.23	11	<10	30	<0.5	<2	7.71	<0.5	24	3	44	4.76	<10
1135586		<0.005	<0.2	1.04	5	<10	20	<0.5	<2	2.79	<0.5	3	2	29	3.25	<10
1135587		0.005	<0.2	1.34	4	<10	10	<0.5	<2	1.19	<0.5	2	2	19	2.62	<10
1135588		<0.005	<0.2	1.16	3	<10	<10	<0.5	<2	1.28	<0.5	2	1	16	2.28	<10
1135589		<0.005	<0.2	0.04	<2	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	1	0.07	<10
1135590		<0.005	<0.2	0.87	2	<10	<10	<0.5	<2	2.47	<0.5	1	1	21	2.51	<10
1135591		<0.005	<0.2	0.36	10	<10	<10	<0.5	<2	1.20	<0.5	2	1	62	2.34	<10
1135592		<0.005	<0.2	0.38	3	<10	10	<0.5	<2	1.76	<0.5	2	1	19	2.27	<10
1135593D		<0.005	<0.2	0.36	4	<10	10	<0.5	<2	1.73	<0.5	2	1	20	2.12	<10
1135594		<0.005	<0.2	0.32	3	<10	<10	<0.5	<2	1.95	<0.5	2	2	86	2.46	<10
1135595		0.005	<0.2	0.56	2	<10	<10	<0.5	<2	1.51	<0.5	2	1	19	2.29	<10
1135596		<0.005	<0.2	1.32	<2	<10	20	<0.5	<2	1.40	<0.5	2	1	23	2.55	<10
1135597		<0.005	<0.2	1.59	<2	<10	10	<0.5	<2	0.84	<0.5	2	1	28	2.43	<10
1135598		0.008	<0.2	0.34	9	<10	20	<0.5	<2	0.20	16.3	69	2	112	8.95	<10
1135599		0.923	75.5	0.73	48	<10	10	<0.5	57	0.89	76.7	121	32	>10000	32.8	<10
1135600		0.011	0.3	0.27	6	<10	20	<0.5	<2	0.33	11.6	75	2	172	8.86	<10
1135601		0.009	0.2	0.72	4	<10	30	<0.5	<2	0.48	<0.5	15	4	58	5.82	<10
1135602		0.015	0.5	0.50	9	<10	30	<0.5	2	1.13	4.3	15	2	45	6.07	<10
1135603		0.010	0.5	0.37	11	<10	20	<0.5	<2	0.56	38.1	14	3	204	4.44	<10
1135604		0.007	0.4	0.25	4	<10	30	<0.5	<2	1.08	9.9	23	3	98	5.36	<10
1135605D		0.007	0.3	0.28	4	<10	30	<0.5	<2	1.24	11.9	26	3	133	5.78	<10
1135606		<0.005	<0.2	1.02	<2	<10	40	<0.5	<2	1.07	<0.5	5	1	29	1.86	<10
1135607		<0.005	<0.2	0.69	2	<10	40	<0.5	<2	0.35	<0.5	14	3	13	3.71	<10
1135608		<0.005	<0.2	0.25	<2	<10	40	<0.5	<2	0.59	<0.5	7	3	8	2.76	<10
1135609		<0.005	<0.2	0.37	3	<10	40	<0.5	<2	0.65	<0.5	7	2	27	2.83	<10
1135610D		<0.005	<0.2	0.32	<2	<10	40	<0.5	<2	0.50	<0.5	3	2	15	1.88	<10
1135611		<0.005	<0.2	0.32	<2	<10	30	<0.5	<2	0.49	<0.5	3	2	6	1.44	<10
1135612		<0.005	<0.2	0.29	3	<10	40	<0.5	<2	0.30	<0.5	7	2	4	2.53	<10
1135613		<0.005	<0.2	0.56	<2	<10	60	<0.5	<2	0.23	<0.5	4	2	4	1.60	<10
1135614		<0.005	<0.2	1.02	<2	<10	40	<0.5	<2	0.66	<0.5	4	1	3	1.60	<10
1135615		0.008	<0.2	1.45	4	<10	30	<0.5	<2	1.07	<0.5	6	2	8	2.31	<10
1135616		<0.005	<0.2	0.74	<2	<10	30	<0.5	<2	2.45	<0.5	4	1	15	2.29	<10
1135617		0.010	<0.2	0.05	<2	<10	10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.08	<10
1135618		0.007	0.2	0.27	10	<10	20	<0.5	<2	2.46	<0.5	9	1	71	5.24	<10
1135619		0.015	0.5	0.18	15	<10	20	<0.5	<2	2.41	<0.5	7	2	144	4.36	<10
1135620		0.014	0.4	0.29	19	<10	30	<0.5	<2	0.90	<0.5	11	2	61	6.15	<10
1135621		0.015	0.8	0.45	19	<10	30	<0.5	2	0.38	<0.5	9	1	79	3.65	<10
1135622		<0.005	<0.2	1.58	5	<10	30	<0.5	<2	1.53	<0.5	8	2	26	2.67	<10
1135623		0.007	<0.2	1.49	4	<10	20	<0.5	<2	2.27	<0.5	24	2	19	4.14	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I135584		1	0.08	<10	1.18	581	10	0.02	9	70	2800	>10.0	7	1	3	<20
I135585		<1	0.07	<10	0.96	1485	1	0.07	18	220	10	4.49	<2	4	79	<20
I135586		<1	0.07	<10	1.85	474	3	0.05	7	170	5	1.25	<2	5	21	<20
I135587		<1	0.04	<10	1.52	239	1	0.08	4	260	3	0.65	<2	4	12	<20
I135588		<1	0.03	<10	1.50	246	1	0.06	3	180	2	0.67	<2	4	10	<20
I135589		<1	<0.01	<10	1.50	54	<1	0.01	<1	50	<2	0.11	<2	<1	5730	30
I135590		<1	0.02	<10	1.95	387	<1	0.06	2	350	2	0.65	<2	5	16	<20
I135591		<1	0.03	<10	1.54	234	1	0.06	9	160	4	1.22	<2	4	10	<20
I135592		<1	0.04	<10	1.88	330	1	0.09	4	330	2	1.11	<2	4	16	<20
I135593D		<1	0.04	<10	1.66	311	1	0.08	5	410	3	1.09	<2	4	15	<20
I135594		<1	0.03	<10	2.07	416	<1	0.07	4	186	3	0.59	<2	4	14	<20
I135595		<1	0.03	<10	1.45	421	<1	0.06	2	250	<2	0.44	<2	4	9	<20
I135596		<1	0.04	<10	1.62	615	1	0.09	7	200	5	0.55	<2	4	7	<20
I135597		<1	0.03	<10	1.83	517	<1	0.08	4	220	3	0.55	<2	4	6	<20
I135598		1	0.07	<10	0.33	119	18	0.04	<1	130	2	>10.0	2	1	3	<20
I135599		1	0.08	<10	1.17	574	10	0.02	8	80	2780	>10.0	7	1	2	<20
I135600		<1	0.08	<10	0.30	162	20	0.03	<1	100	3	>10.0	<2	1	4	<20
I135601		<1	0.07	<10	0.85	254	9	0.04	<1	230	11	6.18	<2	1	5	<20
I135602		<1	0.09	<10	0.93	444	20	0.04	<1	170	5	6.64	<2	1	5	<20
I135603		1	0.09	<10	0.45	241	24	0.03	1	180	5	4.43	2	1	3	<20
I135604		<1	0.09	<10	0.63	388	15	0.03	<1	90	2	5.49	<2	1	5	<20
I135605D		<1	0.10	<10	0.71	470	15	0.04	<1	90	2	6.14	<2	1	5	<20
I135606		<1	0.10	<10	1.60	420	10	0.03	<1	130	2	0.63	<2	2	7	<20
I135607		<1	0.12	<10	0.94	192	16	0.03	<1	110	<2	2.92	<2	1	4	<20
I135608		<1	0.11	<10	0.82	235	9	0.03	<1	100	2	2.27	<2	1	4	<20
I135609		<1	0.13	<10	1.36	261	8	0.04	<1	130	<2	1.52	<2	2	4	<20
I135610D		<1	0.11	<10	1.26	211	5	0.04	<1	150	<2	0.42	<2	1	4	<20
I135611		<1	0.11	<10	1.18	201	4	0.03	1	100	<2	0.19	<2	1	3	<20
I135612		<1	0.11	<10	0.91	125	7	0.03	1	140	<2	1.73	<2	1	4	<20
I135613		<1	0.11	<10	1.25	138	10	0.03	1	120	<2	0.42	<2	1	3	<20
I135614		<1	0.10	<10	1.59	246	7	0.03	1	160	<2	0.40	<2	2	4	<20
I135615		1	0.08	<10	2.41	360	6	0.03	1	100	2	0.50	<2	2	7	<20
I135616		<1	0.07	<10	3.16	615	4	0.05	<1	90	<2	0.24	<2	3	11	<20
I135617		<1	0.01	<10	2.42	40	<1	0.03	<1	70	<2	0.07	<2	<1	5370	20
I135618		<1	0.09	<10	1.67	505	9	0.05	<1	120	2	4.94	<2	2	12	<20
I135619		<1	0.08	<10	1.30	431	11	0.03	<1	210	3	4.64	<2	1	8	<20
I135620		<1	0.11	<10	0.83	212	20	0.04	<1	100	5	6.53	<2	1	5	<20
I135621		<1	0.11	<10	0.56	116	28	0.03	1	30	5	3.44	<2	1	2	<20
I135622		<1	0.09	<10	2.38	504	16	0.04	<1	130	<2	1.10	<2	2	7	<20
I135623		<1	0.06	<10	2.55	666	14	0.06	<1	170	<2	2.70	<2	3	9	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46	WEI- 21
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001	Zn % 0.001	Recvd Wt. kg 0.02
1135584		0.01	<10	<10	8	10	>10000	65	1.495	3.11	0.13
1135585		<0.01	<10	<10	5	<10	47				2.14
1135586		<0.01	<10	<10	9	<10	148				1.89
1135587		<0.01	<10	<10	9	<10	140				2.07
1135588		<0.01	<10	<10	6	<10	100				2.25
1135589		<0.01	<10	10	<1	<10	5				0.20
1135590		<0.01	<10	<10	8	<10	100				1.55
1135591		<0.01	<10	<10	7	<10	157				1.58
1135592		<0.01	<10	<10	6	<10	211				1.78
1135593D		<0.01	<10	<10	6	<10	208				<0.02
1135594		<0.01	<10	<10	5	<10	167				1.76
1135595		<0.01	<10	<10	4	<10	109				1.97
1135596		<0.01	<10	<10	4	<10	137				1.87
1135597		<0.01	<10	<10	5	<10	206				1.01
1135598		<0.01	<10	<10	1	<10	2220				1.34
1135599		0.01	10	<10	9	10	>10000	62	1.455	2.99	0.13
1135600		<0.01	<10	<10	2	<10	1060				1.67
1135601		<0.01	<10	<10	5	<10	173				1.96
1135602		<0.01	<10	<10	1	<10	535				2.08
1135603		<0.01	<10	<10	1	<10	4770	1	0.033	0.509	1.78
1135604		<0.01	<10	<10	1	<10	1015				1.80
1135605D		<0.01	<10	<10	1	<10	1230				<0.02
1135606		<0.01	<10	<10	1	<10	254				1.98
1135607		<0.01	<10	<10	1	<10	112				1.87
1135608		<0.01	<10	<10	1	<10	73				1.83
1135609		<0.01	<10	<10	2	<10	175				1.72
1135610D		<0.01	<10	<10	2	<10	173				<0.02
1135611		<0.01	<10	<10	1	<10	150				1.96
1135612		<0.01	<10	<10	1	<10	108				2.16
1135613		<0.01	<10	<10	1	<10	102				2.01
1135614		<0.01	<10	<10	1	<10	83				1.52
1135615		<0.01	<10	<10	2	<10	161				2.11
1135616		<0.01	<10	<10	3	<10	144				2.31
1135617		<0.01	<10	<10	<1	<10	<2				0.24
1135618		<0.01	<10	<10	1	<10	65				2.21
1135619		<0.01	<10	<10	1	<10	13				2.22
1135620		<0.01	<10	<10	1	<10	41				2.28
1135621		<0.01	<10	<10	1	<10	32				2.37
1135622		<0.01	<10	<10	2	<10	91				2.30
1135623		<0.01	<10	<10	3	<10	68				2.37



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Sample Description	Method Analyte Units LOR	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Au ppm 0.005	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
1135624		0.008	<0.2	1.21	5	<10	20	<0.5	<2	3.05	<0.5	16	2	23	4.69	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
1135624		<1	0.04	<10	2.71	740	4	0.05	<1	90	2	3.64	<2	3	11	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46	WEI- 21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	Zn %	Recvd Wt. kg
I135624		<0.01	<10	<10	3	<10	59		0.001	0.001	2.27



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CERTIFICATE TR11171626

Project: KCC- 2011- 014
 P.O. No.: 114694
 This report is for 25 Drill Core samples submitted to our lab in Terrace, BC, Canada on 29- AUG- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 BRAD MERCER
 BRIAN WILLET

MARISSA LOE
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 DANIEL NG

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE

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 ATTN: MARISSA LOE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11171626

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
I135718		1.68	1.0	0.30	14	<10	50	<0.5	<2	1.92	2.3	4	2	585	1.61	<10
I135719		2.44	9.1	0.48	20	<10	30	<0.5	2	1.98	411	1	1	>10000	10.45	<10
I135720		2.27	34.5	0.11	23	<10	20	<0.5	<2	5.53	739	<1	<1	>10000	19.0	<10
I135721D		<0.02	34.6	0.10	28	<10	20	<0.5	<2	5.48	752	<1	<1	>10000	18.0	<10
I135722		2.02	31.4	0.11	54	<10	20	<0.5	<2	8.2	221	<1	<1	>10000	19.8	<10
I135723		0.13	>100	1.24	40	<10	10	<0.5	120	0.33	58.7	145	24	>10000	28.2	10
I135724		1.99	23.3	0.09	35	<10	10	<0.5	<2	9.0	70.6	<1	<1	>10000	18.6	<10
I135725		2.14	11.4	0.30	59	<10	20	<0.5	<2	4.22	711	<1	<1	6520	15.5	10
I135726		2.61	17.8	0.14	78	<10	20	<0.5	<2	3.62	299	<1	<1	>10000	22.0	<10
I135727		1.95	24.4	0.09	106	<10	10	<0.5	<2	5.87	385	<1	<1	>10000	20.9	<10
I135728		2.23	>100	0.05	24	<10	10	<0.5	<2	9.0	>1000	<1	1	>10000	4.04	10
I135729		2.03	>100	0.04	113	<10	<10	<0.5	29	7.5	>1000	<1	<1	>10000	6.51	<10
I135730		2.22	>100	0.03	329	<10	<10	<0.5	41	6.04	998	<1	<1	>10000	13.00	10
I135731D		<0.02	>100	0.03	324	<10	<10	<0.5	33	5.54	912	<1	<1	>10000	13.30	10
I135732		2.31	96.9	0.06	231	<10	10	<0.5	21	5.39	877	<1	<1	>10000	16.8	<10
I135733		1.88	22.2	0.13	118	<10	10	<0.5	15	5.63	419	<1	<1	>10000	19.4	<10
I135734		0.13	66.6	0.70	55	<10	10	<0.5	45	0.90	72.9	117	30	>10000	30.4	10
I135735		1.17	2.5	0.64	23	<10	20	<0.5	21	0.98	25.9	2	1	5320	8.08	<10
I135736		1.53	1.4	0.73	12	<10	30	<0.5	3	0.07	18.7	2	3	396	5.03	<10
I135737		1.61	2.1	1.13	13	<10	30	<0.5	<2	0.06	17.3	3	2	406	6.46	<10
I135738		1.59	1.2	1.28	19	<10	40	<0.5	<2	0.07	4.2	2	2	177	4.06	<10
I135739		1.55	1.1	1.50	15	<10	30	<0.5	<2	0.06	1.9	3	2	80	3.58	<10
I135740		0.14	<0.2	0.05	5	<10	<10	<0.5	<2	>25.0	<0.5	2	1	11	0.06	<10
I135741		1.60	0.5	1.56	12	<10	30	<0.5	<2	0.13	<0.5	3	2	33	3.67	<10
I135742		1.75	0.6	1.54	10	<10	20	<0.5	<2	0.09	<0.5	3	2	31	4.49	<10

Comments: Additional Au- AA23 check assay for sample I135731D reports .827 ppm.



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Project: KCC- 2011- 014

CERTIFICATE OF ANALYSIS TR11171626

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
I135718		<1	0.08	<10	2.55	618	21	0.04	1	110	33	1.09	<2	2	35	<20
I135719		6	0.07	<10	1.98	602	23	0.02	11	110	68	>10.0	5	1	26	<20
I135720		11	0.05	<10	2.91	1800	23	0.02	27	1280	49	>10.0	4	1	88	<20
I135721D		11	0.05	<10	2.98	1790	27	0.02	25	1310	47	>10.0	3	1	66	<20
I135722		3	0.04	<10	5.24	2940	18	0.02	8	1620	105	>10.0	2	2	104	<20
I135723		1	0.05	<10	1.44	369	9	0.01	8	90	1520	>10.0	7	2	1	<20
I135724		1	0.03	<10	6.34	4070	14	0.02	8	1280	42	>10.0	<2	3	104	<20
I135725		10	0.04	<10	3.33	1555	26	0.03	14	780	74	>10.0	9	2	64	<20
I135726		7	0.06	<10	2.07	1145	9	0.03	10	530	133	>10.0	2	1	37	<20
I135727		6	0.04	<10	3.93	2750	25	0.02	16	660	177	>10.0	10	1	46	<20
I135728		20	0.02	<10	5.08	2870	46	0.02	3	540	482	9.91	10	<1	58	<20
I135729		20	0.01	<10	4.24	2130	31	0.01	5	1090	1140	>10.0	22	<1	45	<20
I135730		18	0.01	<10	2.94	1765	38	0.01	9	560	2620	>10.0	39	<1	41	<20
I135731D		16	0.01	<10	2.77	1630	36	0.01	9	560	2870	>10.0	38	<1	40	<20
I135732		14	0.02	<10	2.89	1745	47	0.02	15	1190	2260	>10.0	27	<1	38	<20
I135733		8	0.03	<10	3.65	1575	45	0.02	9	1590	113	>10.0	10	2	49	<20
I135734		2	0.07	<10	1.12	550	9	0.01	5	80	2660	>10.0	7	1	1	<20
I135735		1	0.06	<10	4.02	537	14	0.03	<1	120	95	9.51	2	3	15	<20
I135736		<1	0.06	<10	3.09	226	8	0.03	<1	110	58	5.03	<2	2	9	<20
I135737		1	0.07	<10	2.43	214	11	0.02	<1	150	174	7.29	<2	1	5	<20
I135738		<1	0.07	<10	2.11	227	7	0.02	<1	150	87	3.97	<2	1	6	<20
I135739		<1	0.06	<10	2.33	237	7	0.02	<1	150	76	3.29	2	2	4	<20
I135740		<1	<0.01	<10	2.47	50	<1	0.02	<1	60	5	0.08	<2	<1	4160	20
I135741		1	0.07	<10	2.25	269	5	0.02	<1	160	12	3.33	<2	1	10	<20
I135742		<1	0.06	<10	2.12	260	8	0.02	<1	160	10	4.43	<2	1	5	<20

Comments: Additional Au- AA23 check assay for sample I135731D reports .827 ppm.



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Project: KCC- 2011- 014

CERTIFICATE OF ANALYSIS TR11171626

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Cu- OG46	Zn- OG46	Au- AA23	Au- GRA21
		Ti	Ti	U	V	W	Zn	Ag	Cu	Zn	Au	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
I135718		<0.01	<10	<10	7	<10	692				0.022	
I135719		<0.01	<10	<10	12	<10	>10000		1.270	8.23	0.096	
I135720		<0.01	<10	10	6	<10	>10000		2.01	14.50	0.195	
I135721D		<0.01	<10	10	6	10	>10000		2.05	14.80	0.212	
I135722		<0.01	<10	<10	6	<10	>10000		2.89	4.27	0.214	
I135723		0.01	10	<10	8	<10	>10000	107	4.95	2.27	1.680	
I135724		<0.01	<10	<10	6	10	>10000		2.57	1.445	0.145	
I135725		<0.01	<10	10	16	<10	>10000		0.658	15.15	0.159	
I135726		<0.01	<10	10	5	10	>10000		1.580	6.29	0.537	
I135727		<0.01	<10	<10	10	<10	>10000		2.18	7.56	0.466	
I135728		<0.01	<10	<10	31	40	>10000	609	1.575	23.5	>10.0	160.0
I135729		<0.01	<10	10	22	20	>10000	420	4.35	22.5	0.649	
I135730		<0.01	<10	<10	24	10	>10000	221	5.45	18.25	1.435	
I135731D		<0.01	<10	<10	24	10	>10000	228	5.78	17.90	1.765	
I135732		<0.01	<10	10	24	<10	>10000		3.60	16.75	0.646	
I135733		<0.01	<10	10	14	10	>10000		6.13	8.88	0.730	
I135734		0.01	10	<10	8	10	>10000		1.580	3.09	0.873	
I135735		<0.01	<10	<10	6	<10	5330		0.537	0.575	0.133	
I135736		<0.01	<10	<10	4	<10	4030			0.438	0.026	
I135737		<0.01	<10	<10	3	<10	3850			0.383	0.034	
I135738		<0.01	<10	<10	3	<10	871				0.024	
I135739		<0.01	<10	<10	3	<10	523				0.013	
I135740		<0.01	<10	10	2	<10	45				<0.005	
I135741		<0.01	<10	<10	3	<10	230				0.012	
I135742		<0.01	<10	<10	3	<10	193				0.014	

Comments: Additional Au- AA23 check assay for sample I135731D reports .827 ppm.



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CERTIFICATE TR11176899

Project: KCC- 2011- 017
 P.O. No.: 114694
 This report is for 16 Drill Core samples submitted to our lab in Terrace, BC, Canada on 2- SEP- 2011.
 The following have access to data associated with this certificate:

DANI ALLDRICK BRAD MERCER BRIAN WILLET	MARISSA LOE TARAS NAHNYBIDA	VIVIENNE MCLENNAN DANIEL NG
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SAMPLE PREPARATION

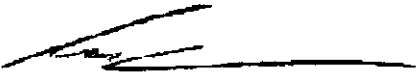
ALS CODE	DESCRIPTION
LOG- 22	Sample login - Rcd w/o BarCode
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 22d	Sample login - Rcd w/o BarCode dup

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: KCC- 2011- 017

CERTIFICATE OF ANALYSIS TR11176899

Sample Description	Method Analyte Units LOR	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
I135765		0.163	10.6	0.04	201	<10	<10	<0.5	28	5.11	41.4	<1	<1	7880	23.7	<10
I135766		0.125	8.6	0.04	241	<10	<10	<0.5	23	4.42	49.2	<1	1	7460	22.6	<10
I135767		<0.005	<0.2	0.05	5	<10	10	<0.5	<2	>25.0	0.6	<1	1	71	0.28	<10
I135768		<0.005	15.1	0.07	425	<10	10	<0.5	45	2.42	142.0	93	<1	>10000	23.0	10
I135769		0.321	44.3	0.04	385	<10	<10	<0.5	37	4.76	177.5	143	<1	>10000	23.5	10
I135770		0.759	54.5	0.05	277	<10	<10	<0.5	66	4.42	19.6	179	<1	>10000	23.1	<10
I135771D		0.723	54.2	0.05	283	<10	<10	<0.5	64	4.73	20.8	191	<1	>10000	24.4	<10
I135772		0.100	6.5	0.13	184	<10	10	<0.5	16	0.37	5.7	92	<1	4230	24.0	<10
I135773		0.033	2.0	0.20	16	<10	10	<0.5	7	0.41	8.7	90	2	1320	20.6	<10
I135774		0.016	0.5	0.20	7	<10	20	<0.5	<2	0.04	<0.5	98	2	50	15.0	<10
I135775		0.011	0.5	0.20	8	<10	20	<0.5	<2	0.03	0.5	42	3	38	12.30	<10
I135776		<0.005	0.4	0.20	6	<10	20	<0.5	<2	0.02	<0.5	23	4	26	8.27	<10
I135777		0.016	0.4	0.21	7	<10	20	<0.5	<2	0.07	<0.5	48	3	30	10.75	<10
I135778		0.009	<0.2	0.20	4	<10	10	<0.5	<2	0.10	<0.5	43	2	34	20.3	<10
I135779		<0.005	0.7	0.22	19	<10	20	<0.5	3	0.05	<0.5	32	3	40	10.40	<10
I135780		0.018	0.5	0.21	17	<10	20	<0.5	3	0.17	<0.5	27	3	303	11.45	<10



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CERTIFICATE OF ANALYSIS TR11176899

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
I135765		3	<0.01	<10	3.88	2440	9	0.02	6	180	361	>10.0	7	<1	26	<20
I135766		4	<0.01	<10	2.98	2090	8	0.01	7	70	441	>10.0	6	<1	21	<20
I135767		<1	0.01	<10	1.71	76	1	0.01	2	50	5	0.45	2	<1	5620	20
I135768		6	0.02	<10	1.26	1290	9	0.02	<1	100	375	>10.0	14	1	22	<20
I135769		9	<0.01	<10	3.03	2270	23	0.02	1	190	212	>10.0	16	1	34	<20
I135770		2	0.01	<10	2.82	1565	16	0.01	1	280	127	>10.0	2	1	20	<20
I135771D		2	<0.01	<10	2.98	1640	18	0.01	<1	280	134	>10.0	4	1	22	<20
I135772		<1	0.07	<10	0.19	104	12	0.02	<1	60	41	>10.0	17	1	4	<20
I135773		1	0.08	<10	0.46	189	18	0.03	<1	10	6	>10.0	<2	1	5	<20
I135774		<1	0.09	<10	0.02	30	27	0.03	<1	10	3	>10.0	<2	<1	4	<20
I135775		<1	0.08	<10	0.02	29	22	0.02	<1	10	3	>10.0	<2	<1	4	<20
I135776		<1	0.08	<10	0.01	30	19	0.02	<1	<10	4	>10.0	<2	<1	4	<20
I135777		<1	0.09	<10	0.04	45	18	0.02	<1	20	<2	>10.0	<2	1	4	<20
I135778		<1	0.09	<10	0.04	34	28	0.02	<1	20	4	>10.0	<2	1	4	<20
I135779		<1	0.09	<10	0.03	31	29	0.02	<1	20	5	>10.0	<2	1	4	<20
I135780		<1	0.09	<10	0.07	68	25	0.02	<1	10	5	>10.0	<2	1	4	<20



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Project: KCC- 2011- 017

CERTIFICATE OF ANALYSIS TR11176899

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46
		Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	Zn %
		0.01	10	10	1	10	2	1	0.001	0.001
1135765		<0.01	<10	<10	18	10	>10000	10	0.708	1.500
1135766		<0.01	<10	<10	18	20	>10000	8	0.683	1.690
1135767		<0.01	<10	<10	<1	<10	212			
1135768		<0.01	<10	10	11	20	>10000	15	1.020	2.91
1135769		<0.01	10	10	13	20	>10000	41	3.02	3.05
1135770		<0.01	<10	10	7	<10	3460	58	3.72	0.369
1135771D		<0.01	<10	<10	7	<10	3730	54	3.49	0.375
1135772		<0.01	<10	<10	2	<10	877	6	0.376	0.089
1135773		<0.01	<10	<10	2	<10	1835			
1135774		<0.01	<10	<10	1	<10	177			
1135775		<0.01	<10	<10	1	<10	323			
1135776		<0.01	<10	<10	1	<10	37			
1135777		<0.01	<10	<10	1	<10	31			
1135778		<0.01	<10	<10	1	<10	40			
1135779		<0.01	<10	<10	1	<10	23			
1135780		<0.01	<10	<10	1	<10	118			



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CERTIFICATE TR11176940

Project: KCC- 2011- 015
 P.O. No.: 114694
 This report is for 45 Drill Core samples submitted to our lab in Terrace, BC, Canada on 2- SEP- 2011.
 The following have access to data associated with this certificate:

DANI ALLDRICK BRAD MERCER BRIAN WILLET	MARISSA LOE TARAS NAHNYBIDA	VIVIENNE MCLENNAN DANIEL NG
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
WEI- 21	Received Sample Weight
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 22d	Sample login - Rcd w/o BarCode dup

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS

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 999 WEST HASTINGS STREET, SUITE 900
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11176940

Sample Description	Method Analyte Units LOR	Au- AA23 Au ppm	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
I135625		0.005	2.37	<0.2	1.16	3	<10	30	<0.5	<2	0.09	<0.5	3	1	6	1.79
I135626		0.005	2.29	0.2	0.64	4	<10	30	<0.5	<2	0.09	<0.5	2	1	20	2.03
I135627		0.010	2.48	0.4	0.28	5	<10	30	<0.5	<2	0.12	0.5	2	2	106	3.10
I135628		0.008	2.32	<0.2	0.20	3	<10	20	<0.5	<2	0.07	<0.5	2	1	54	2.08
I135629		0.009	2.36	<0.2	0.26	3	<10	20	<0.5	2	0.10	<0.5	2	1	34	2.83
I135630		0.030	2.17	0.9	0.24	7	<10	20	<0.5	2	0.13	3.1	1	1	405	4.13
I135631		0.115	2.33	3.3	0.20	12	<10	10	<0.5	2	0.09	15.5	1	2	1715	4.94
I135632		0.092	1.21	2.5	0.15	7	<10	10	<0.5	2	0.09	1.8	1	1	1320	5.50
I135633D		0.091	<0.02	2.5	0.18	11	<10	10	<0.5	3	0.10	1.5	1	2	1360	5.38
I135634		0.052	2.51	1.4	0.21	6	<10	10	<0.5	2	0.12	4.5	1	2	1025	5.47
I135635		0.788	0.13	78.1	0.79	49	<10	20	<0.5	44	0.97	80.2	110	34	>10000	31.4
I135636		0.078	1.68	2.7	0.18	8	<10	10	<0.5	<2	0.12	27.8	1	2	1865	4.58
I135637		0.032	1.49	1.7	0.19	15	<10	20	<0.5	2	0.06	0.9	1	2	803	4.80
I135638		<0.005	0.15	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	9	0.08
I135639		0.127	1.44	2.8	0.23	18	<10	20	<0.5	3	0.15	<0.5	3	2	1750	8.25
I135640		0.009	1.69	<0.2	0.66	4	<10	40	<0.5	2	0.09	<0.5	2	2	33	1.90
I135641		0.007	1.55	0.5	1.09	5	<10	10	<0.5	2	0.12	<0.5	2	2	245	2.05
I135642		0.005	2.02	0.2	0.80	4	<10	40	<0.5	<2	0.08	<0.5	2	1	38	1.84
I135643		0.011	2.28	0.4	0.27	9	<10	20	<0.5	2	0.17	<0.5	1	1	117	2.09
I135644		0.061	1.29	3.3	0.17	18	<10	20	<0.5	<2	0.17	20.4	2	1	980	3.87
I135645D		0.085	<0.02	3.5	0.19	17	<10	20	<0.5	<2	0.16	19.9	2	1	964	3.73
I135646		0.034	1.39	2.7	0.18	31	<10	10	<0.5	2	0.08	4.6	1	1	573	4.56
I135647		0.016	1.43	1.1	0.25	24	<10	20	<0.5	2	0.08	0.9	1	2	170	3.68
I135648		0.009	1.88	0.4	0.51	13	<10	10	<0.5	<2	0.08	<0.5	2	1	59	2.21
I135649		0.011	1.44	0.6	1.02	28	<10	10	<0.5	<2	0.09	<0.5	1	1	107	1.88
I135650		0.006	1.97	0.2	0.76	22	<10	10	<0.5	<2	0.07	<0.5	1	1	14	1.70
I135651		0.008	2.34	0.3	0.50	20	<10	20	<0.5	<2	0.08	<0.5	2	1	23	5.33
I135652		<0.005	0.16	<0.2	0.05	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	<1	0.04
I135653		0.013	2.26	1.4	1.04	12	<10	20	<0.5	4	0.22	<0.5	13	28	163	8.81
I135654D		0.014	<0.02	1.0	1.00	10	<10	20	<0.5	4	0.17	<0.5	12	26	164	8.40
I135655		0.023	2.60	1.0	2.85	4	<10	10	<0.5	7	0.15	<0.5	59	108	144	12.10
I135656		1.880	0.13	>100	1.30	37	<10	10	<0.5	115	0.32	58.2	138	26	>10000	28.7
I135657		0.021	2.61	0.9	2.14	30	<10	10	<0.5	5	0.22	4.1	54	88	77	10.85
I135658		0.038	2.58	1.1	2.55	23	<10	20	<0.5	3	0.26	37.0	41	112	127	12.70
I135659D		0.038	<0.02	1.4	2.61	24	<10	20	<0.5	4	0.26	45.3	41	116	119	12.85
I135660		0.007	2.56	0.3	4.22	8	<10	10	<0.5	4	0.18	<0.5	41	131	144	9.27
I135661		0.012	2.72	0.2	4.86	18	<10	<10	<0.5	4	0.22	<0.5	112	156	85	16.5
I135662		0.005	2.46	<0.2	5.59	3	<10	<10	<0.5	2	0.14	<0.5	64	363	41	10.40
I135663		0.005	2.33	0.2	5.16	6	<10	<10	<0.5	3	0.38	<0.5	80	442	239	9.97
I135664		<0.005	2.60	<0.2	5.10	10	<10	10	<0.5	3	0.13	<0.5	54	223	41	10.65



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
I135625		<10	<1	0.10	<10	2.16	869	<1	0.03	<1	200	<2	0.50	<2	2	3
I135626		<10	<1	0.10	<10	2.53	1270	<1	0.03	2	180	5	0.63	<2	2	2
I135627		<10	<1	0.10	<10	1.67	484	<1	0.03	<1	170	3	2.49	<2	2	2
I135628		<10	<1	0.07	<10	2.05	627	<1	0.02	<1	170	<2	1.29	<2	2	2
I135629		<10	<1	0.11	<10	1.74	528	<1	0.05	<1	160	2	2.38	<2	2	3
I135630		<10	<1	0.11	<10	0.44	152	1	0.05	<1	350	13	4.43	<2	1	4
I135631		<10	<1	0.10	<10	0.06	40	2	0.04	1	120	7	5.77	<2	1	3
I135632		<10	<1	0.08	<10	0.06	42	2	0.04	2	150	7	6.29	<2	1	3
I135633D		<10	<1	0.09	<10	0.06	43	2	0.04	3	160	5	6.19	<2	1	3
I135634		<10	<1	0.09	<10	1.02	222	<1	0.04	<1	160	4	6.22	<2	1	3
I135635		10	1	0.09	<10	1.18	597	7	0.04	10	80	2930	>10.0	2	1	<1
I135636		<10	1	0.10	<10	0.25	90	<1	0.04	<1	220	14	5.24	<2	1	3
I135637		<10	<1	0.09	<10	0.05	27	1	0.05	<1	130	8	5.23	<2	1	3
I135638		<10	1	<0.01	<10	1.83	46	<1	0.03	<1	40	<2	0.14	<2	1	4980
I135639		<10	<1	0.09	<10	0.96	161	1	0.04	<1	150	8	9.81	<2	1	7
I135640		<10	<1	0.10	<10	2.77	450	<1	0.06	<1	180	3	1.20	<2	2	6
I135641		<10	<1	0.07	<10	2.20	869	<1	0.05	<1	200	2	1.49	<2	2	6
I135642		<10	<1	0.07	<10	2.05	689	<1	0.05	<1	180	3	1.26	<2	2	5
I135643		<10	<1	0.07	<10	3.34	903	1	0.05	<1	250	4	1.34	<2	2	6
I135644		<10	1	0.07	<10	0.40	142	5	0.05	2	260	12	4.13	3	1	4
I135645D		<10	1	0.08	<10	0.40	134	5	0.05	2	260	14	4.19	<2	1	4
I135646		<10	<1	0.07	<10	0.82	201	3	0.04	<1	210	114	4.96	4	1	4
I135647		<10	<1	0.08	<10	1.20	270	3	0.04	<1	270	58	3.89	3	1	4
I135648		<10	<1	0.07	<10	1.42	263	1	0.05	1	290	2	2.15	<2	1	5
I135649		<10	<1	0.05	<10	1.64	369	<1	0.06	<1	310	3	1.72	<2	2	7
I135650		<10	<1	0.06	<10	1.01	200	<1	0.07	<1	270	3	1.65	<2	1	5
I135651		<10	<1	0.08	<10	0.64	160	<1	0.05	<1	260	3	6.06	<2	1	4
I135652		<10	<1	<0.01	<10	1.74	21	<1	0.04	<1	40	<2	0.16	<2	1	6300
I135653		<10	<1	0.08	<10	1.43	361	9	0.04	19	400	5	>10.0	<2	2	14
I135654D		<10	1	0.07	<10	1.39	362	11	0.04	20	410	5	0.83	<2	2	6
I135655		10	1	0.02	<10	3.98	890	10	0.03	54	440	3	>10.0	<2	11	5
I135656		10	1	0.06	<10	1.44	361	4	0.03	3	80	1480	>10.0	3	2	<1
I135657		<10	<1	0.02	<10	3.78	795	7	0.01	55	420	6	>10.0	3	8	4
I135658		10	<1	0.04	<10	3.17	839	15	0.04	62	660	4	>10.0	<2	6	5
I135659D		10	<1	0.05	<10	3.18	801	14	0.04	64	650	4	>10.0	<2	7	5
I135660		10	<1	0.02	<10	4.94	1670	<1	0.03	46	430	<2	5.22	<2	15	3
I135661		10	<1	0.01	<10	5.26	1910	<1	0.03	53	490	3	>10.0	<2	19	2
I135662		10	<1	<0.01	<10	6.18	1795	<1	0.03	128	340	<2	4.94	<2	25	2
I135663		10	<1	<0.01	<10	0.39	1885	<1	0.02	180	330	<2	4.89	<2	25	3
I135664		10	<1	0.02	<10	5.43	1580	<1	0.02	82	420	<2	6.29	<2	19	1



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46
		Th ppm 20	Tl % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001	Zn % 0.001
I135625		<20	<0.01	<10	<10	2	<10	448			
I135626		<20	<0.01	<10	<10	2	<10	669			
I135627		<20	<0.01	<10	<10	1	<10	591			
I135628		<20	<0.01	<10	<10	1	<10	560			
I135629		<20	<0.01	<10	<10	1	<10	559			
I135630		<20	<0.01	<10	<10	1	<10	601			
I135631		<20	<0.01	<10	<10	1	10	2580	3	0.171	0.236
I135632		<20	<0.01	<10	<10	1	<10	351			
I135633D		<20	<0.01	<10	<10	1	<10	290			
I135634		<20	<0.01	<10	<10	1	<10	1120			
I135635		<20	0.01	10	<10	11	40	>10000	64	1.510	3.00
I135636		<20	<0.01	<10	<10	<1	20	5650	2	0.157	0.519
I135637		<20	<0.01	<10	<10	<1	<10	209			
I135638		30	<0.01	<10	<10	1	<10	13			
I135639		<20	<0.01	<10	<10	1	<10	298			
I135640		<20	<0.01	<10	<10	2	<10	563			
I135641		<20	<0.01	<10	<10	1	<10	282			
I135642		<20	<0.01	<10	<10	1	<10	433			
I135643		<20	<0.01	<10	<10	3	<10	615			
I135644		<20	<0.01	<10	<10	1	10	3220	3	0.091	0.312
I135645D		<20	<0.01	<10	<10	1	10	3150	3	0.091	0.302
I135646		<20	<0.01	<10	<10	2	<10	943			
I135647		<20	<0.01	<10	<10	2	<10	381			
I135648		<20	<0.01	<10	<10	2	<10	198			
I135649		<20	<0.01	<10	<10	1	<10	218			
I135650		<20	<0.01	<10	<10	<1	<10	143			
I135651		<20	<0.01	<10	<10	2	<10	93			
I135652		30	<0.01	<10	<10	<1	<10	3			
I135653		<20	<0.01	<10	<10	19	<10	148			
I135654D		<20	<0.01	<10	<10	18	<10	145			
I135655		<20	<0.01	<10	<10	92	<10	175			
I135656		<20	0.01	10	<10	13	30	>10000	107	4.99	2.27
I135657		<20	<0.01	<10	<10	69	<10	285			
I135658		<20	<0.01	<10	<10	73	10	1705			
I135659D		<20	<0.01	<10	<10	75	10	2030			
I135660		<20	<0.01	<10	<10	136	<10	250			
I135661		<20	<0.01	<10	<10	154	<10	141			
I135662		<20	0.01	<10	<10	168	<10	150			
I135663		<20	0.01	<10	<10	157	<10	211			
I135664		<20	<0.01	<10	<10	149	<10	157			



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Sample Description	Method Analyte Units LOR	Au- AA23	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Au ppm	Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.005	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
1135665		0.015	2.27	0.8	2.04	8	<10	20	<0.5	2	0.19	<0.5	44	29	122	12.05
1135666		0.008	2.32	0.4	0.40	2	<10	30	<0.5	2	0.09	<0.5	21	1	24	5.49
1135667		0.007	2.22	0.2	0.29	<2	<10	30	<0.5	2	0.08	<0.5	10	2	12	4.20
1135668		0.005	2.35	0.3	0.23	<2	<10	20	<0.5	2	0.08	<0.5	11	1	12	5.10
1135669		0.008	2.21	0.4	0.29	4	<10	30	<0.5	2	0.07	<0.5	12	4	16	4.20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
1135665		10	<1	0.07	<10	2.28	620	26	0.02	13	410	3	>10.0	<2	4	6
1135666		<10	<1	0.08	<10	0.97	245	5	0.02	1	210	3	5.12	<2	1	6
1135667		<10	<1	0.09	<10	1.60	366	2	0.03	<1	210	<2	3.17	<2	1	9
1135668		<10	<1	0.08	<10	1.46	318	1	0.03	<1	210	2	4.37	<2	1	8
1135669		<10	<1	0.11	<10	0.82	193	5	0.03	5	200	<2	3.87	<2	1	6



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46
		Th	Ti	Tl	U	V	W	Zn	Ag	Cu	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		20	0.01	10	10	1	10	2	1	0.001	0.001
I135665		<20	<0.01	<10	<10	30	<10	128			
I135666		<20	<0.01	<10	<10	2	<10	29			
I135667		<20	<0.01	<10	<10	2	<10	43			
I135668		<20	<0.01	<10	<10	2	<10	46			
I135669		<20	<0.01	<10	<10	3	<10	31			



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This report is for 48 Drill Core samples submitted to our lab in Terrace, BC, Canada on 2- SEP- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
BRAD MERCER
BRIAN WILLET

MARISSA LOE
TARAS NAHNYBIDA

VIVIENNE MCLENNAN
DANIEL NG

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 22d	Sample login - Rcd w/o BarCode dup

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS

To: KUTCHO COPPER CORP.
ATTN: MARISSA LOE
999 WEST HASTINGS STREET, SUITE 900
VANCOUVER BC V6C 2W2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TR11176941

Sample Description	Method Analyte Units LOR	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Au ppm 0.005	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
I135670		0.012	0.3	0.35	8	<10	30	<0.5	<2	0.11	<0.5	24	31	28	7.47	<10
I135671		0.008	0.3	0.51	9	<10	30	<0.5	<2	0.15	<0.5	22	31	32	8.12	<10
I135672		0.010	0.3	0.21	23	<10	40	<0.5	<2	0.06	<0.5	12	1	32	4.20	<10
I135673		0.016	0.2	0.21	17	<10	30	<0.5	<2	0.07	<0.5	22	1	66	5.83	<10
I135674		0.010	0.3	0.22	29	<10	40	<0.5	<2	0.07	<0.5	27	3	119	5.93	<10
I135675D		0.010	0.2	0.23	28	<10	40	<0.5	<2	0.07	<0.5	26	2	105	5.81	<10
I135676		0.009	0.4	0.28	11	<10	30	<0.5	<2	0.09	<0.5	37	28	338	8.82	<10
I135677		0.011	1.0	2.04	26	<10	60	<0.5	<2	0.12	0.9	40	109	1690	11.65	10
I135678		0.005	0.4	4.92	10	<10	30	<0.5	<2	0.08	<0.5	59	277	248	13.30	10
I135679		<0.005	<0.2	0.09	2	<10	<10	<0.5	<2	>25.0	<0.5	1	4	10	0.15	<10
I135680		0.009	1.0	3.06	18	<10	40	<0.5	<2	0.16	0.6	48	208	1345	12.65	10
I135681		0.014	0.4	0.22	10	<10	40	<0.5	<2	0.12	<0.5	24	3	82	6.39	<10
I135682		0.020	1.4	0.20	17	<10	30	<0.5	<2	0.08	4.8	37	1	261	7.51	<10
I135683		0.008	0.3	0.21	18	<10	50	<0.5	<2	0.12	<0.5	14	1	42	4.96	<10
I135684		0.010	0.3	0.20	20	<10	50	<0.5	<2	0.08	<0.5	21	1	47	4.49	<10
I135685		0.005	0.6	0.19	76	<10	50	<0.5	<2	0.06	<0.5	25	1	250	5.64	<10
I135686		<0.005	0.5	0.24	41	<10	30	<0.5	<2	0.04	0.5	51	1	170	8.77	<10
I135687D		<0.005	0.5	0.20	44	<10	30	<0.5	<2	0.04	<0.5	50	1	166	9.67	<10
I135688		0.006	0.2	0.23	9	<10	30	<0.5	2	0.06	<0.5	33	1	102	7.13	<10
I135689		<0.005	0.2	0.24	6	<10	30	<0.5	<2	0.06	<0.5	16	1	44	4.02	<10
I135690		<0.005	0.2	0.25	3	<10	40	<0.5	<2	0.11	<0.5	11	1	34	3.62	<10
I135691		<0.005	0.3	0.28	<2	<10	30	<0.5	<2	0.11	<0.5	10	6	52	3.96	<10
I135692		0.005	2.1	0.32	7	<10	20	<0.5	<2	0.11	0.6	1	1	1765	4.03	<10
I135693		0.861	71.2	0.73	53	<10	20	<0.5	43	0.93	77.5	131	33	>10000	33.0	10
I135694		0.005	0.6	0.75	4	<10	50	<0.5	<2	0.10	<0.5	5	1	116	2.89	<10
I135695		0.006	0.7	0.57	7	<10	30	<0.5	<2	0.08	<0.5	1	1	149	2.69	<10
I135743		0.044	4.1	1.16	60	<10	20	<0.5	<2	0.46	0.9	3	1	61	4.42	<10
I135744		0.036	5.5	0.85	33	<10	30	<0.5	<2	0.31	4.3	2	1	409	2.76	<10
I135745		0.045	8.4	0.41	34	<10	50	<0.5	<2	0.26	11.7	3	1	1240	4.92	<10
I135746		0.060	8.4	0.45	26	<10	40	<0.5	2	0.48	5.6	6	1	1230	7.24	<10
I135747		0.091	11.0	0.61	32	<10	30	<0.5	3	0.48	185.0	4	1	2080	7.26	<10
I135748D		0.091	11.2	0.57	33	<10	30	<0.5	4	0.43	182.0	4	1	1920	6.65	<10
I135749		<0.005	0.3	0.11	24	<10	10	<0.5	2	7.6	1.1	2	3	60	2.02	<10
I135750		0.007	<0.2	0.37	36	<10	10	<0.5	<2	5.48	0.9	3	7	48	3.20	<10
I135751		<0.005	<0.2	0.37	26	<10	20	<0.5	<2	5.79	<0.5	3	3	33	2.76	<10
I135752		<0.005	<0.2	0.26	9	<10	30	<0.5	<2	4.07	0.8	1	3	39	2.25	<10
I135753		0.554	26.2	0.29	26	<10	30	<0.5	4	1.54	218	7	4	>10000	8.41	<10
I135754		0.770	71.0	0.72	49	<10	20	<0.5	29	0.93	77.8	126	33	>10000	33.3	10
I135755		1.490	63.3	0.34	11	<10	30	<0.5	10	0.54	25.8	6	3	>10000	3.82	<10
I135756		0.164	35.2	0.12	72	<10	10	<0.5	4	0.28	160.0	3	5	>10000	23.4	<10



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CERTIFICATE OF ANALYSIS TR11176941

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I135670		<1	0.08	<10	2.66	822	10	0.03	28	230	3	5.96	<2	3	14	<20
I135671		1	0.08	<10	4.08	863	5	0.03	26	210	3	5.54	<2	4	9	<20
I135672		<1	0.08	<10	0.96	226	10	0.02	2	110	2	3.97	2	1	5	<20
I135673		<1	0.09	<10	0.08	48	13	0.03	5	170	<2	6.59	<2	<1	3	<20
I135674		<1	0.11	<10	0.22	75	12	0.02	15	260	2	6.43	<2	1	3	<20
I135675D		<1	0.12	<10	0.23	85	12	0.02	15	270	<2	5.77	<2	1	3	<20
I135676		<1	0.12	<10	0.86	226	13	0.02	44	340	3	8.32	<2	3	6	<20
I135677		<1	0.09	<10	3.34	726	3	0.04	55	420	4	7.39	2	9	27	<20
I135678		1	0.04	<10	5.05	1070	1	0.01	115	310	4	7.13	<2	15	5	<20
I135679		1	0.01	<10	1.88	43	<1	0.02	3	50	<2	0.15	<2	<1	4610	20
I135680		<1	0.04	<10	5.28	1000	2	0.02	110	320	7	7.25	<2	15	17	<20
I135681		<1	0.11	<10	0.16	53	9	0.02	1	360	3	7.23	<2	1	5	<20
I135682		<1	0.09	<10	0.04	24	18	0.02	<1	230	3	8.71	<2	<1	7	<20
I135683		<1	0.10	<10	0.03	19	6	0.02	<1	500	<2	5.20	<2	<1	3	<20
I135684		<1	0.11	<10	0.03	19	10	0.02	<1	330	2	4.70	<2	<1	3	<20
I135685		<1	0.10	<10	0.02	17	17	0.02	<1	240	2	6.37	<2	<1	3	<20
I135686		<1	0.11	<10	0.03	27	22	0.03	<1	180	6	>10.0	<2	<1	3	<20
I135687D		<1	0.09	<10	0.03	20	22	0.02	<1	180	4	>10.0	<2	<1	2	<20
I135688		<1	0.10	<10	0.26	94	12	0.03	<1	190	3	7.96	<2	<1	3	<20
I135689		<1	0.09	<10	0.92	265	4	0.02	<1	220	2	3.36	<2	1	3	<20
I135690		<1	0.10	<10	0.66	189	5	0.03	3	410	2	3.27	<2	1	3	<20
I135691		<1	0.09	<10	1.07	352	3	0.03	13	390	4	3.33	<2	1	5	<20
I135692		<1	0.08	<10	1.35	472	2	0.03	<1	280	5	3.55	<2	1	5	<20
I135693		2	0.08	<10	1.16	583	12	0.02	8	80	2880	>10.0	8	1	4	<20
I135694		<1	0.08	<10	1.01	326	2	0.05	<1	330	5	2.56	<2	1	7	<20
I135695		<1	0.06	<10	1.03	300	2	0.04	<1	290	4	2.49	<2	1	6	<20
I135743		<1	0.06	<10	1.68	366	13	0.09	2	120	184	4.41	4	3	7	<20
I135744		<1	0.06	<10	1.09	239	79	0.07	11	180	181	2.76	<2	2	5	<20
I135745		1	0.12	<10	0.36	143	42	0.05	7	230	110	5.75	<2	1	4	<20
I135746		<1	0.11	<10	0.51	235	26	0.04	5	290	66	8.63	<2	2	5	<20
I135747		5	0.09	<10	0.84	312	26	0.07	9	430	33	>10.0	4	1	7	<20
I135748D		5	0.08	<10	0.79	296	25	0.07	9	370	28	9.65	4	1	7	<20
I135749		1	0.02	<10	3.98	7160	13	0.04	16	1280	29	1.76	2	1	46	<20
I135750		<1	0.03	<10	3.83	5350	32	0.03	26	660	44	3.21	2	2	42	<20
I135751		1	0.05	<10	4.38	4800	22	0.05	16	510	16	2.48	3	3	47	<20
I135752		1	0.08	<10	3.54	1950	<1	0.05	9	330	12	1.92	<2	3	44	<20
I135753		8	0.10	<10	0.61	436	68	0.07	92	1870	2850	>10.0	4	2	23	<20
I135754		1	0.08	<10	1.16	595	6	0.03	6	70	2860	>10.0	14	1	2	<20
I135755		2	0.10	<10	0.05	36	86	0.07	53	2140	288	4.79	3	2	12	<20
I135756		7	0.04	<10	0.10	52	9	0.04	78	490	775	>10.0	9	1	5	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001	Zn % 0.001
I135670		<0.01	<10	<10	25	<10	108			
I135671		<0.01	<10	<10	19	<10	216			
I135672		<0.01	10	<10	1	<10	92			
I135673		<0.01	<10	<10	1	<10	13			
I135674		<0.01	<10	<10	3	<10	23			
I135675D		<0.01	<10	<10	3	<10	24			
I135676		<0.01	<10	<10	22	<10	67			
I135677		<0.01	<10	<10	89	<10	64			
I135678		0.01	<10	<10	142	<10	70			
I135679		<0.01	<10	10	3	<10	2			
I135680		<0.01	<10	<10	127	<10	170			
I135681		<0.01	<10	<10	2	<10	19			
I135682		<0.01	<10	<10	1	<10	330			
I135683		<0.01	<10	<10	<1	<10	21			
I135684		<0.01	<10	<10	<1	<10	9			
I135685		<0.01	<10	<10	<1	<10	6			
I135686		<0.01	<10	<10	<1	<10	11			
I135687D		<0.01	<10	<10	1	<10	10			
I135688		<0.01	<10	<10	1	<10	104			
I135689		<0.01	<10	<10	1	<10	284			
I135690		<0.01	<10	<10	1	<10	168			
I135691		<0.01	<10	<10	4	<10	232			
I135692		<0.01	<10	<10	1	<10	167			
I135693		0.01	10	<10	12	20	>10000	67	1.465	2.97
I135694		<0.01	<10	<10	1	<10	64			
I135695		<0.01	<10	<10	1	<10	50			
I135743		<0.01	<10	<10	4	<10	450			
I135744		<0.01	<10	<10	4	<10	1015			
I135745		<0.01	<10	<10	3	<10	2460			
I135746		<0.01	<10	<10	3	<10	1080			
I135747		<0.01	<10	<10	5	<10	>10000	11	0.190	3.48
I135748D		<0.01	<10	<10	4	<10	>10000	10	0.177	3.45
I135749		<0.01	<10	10	9	<10	291			
I135750		<0.01	<10	10	20	<10	216			
I135751		<0.01	<10	<10	16	<10	131			
I135752		<0.01	<10	<10	11	<10	258			
I135753		<0.01	<10	10	17	<10	>10000	22	1.285	4.27
I135754		0.01	10	<10	7	<10	>10000	65	1.450	2.95
I135755		<0.01	<10	20	22	<10	4720	61	2.47	0.436
I135756		<0.01	<10	10	14	<10	>10000	32	1.750	3.17



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Sample Description	Method Analyte Units LOR	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
I135757		0.042	6.5	0.47	21	<10	50	<0.5	2	1.75	10.9	13	9	2780	5.80	<10
I135758		0.292	33.7	0.04	242	<10	10	<0.5	9	3.29	109.5	7	3	>10000	24.1	<10
I135759		1.900	>100	1.19	33	<10	10	<0.5	131	0.30	52.3	139	24	>10000	25.9	10
I135760		0.194	32.3	0.02	235	<10	<10	<0.5	8	4.94	122.0	<1	2	>10000	25.8	<10
I135761		0.211	29.2	0.01	279	<10	<10	<0.5	<2	5.86	78.1	95	3	>10000	24.6	<10
I135762		0.221	21.6	0.02	345	<10	<10	<0.5	<2	5.13	121.0	6	3	>10000	22.9	<10
I135763D		0.226	23.9	0.02	352	<10	10	<0.5	<2	5.54	127.5	7	4	>10000	25.0	10
I135764		0.258	20.4	0.02	299	<10	10	<0.5	3	4.84	45.7	1	2	>10000	25.1	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
I135757		1	0.17	<10	0.13	79	147	0.07	223	5630	21	7.20	<2	2	30	<20
I135758		7	0.01	<10	1.84	2490	8	0.03	19	260	309	>10.0	12	1	12	<20
I135759		<1	0.05	<10	1.39	342	6	0.02	5	80	1380	>10.0	6	2	4	<20
I135760		8	<0.01	<10	2.85	3460	13	0.03	2	150	240	>10.0	18	<1	21	<20
I135761		5	<0.01	<10	4.49	4790	12	0.02	2	160	616	>10.0	9	<1	20	<20
I135762		7	<0.01	<10	4.01	3320	8	0.03	4	220	675	>10.0	19	<1	20	<20
I135763D		7	<0.01	<10	4.35	3560	8	0.02	3	240	729	>10.0	15	<1	22	<20
I135764		3	<0.01	<10	4.01	3720	7	0.02	1	190	443	>10.0	4	<1	20	<20



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CERTIFICATE OF ANALYSIS TR11176941

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	Zn %
		0.01	10	10	1	10	2	1	0.001	0.001
1135757		<0.01	<10	20	44	<10	2160	6	0.261	0.214
1135758		<0.01	<10	<10	22	<10	>10000	30	1.635	2.42
1135759		0.01	<10	<10	14	20	>10000	110	4.81	2.25
1135760		<0.01	<10	10	21	10	>10000	28	1.880	3.52
1135761		<0.01	<10	<10	34	10	>10000	26	1.880	2.34
1135762		<0.01	<10	10	36	<10	>10000	20	1.405	3.40
1135763D		<0.01	<10	<10	39	<10	>10000	20	1.455	3.37
1135764		<0.01	<10	10	33	<10	>10000	20	0.945	1.290



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CERTIFICATE TR11188397

Project: KCC- 2011- 018

P.O. No.: 114694

This report is for 47 Drill Core samples submitted to our lab in Terrace, BC, Canada on 7- SEP- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 BRAD MERCER
 BRIAN WILLET

MARISSA LOE
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 DANIEL NG

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 22d	Sample login - Rcd w/o BarCode dup

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
I135781		<0.005	<0.2	1.27	2	<10	100	<0.5	<2	1.62	<0.5	3	4	10	2.36	<10
I135782		<0.005	0.2	1.92	<2	<10	90	<0.5	<2	2.06	<0.5	3	5	17	2.52	<10
I135783		<0.005	1.2	1.25	34	<10	70	<0.5	<2	2.58	1.1	4	7	104	5.71	<10
I135784		0.010	2.7	0.92	123	<10	30	<0.5	<2	1.87	3.3	13	9	146	11.50	<10
I135785		0.009	0.8	0.63	33	<10	110	<0.5	<2	2.60	3.1	7	10	108	3.71	<10
I135786		0.006	1.1	0.80	58	<10	70	<0.5	<2	2.64	1.7	17	4	159	8.97	<10
I135787		0.006	0.5	0.68	16	<10	90	<0.5	<2	1.38	<0.5	10	1	52	4.59	<10
I135788		<0.005	<0.2	0.14	<2	<10	20	<0.5	<2	0.10	<0.5	<1	<1	1	0.28	<10
I135789		<0.005	0.2	1.70	2	<10	60	<0.5	<2	2.30	<0.5	4	8	21	2.73	<10
I135790		<0.005	0.3	1.54	4	<10	200	<0.5	<2	1.91	<0.5	2	3	24	2.92	<10
I135791		<0.005	1.6	0.44	40	<10	60	<0.5	<2	1.90	1.7	19	4	129	9.03	<10
I135792		<0.005	0.4	1.10	4	<10	90	<0.5	<2	3.84	<0.5	19	<1	69	5.52	<10
I135793		<0.005	<0.2	3.28	6	<10	30	<0.5	<2	4.10	<0.5	19	2	46	6.17	10
I135794		<0.005	0.2	2.35	2	<10	60	<0.5	<2	3.98	1.3	14	1	96	4.81	<10
I135795		<0.005	0.5	1.82	2	<10	100	<0.5	<2	2.29	5.5	4	14	122	2.87	<10
I135796		<0.005	0.3	1.76	3	<10	70	<0.5	<2	2.99	0.5	4	4	33	2.63	<10
I135797		<0.005	1.0	0.78	22	<10	100	<0.5	<2	3.18	3.3	5	10	127	3.26	<10
I135798		0.005	0.7	0.26	5	<10	50	<0.5	4	0.38	2.0	6	10	106	8.69	<10
I135799		<0.005	0.7	0.17	4	<10	40	<0.5	4	0.14	1.8	7	8	87	7.67	<10
I135800		<0.005	<0.2	0.84	2	<10	50	<0.5	2	2.41	<0.5	1	4	19	3.79	<10
I135801		0.010	0.3	1.00	4	<10	80	<0.5	3	4.44	3.8	3	9	88	4.42	<10
I135802		<0.005	0.2	1.60	22	<10	50	<0.5	2	7.1	<0.5	64	6	121	5.31	<10
I135803		0.005	0.4	0.45	47	<10	80	<0.5	2	4.51	5.7	99	5	166	6.45	<10
I135804		<0.005	<0.2	0.28	4	<10	30	<0.5	3	10.5	0.5	22	1	65	3.90	<10
I135805		<0.005	<0.2	1.67	<2	<10	10	<0.5	2	6.85	<0.5	34	1	93	6.26	<10
I135696		0.006	0.3	0.73	5	<10	30	<0.5	3	0.21	<0.5	3	1	26	1.92	<10
I135697		0.021	1.6	0.64	15	<10	70	<0.5	3	0.25	<0.5	4	1	81	2.99	<10
I135698		0.014	1.5	0.59	11	<10	70	<0.5	2	0.23	<0.5	4	1	77	2.87	<10
I135699		0.011	1.0	0.92	14	<10	50	<0.5	4	0.26	8.3	4	1	94	3.09	<10
I135700		0.013	0.6	0.48	11	<10	70	<0.5	3	0.23	5.6	1	1	89	2.47	<10
I135701		0.013	0.6	0.50	9	<10	70	<0.5	2	0.22	5.2	1	2	86	2.64	<10
I135702		0.011	0.5	0.46	10	<10	60	<0.5	2	0.21	2.8	1	1	35	1.96	<10
I135703		0.012	0.7	0.39	10	<10	30	<0.5	3	0.25	<0.5	1	2	26	2.04	<10
I135704		0.021	1.9	0.56	12	<10	30	<0.5	<2	0.18	6.5	1	1	355	2.72	<10
I135705		0.016	0.8	0.45	12	<10	30	<0.5	2	0.17	5.2	1	2	118	2.80	<10
I135706		0.028	1.3	0.54	17	<10	20	<0.5	3	0.18	10.3	2	2	626	2.94	<10
I135707		0.691	65.8	0.69	48	<10	10	<0.5	54	0.87	70.8	114	29	>10000	30.6	10
I135708		0.019	0.7	0.71	6	<10	10	<0.5	<2	0.26	10.6	2	4	449	2.57	<10
I135709		0.020	1.0	0.53	10	<10	10	<0.5	3	0.18	13.6	1	1	265	2.20	<10
I135710		0.015	1.3	0.47	15	<10	10	<0.5	2	0.10	7.6	1	2	141	1.92	<10



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CERTIFICATE OF ANALYSIS TR11188397

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I135781		<1	0.13	10	1.21	263	<1	0.04	3	220	2	0.01	2	4	51	<20
I135782		<1	0.09	<10	1.23	280	<1	0.07	6	450	2	0.11	<2	4	38	<20
I135783		<1	0.08	<10	1.29	348	15	0.04	29	700	24	4.28	<2	4	55	<20
I135784		<1	0.13	<10	0.76	309	43	0.04	71	1510	41	>10.0	4	3	35	<20
I135785		<1	0.11	10	0.79	319	26	0.06	49	3270	20	2.96	2	3	38	<20
I135786		<1	0.11	<10	1.43	471	29	0.04	46	900	21	7.51	2	3	35	<20
I135787		<1	0.11	<10	1.33	282	11	0.04	8	40	7	2.95	<2	3	18	<20
I135788		<1	0.02	<10	0.07	38	<1	0.01	<1	50	<2	0.02	2	<1	3	<20
I135789		<1	0.07	10	1.21	305	<1	0.05	8	420	2	1.92	<2	5	48	<20
I135790		<1	0.10	10	1.34	311	5	0.07	9	330	6	2.34	<2	4	46	<20
I135791		<1	0.11	<10	1.01	321	14	0.03	46	380	25	8.18	3	4	26	<20
I135792		<1	0.09	<10	1.61	564	2	0.10	31	580	<2	3.21	<2	10	48	<20
I135793		<1	0.05	<10	1.81	526	<1	0.06	29	630	<2	0.78	<2	19	48	<20
I135794		<1	0.11	<10	1.62	600	32	0.06	49	220	<2	1.04	<2	10	52	<20
I135795		<1	0.10	10	1.52	353	55	0.08	44	2870	15	1.68	<2	6	32	<20
I135796		<1	0.06	10	1.61	501	11	0.10	8	640	6	1.43	<2	6	44	<20
I135797		<1	0.10	10	0.58	364	41	0.03	51	2080	30	2.48	<2	3	49	<20
I135798		<1	0.06	<10	0.17	334	25	0.02	44	250	17	5.12	2	2	6	<20
I135799		1	0.05	10	0.09	198	27	0.01	39	190	11	5.16	<2	1	3	<20
I135800		<1	0.10	10	1.39	673	2	0.08	8	190	5	1.85	<2	3	25	<20
I135801		1	0.14	10	1.48	754	42	0.06	75	2380	30	2.39	2	4	40	<20
I135802		1	0.10	10	1.78	929	18	0.06	88	1040	3	2.06	<2	5	97	<20
I135803		1	0.13	10	1.47	871	24	0.06	122	2120	6	3.51	2	3	38	<20
I135804		1	0.05	<10	1.56	1370	7	0.08	19	930	3	1.19	<2	6	112	<20
I135805		<1	0.02	<10	1.65	1295	1	0.11	4	360	2	1.49	2	18	65	<20
I135696		1	0.09	<10	0.88	283	<1	0.08	<1	460	3	1.68	<2	1	8	<20
I135697		1	0.10	<10	0.93	434	4	0.08	<1	390	9	2.87	2	1	8	<20
I135698		1	0.09	<10	0.82	353	4	0.07	<1	380	8	2.78	<2	1	8	<20
I135699		<1	0.10	<10	1.41	554	2	0.09	<1	470	11	3.02	2	2	7	<20
I135700		1	0.10	<10	0.79	390	1	0.07	<1	180	9	2.43	<2	1	6	<20
I135701		1	0.10	<10	0.82	402	1	0.07	<1	180	9	2.50	<2	1	6	<20
I135702		<1	0.09	<10	0.89	382	1	0.06	<1	240	70	1.86	2	1	5	<20
I135703		<1	0.08	<10	0.83	391	1	0.07	<1	320	70	1.81	2	1	6	<20
I135704		1	0.08	<10	1.60	677	<1	0.07	<1	210	11	2.66	<2	2	5	<20
I135705		1	0.10	<10	1.15	548	1	0.06	<1	240	32	2.63	2	1	5	<20
I135706		1	0.08	<10	1.04	591	2	0.08	<1	330	19	2.90	3	1	4	<20
I135707		2	0.08	<10	1.08	538	8	0.02	6	70	2580	>10.0	8	1	3	<20
I135708		<1	0.07	<10	1.56	885	3	0.06	<1	520	6	2.24	<2	2	6	<20
I135709		1	0.08	<10	0.65	309	3	0.07	<1	450	6	2.22	<2	1	4	<20
I135710		<1	0.09	<10	0.72	356	2	0.06	<1	240	44	1.83	<2	1	3	<20



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CERTIFICATE OF ANALYSIS TR11188397

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001	Zn % 0.001
I135781		<0.01	<10	<10	7	<10	76			
I135782		<0.01	<10	<10	8	<10	85			
I135783		<0.01	<10	<10	32	<10	221			
I135784		<0.01	<10	<10	72	<10	499			
I135785		<0.01	<10	<10	44	<10	439			
I135786		<0.01	<10	<10	32	<10	305			
I135787		<0.01	<10	<10	8	<10	103			
I135788		<0.01	<10	<10	1	<10	9			
I135789		<0.01	<10	<10	12	<10	102			
I135790		<0.01	<10	<10	9	<10	112			
I135791		<0.01	<10	<10	46	<10	273			
I135792		<0.01	<10	<10	48	<10	146			
I135793		<0.01	<10	<10	147	<10	131			
I135794		<0.01	<10	<10	53	<10	211			
I135795		<0.01	<10	10	78	<10	548			
I135796		<0.01	<10	<10	13	<10	123			
I135797		<0.01	<10	<10	57	<10	437			
I135798		<0.01	<10	<10	44	<10	294			
I135799		<0.01	<10	<10	26	<10	241			
I135800		<0.01	<10	<10	4	<10	114			
I135801		<0.01	<10	10	47	<10	528			
I135802		<0.01	<10	<10	44	<10	186			
I135803		<0.01	<10	<10	25	<10	580			
I135804		<0.01	<10	<10	14	<10	157			
I135805		<0.01	<10	<10	81	<10	105			
I135696		<0.01	<10	<10	1	<10	37			
I135697		<0.01	<10	<10	1	<10	79			
I135698		<0.01	<10	<10	1	<10	70			
I135699		<0.01	<10	<10	1	<10	914			
I135700		<0.01	<10	<10	<1	<10	1015			
I135701		<0.01	<10	<10	1	<10	951			
I135702		<0.01	<10	<10	<1	<10	567			
I135703		<0.01	<10	<10	<1	<10	156			
I135704		<0.01	<10	<10	1	<10	1055			
I135705		<0.01	<10	<10	1	<10	1030			
I135706		<0.01	<10	<10	1	<10	2150			
I135707		0.01	10	<10	9	20	>10000	67	1.445	2.92
I135708		<0.01	<10	<10	1	<10	1990			
I135709		<0.01	<10	<10	1	<10	2800	1	0.034	0.290
I135710		<0.01	<10	<10	<1	<10	1665			



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CERTIFICATE OF ANALYSIS TR11188397

Sample Description	Method Analyte Units LOR	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
I135711		<0.005	0.3	0.81	5	<10	10	<0.5	2	0.10	0.5	1	1	28	1.45	<10
I135712		<0.005	<0.2	0.87	3	<10	10	<0.5	3	0.15	<0.5	<1	3	16	1.61	<10
I135713		<0.005	<0.2	0.04	<2	<10	<10	<0.5	2	>25.0	<0.5	<1	<1	<1	0.05	<10
I135714		0.005	0.2	0.56	3	<10	10	<0.5	2	0.17	1.1	1	3	24	1.59	<10
I135715		0.005	0.2	0.39	7	<10	10	<0.5	2	0.18	0.6	1	1	37	1.46	<10
I135716		<0.005	<0.2	0.31	3	<10	10	<0.5	3	0.16	<0.5	1	3	14	1.56	<10
I135717		0.006	<0.2	0.45	2	<10	20	<0.5	2	0.15	<0.5	1	1	21	1.77	<10



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CERTIFICATE OF ANALYSIS TR11188397

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
I135711		1	0.08	<10	0.86	331	1	0.08	<1	280	32	1.30	<2	1	4	<20
I135712		<1	0.07	<10	1.26	514	1	0.09	<1	380	4	1.29	<2	1	4	<20
I135713		1	<0.01	<10	1.76	41	<1	0.03	<1	50	<2	0.08	<2	<1	5560	20
I135714		1	0.06	<10	1.41	470	1	0.09	<1	430	3	1.26	<2	2	8	<20
I135715		<1	0.04	<10	1.65	424	<1	0.11	<1	480	3	1.15	<2	2	6	<20
I135716		<1	0.05	<10	1.57	416	1	0.09	<1	420	2	1.09	<2	2	4	<20
I135717		<1	0.08	<10	2.05	673	<1	0.08	<1	250	<2	1.24	<2	2	5	<20



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Page: 3 - C
 Total # Pages: 3 (A - C)
 Finalized Date: 31- OCT- 2011
 Account: LTU

Project: KCC- 2011- 018

CERTIFICATE OF ANALYSIS TR11188397

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- OG46	ME- OG46	ME- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	Zn %
		0.01	10	10	1	10	2	1	0.001	0.001
I135711		<0.01	<10	<10	1	<10	196			
I135712		<0.01	<10	<10	1	<10	153			
I135713		<0.01	<10	<10	1	<10	3			
I135714		<0.01	<10	<10	1	<10	260			
I135715		<0.01	<10	<10	1	<10	251			
I135716		<0.01	<10	<10	1	<10	215			
I135717		<0.01	<10	<10	<1	<10	385			



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Page: 1
 Finalized Date: 4- OCT- 2011
 Account: LTU

CERTIFICATE TR11196697

Project: KCC- 2011- 003
 P.O. No.: 114694
 This report is for 13 Drill Core samples submitted to our lab in Terrace, BC, Canada on 23- SEP- 2011.
 The following have access to data associated with this certificate:


DANI ALLDRICK BRAD MERCER BRIAN WILLET	MARISSA LOE TARAS NAHNYBIDA	VIVIENNE MCLENNAN DANIEL NG
--	--------------------------------	--------------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: LTU

Project: KCC- 2011- 003

CERTIFICATE OF ANALYSIS TR11196697

Sample Description	Method Analyte Units LOR	Ag- OG46	Cu- OG46	Zn- OG46
		Ag ppm I	Cu % 0.001	Zn % 0.001
1134010		<1	0.038	0.456
1134019		5	1.380	0.022
1134020		74	2.46	0.954
1134021		2	0.239	0.278
1134022		9	0.336	11.55
1134023		7	0.246	2.70
1134038		9	0.518	0.925
1134039		2	0.150	1.205
1134041		3	0.279	0.031
1134042D		3	0.216	0.029
1134063		26	0.601	3.08
1134103		26	0.606	3.15
1134125		98	0.610	0.532



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 Account: LTU

CERTIFICATE TR11196698

Project: KCC- 2011- 004
 P.O. No.: 114694
 This report is for 17 Drill Core samples submitted to our lab in Terrace, BC, Canada on 23- SEP- 2011.
 The following have access to data associated with this certificate:

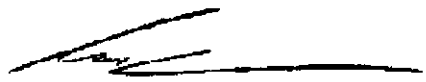
DANI ALLDRICK BRAD MERCER BRIAN WILLET	MARISSA LOE TARAS NAHNYBIDA	VIVIENNE MCLENNAN DANIEL NG
--	--------------------------------	--------------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: LTU

Project: KCC- 2011- 004

CERTIFICATE OF ANALYSIS TR11196698

Sample Description	Method Analyte Units LOR	Ag- OG46	Cu- OG46	Zn- OG46
		Ag ppm 1	Cu % 0.001	Zn % 0.001
I134157		<1	0.024	0.301
I134158		27	0.433	1.330
I134159		28	0.561	0.955
I134161		4	0.123	0.754
I134162		4	0.211	0.526
I134164		5	0.275	0.789
I134175		2	0.706	0.016
I134176D		1	0.656	0.013
I134177		19	1.080	0.274
I134178		17	0.676	1.615
I134183		36	1.470	0.595
I134184		19	0.778	0.680
I134185		12	0.706	0.031
I134187		6	0.403	0.940
I134188		2	0.130	0.890
I134189		12	0.439	0.175
I134190		22	1.080	0.049



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CERTIFICATE TR11196699

Project: KCC- 2011- 011
 P.O. No.: 114694
 This report is for 8 Drill Core samples submitted to our lab in Terrace, BC, Canada on 27- SEP- 2011.

The following have access to data associated with this certificate:

DANI ALLDRICK
 BRAD MERCER
 BRIAN WILLET

MARISSA LOE
 TARAS NAHNYBIDA

VIVIENNE MCLENNAN
 DANIEL NG

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: KCC- 2011- 011

CERTIFICATE OF ANALYSIS TR11196699

Sample Description	Method Analyte Units LOR	Ag- OG46	Cu- OG46	Zn- OG46
		Ag ppm 1	Cu % 0.001	Zn % 0.001
I134497		1	1.320	0.058
I134498		4	0.795	0.032
I134500		1	0.542	0.013
I135501		5	0.992	0.563
I135503		4	0.576	1.585
I135504		6	1.435	0.948
I135505		3	1.470	1.055
I135511		6	0.120	0.357



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CERTIFICATE TR11197130

Project: KCC- 2011- 010
 P.O. No.: 114694
 This report is for 7 Drill Core samples submitted to our lab in Terrace, BC, Canada on 23- SEP- 2011.
 The following have access to data associated with this certificate:


DANI ALLDRICK BRAD MERCER BRIAN WILLET	MARISSA LOE TARAS NAHNYBIDA	VIVIENNE MCLENNAN DANIEL NG
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 4- OCT- 2011
 Account: LTU

Project: KCC- 2011- 010

CERTIFICATE OF ANALYSIS TR11197130

Sample Description	Method Analyte Units LOR	Ag- OG46	Cu- OG46	Zn- OG46
		Ag ppm	Cu %	Zn %
		1	0.001	0.001
I134458		79	2.54	0.973
I134460		16	0.794	2.33
I134461		3	0.277	1.985
I134463		3	0.273	1.850
I134467		<1	0.107	0.314
I134468D		<1	0.117	0.304
I134474		1	0.273	0.017

APPENDIX XI

LABORATORY ACCREDITATION AND QA/QC OVERVIEW



QUALITY ASSURANCE OVERVIEW

Laboratory Accreditation and Certification

ISO 17025

ALS Mineral's North Vancouver and Reno laboratories have received ISO 17025 accreditation from the Standards Council of Canada under CAN-P-4E (ISO/IEC 17025:2005), the General Requirements for the Competence of Testing and Calibration Laboratories, and the PALCAN Handbook (CAN-P-1570).



The scope of accreditation for ALS Minerals Reno includes the following method:

- Au-AA: Determination of Au by Lead Collection Fire Assay and AAS

The scope of accreditation for ALS Minerals Vancouver includes the following methods:

- Au-AA: Determination of Au by Lead Collection Fire Assay and AAS
- Au/Ag-GRA: Determination of Au and Ag by Lead Collection Fire Assay and Gravimetric Finish
- PGM-ICP: Determination of Au, Pt and Pd by Lead Collection Fire Assay and ICP-AES
- ME-ICP41: Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Ti, Tl, U, V, W, Zn) Determination by Aqua Regia Digestion and ICP-AES
- ME-ICP61: Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Ti, Tl, U, V, W, Y, Zn and Zr) Determination by 4-Acid Digestion and ICP-AES
- ICP81: Al, Co, CU, Fe, Mg, Mn, Ni, Pb, S and Zn by Sodium Peroxide Fusion and ICP-AES
- OG46: Ag, Cu, Pb, and Zn – Determination of Ores and High Grade Material Using ICP-AES Following an Aqua Regia Digestion
- OG62: Ag, Cu, Pb and Zn – Determination of Ores and High Grade Material Using ICP-AES Following a Four-Acid Digestion
- AA45: Ag, Cu, Pb and Zn – Determination of Base Meals Using AAS Following an Aqua Regia Digestion
- AA46: Ag, Cu, Pb, Zn and Mo – Determination of Ores and High Grade materials Using AAS Following an Aqua Regia Digestion
- AA61: Ag, Co, Cu, Ni, Pb and Zn – Determination of Base Metals Using AAS Following a Four-Acid Digestion
- AA62: Ag, Co, CU, Mo, Ni, Pb and Zn – Determination of Ores and High Grade Materials Using AAS Following a Four-Acid Digestion

Our Val d'Or, Quebec lab is actively pursuing ISO 17025 accreditation for Au by Fire Assay methods.

ISO 9001



ALS Minerals laboratories in North America are registered to ISO 9001:2008 for the “provision of assay and geochemical analytical services” by QMI-SAI Global Quality Registrars.

The ISO 9001: 2008 registration provides evidence of a quality management system covering all aspects of our organization. ISO 17025 accreditation provides specific assessment of our laboratory’s analytical capabilities. In our opinion, the combination of the two ISO standards provides our clients complete assurance regarding the quality of every aspect of ALS Minerals operations.

Aside from laboratory accreditation, ALS Minerals has been a leader in participating in, and sponsoring, the assayer certification program in British Columbia. Many of our analysts have completed this demanding program that includes extensive theoretical and practical examinations. Upon successful completion of these examinations, they are awarded the title of Registered Assayer.

Quality Assurance Program

The quality assurance program is an integral part of all day-to-day activities at ALS Minerals and involves all levels of staff. Responsibilities are formally assigned for all aspects of the quality assurance program.

Sample Preparation Quality Specifications

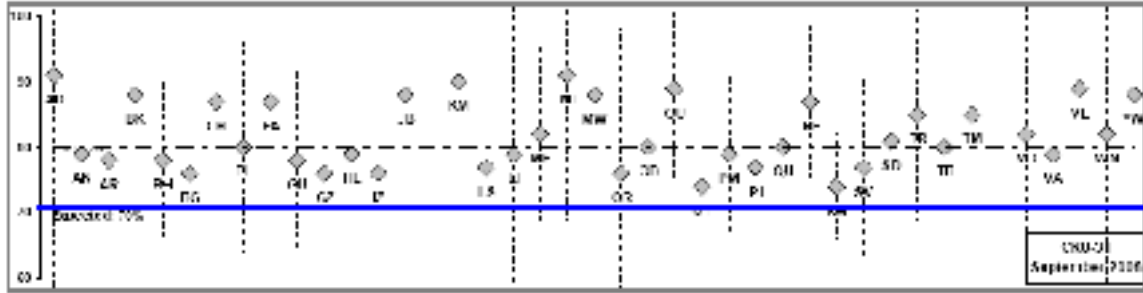
Standard specifications for sample preparation are clearly defined and monitored. The specifications for our most common methods are as follows:

- **Crushing (CRU-31)**
 - > 70% of the crushed sample passes through a 2 mm screen
- **Ringing (PUL-31)**
 - > 85% of the ring pulverized sample passes through a 75 micron screen (Tyler 200 mesh)
- **Samples Received as Pulps**
 - >85% of the sample passes through a 75 micron screen (Tyler 200 mesh)

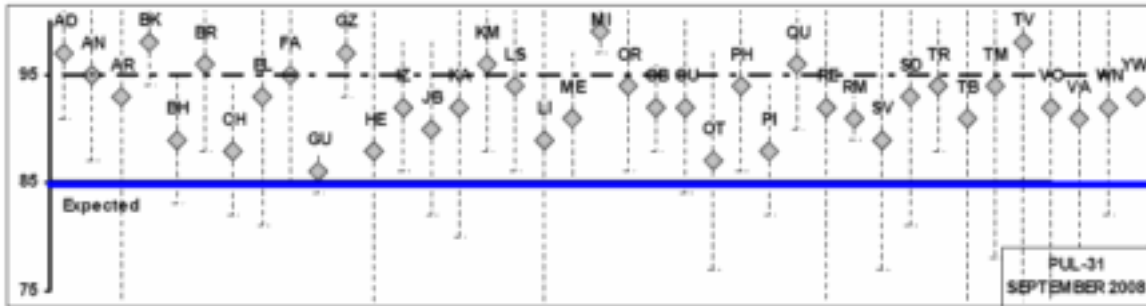
These characteristics are measured and results reported to verify the quality of sample preparation. Our standard operating procedures require that samples at every preparation station are tested regularly throughout each shift. Measurement of sample preparation quality allows the identification of equipment, operators and processes that are not operating within specifications.

QC results from all global sample preparation laboratories are captured by the LIM System and the QA Department compiles a monthly review report for senior management on the performance of each laboratory from this data.

CRU-31



PUL-31



Other Sample Preparation Specifications

Sample preparation is a vital part of any analysis protocol. Many projects require sample preparation to other specifications, for instance >90% of the crushed sample to pass through a 2 mm screen. These procedures can easily be accommodated and the Prep QC monitoring system is essential in ensuring the required specifications are routinely met.

Analytical Quality Control – Reference Materials, Blanks & Duplicates

The LIMS inserts quality control samples (reference materials, blanks and duplicates) on each analytical run, based on the rack sizes associated with the method. The rack size is the number of sample including QC samples included in a batch. The blank is inserted at the beginning, standards are inserted at random intervals, and duplicates are analysed at the end of the batch. Quality control samples are inserted based on the following rack sizes specific to the method:

Rack Size	Methods	Quality Control Sample Allocation
20	Specialty methods including specific gravity, bulk density, and acid insolubility	2 standards, 1 duplicate, 1 blank
28	Specialty fire assay, assay-grade, umpire and concentrate methods	1 standard, 1 duplicate, 1 blank
39	XRF methods	2 standards, 1 duplicate, 1 blank
40	Regular AAS, ICP-AES and ICP-MS methods	2 standards, 1 duplicate, 1 blank
84	Regular fire assay methods	2 standards, 3 duplicates, 1 blank

Laboratory staff analyse quality control samples at least at the frequency specified above. If necessary, they may include additional quality control samples above the minimum specifications.

All data gathered for quality control samples – blanks, duplicates and reference materials – are automatically captured, sorted and retained in the QC Database.

Quality Control Limits and Evaluation

Quality Control Limits for reference materials and duplicate analyses are established according to the precision and accuracy requirements of the particular method. Data outside control limits are identified and investigated and require corrective actions to be taken. Quality control data is scrutinised at a number of levels. Each analyst is responsible for ensuring the data submitted is within control specifications. In addition, there are a number of other checks.

Certificate Approval

If any data for reference materials, duplicates, or blanks falls beyond the control limits established, it is automatically flagged red by the computer system for serious failures, and yellow for borderline results. The Department Manager(s) conducting the final review of the Certificate is thus made aware that a problem may exist with the data set.

Precision Specifications and Definitions

Most geochemical procedures are specified to have a precision of $\pm 10\%$, and assay procedures $\pm 5\%$. The precision of Au analyses is dominated by the sampling precision.

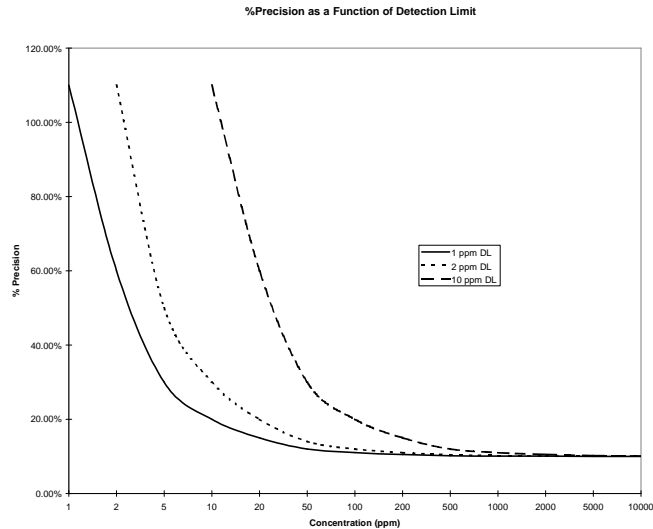
Precision can be expressed as a function of concentration:

$$P_c = \left(\frac{\text{DetectionLimit}}{c} + P \right) \times 100\%$$

- where P_c - the precision at concentration c
 c - concentration of the element
 P - the "Precision Factor" of the element. This is the precision of the method at very high concentrations, i.e. 0.05 for 5%.

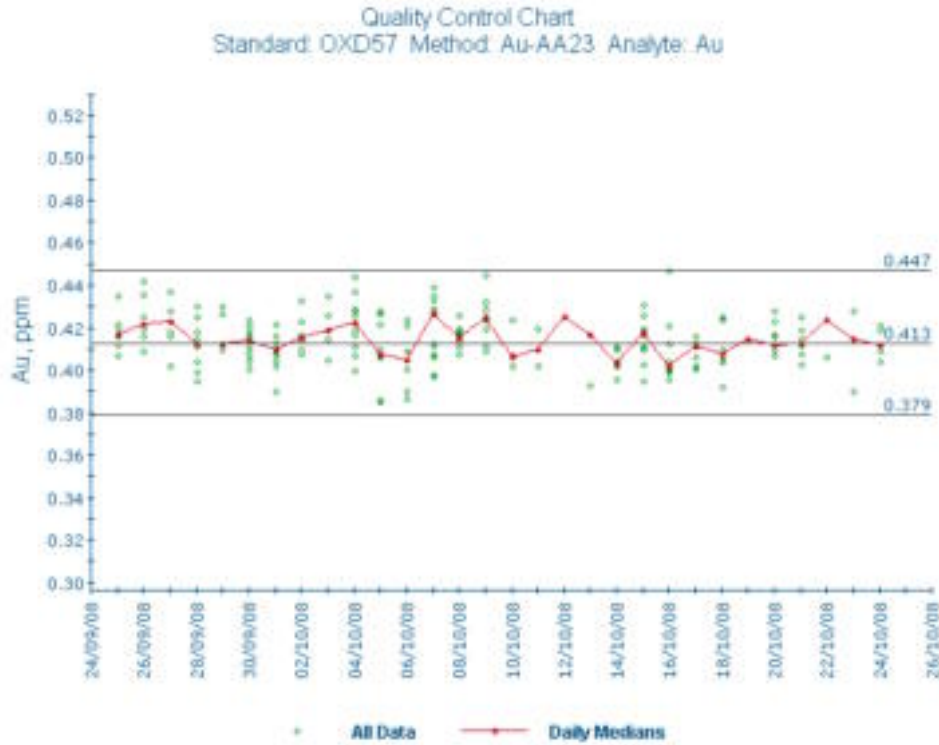
(M. Thompson, 1988. Variation of precision with concentration in an analytical system. Analyst, 113: 1579-1587.)

As an example, precision as a function of concentration (10% precision) is plotted for three different detection limits. The impact of detection limit on precision of results for low-level determinations can be dramatic.



Evaluation of Trends

Control charts for frequently used method codes are generated and evaluated by laboratory staff on a regular basis. The control charts are evaluated to ensure internal specifications for precision and accuracy are met. The data is also reviewed for any long-term trends and drifts.



External Proficiency Tests

Proficiency testing provides an independent assessment of laboratory performance by an outside agency. Test materials are regularly distributed to the participants and results are processed by a central agency. The results are usually converted to a Z-Score to rate the laboratory's result against the consensus value from all participating labs.

All ALS Minerals analytical facilities in North America participate in proficiency tests for the analytical procedures routinely done at each laboratory. ALS Minerals has participated for many years in proficiency tests organized by organizations such as Canadian Certified Reference Materials Projects, and Geostats as well as a number of independent studies organized by consultants for specific clients. We have participated also participated in several certification studies for new certified reference materials by CANMET and Rocklabs.

Feedback from these studies is invaluable in ensuring our continuing accuracy and validation of methods.

Quality Assurance Meetings

A review of quality assurance issues is held regularly at Technical and Quality Assurance Meetings. The meetings cover such topics as:

- Results of internal round robin exchanges, external proficiency tests and performance evaluation samples
- Monitoring of control charts for reference materials
- Review of quality system failures
- Incidents raised by clients
- Results of internal quality audits
- Other quality assurance issues

The Quality Assurance Department and senior laboratory management participate in these meetings.

APPENDIX XII

PROJECT QA/QC PROGRAM

List of Core-Handling Staff

Geotechnicians:

**Devon Woods
Devon Derbyshire
Kieran MacKenzie**

Geologists:

**Dani Alldrick
Brian Willet**

Core-Cutters:

**Dwayne Dennis
Archie Hilbach**

Samplers:

**Devon Woods
Devon Derbyshire
Kieran MacKenzie**



12 SAMPLING METHOD AND APPROACH

“The first drill holes into the Main deposit were carried out nearly simultaneously by Esso Mining Company and SML in the summer of 1974, although within different areas of the deposit. The first two seasons of drilling were experimental, with relatively wide-spaced drill holes used to determine approximate extents of the mineralization. In 1976, SML carried out a chargeability geophysical survey, which provided clear indications of the size of the conductive mineralization, as well as indications of the Sumac deposit. Shortly thereafter both companies adopted a grid approach to the location of drill holes. A common grid for both companies was implemented later, with north-south grid lines spaced at 60 m. The 60 m spacing (as opposed to the more common 50 m) was chosen as it allowed for four subdivisions (if required) and better approximated the 100 and 200 foot line spacing used by EMC for initial soil geochemical surveys. Consequently, almost 90% of the drill holes within the Main deposit are located along the grid lines. Similar approaches were applied to the Sumac and Esso deposits.

In 2004, initial large diameter (HQ) core drilling in the Main deposit was carried out by WKM to verify historical data and to obtain metallurgical samples. The approach to drill hole locations for this program was to obtain a distribution of drill holes covering the entire deposit area, with specific drill hole locations placed where they would result in infilling areas of lower drill hole density. Because the HQ drill was a skid-mounted rig, drill hole locations were restricted to areas accessible to such a rig with minimal road building. The 2006 drilling program on the Main Zone was designed to infill the starter pit area on approximate 30 m centres.

Sampling methods for drill core were similar for all of the exploration phases on the property. Core size varied (as discussed in earlier sections) and sampling of the core using a mechanical splitter was initially used by both SML and EMC, with SML switching to a diamond saw after the first nine drill holes, and EMC switching after approximately 30 drill holes. Splitting by diamond saw has been used ever since. Sample selection within mineralized drill core is more significant, and is discussed in detail in the following section.” (Wardrop, 2007)

In 2008, large diameter (HQ) core drilling in the Main zone was carried out by Capstone to infill gaps in previous drilling, verify historical data, obtain metallurgical samples and collect detailed geotechnical data. Drill holes covered the entire deposit area, with specific drill hole locations placed where they would result in infilling areas of lower drill hole density. The drilling was helicopter supported, facilitating access to collar locations not possible during past programs. A total of 9,897.7m was drilled in 81 holes (78 holes for the Main Zone including 3 holes totalling 69.2m which were lost before intersecting the ore zone). In 2010, Capstone drilled the Esso zone to increase drill hole density and confirm extents of the zone. Metallurgical samples of half core (NQ), assay samples of quarter core, bulk density measurements plus geotechnical and geological core logging were completed. Core in the zone was NQ sized; HQ core drilling was done on the upper portion of the holes to roughly 200m deep for extra control in intercepting chosen targets at depth. Helicopter support was used for the drill program, again facilitating access to collar locations not possible in previous ground-support only programs. Overall, 34 holes totalling



18,042.1m were drilled at the Esso Zone, including 5 holes totalling 1,324.3m which were abandoned above the zone when it became apparent the hole could not hit the appropriate target at depth.



13 SAMPLE PREPARATION, ANALYSES AND SECURITY

13.1 2008 DRILL PROGRAM

In 2008, the mineralized intervals in core were sampled in lengths ranging from 30 cm to 1.5m, averaging 1-1.5 m. The sampling intervals are typically 1.5 m in mineralized material and may be as long as 3 m where waste intervals between mineralized zones occur. Two shoulder samples were taken in waste at both upper and lower contacts, consisting of a 1.5 m sample and a 1.0 m sample. Samples do not cross geological contacts.

The samples are tagged and then split in half using a rock saw on site. Half of the core was selected for metallurgical testing. The remaining half core is cut into two quarters. One quarter cut of the core is placed into plastic sample bags and heat sealed. Sample bags, typically 6 to 10, are then packaged into rice bags with security zip seals and sent to Terrace, BC, Canada for assaying. The sample submittal was dispatched from the site via air charter to Dease Lake, BC, Canada and by Canadian Freightways overland to Terrace. The remaining quarter core was returned to the original boxes and remains on site as a record of the hole.

Prior to submission for assay, the specific gravity of each quarter cut sample was measured. In non-mineralized, un-sampled intervals, S.G was measured approximately every 10 meters. Specific gravities were measured in the field by weighing the sample using an Ohaus scale in air and in water, with the SG calculated using the formula:

$$\frac{\text{Weight in Air}}{(\text{Weight in Air}-\text{Weight in Water})}$$

Sample weights were accurate to the nearest tenth of a gram.

The core was photographed after the sample tags were stapled to the boxes at the down hole end of each sample. Sample tags for standards, blanks and duplicates were stapled to the box in the numerical order as inserted.

All Kutcho samples were processed and assayed at ALS Chemex (“Chemex”) in North Vancouver, Canada. Chemex has attained ISO 17025 accreditation by Standards Council of Canada for a number of specific test procedures including fire assay Au by AA, ICP and gravimetric finish, multi-element ICP and AA Assays for Ag, Cu, Pb, and Zn. In addition, Chemex is ISO 9001:2000 registered.

Core samples including blanks were ground to 80% passing 100 mesh. Analysis of core samples and standard reference materials included induced coupled plasma (ICP) methods for 33 elements following an aqua regia digestion. If either copper or zinc reports over 2500ppm (0.25%), ore grade analysis is conducted for copper, zinc and silver. The ore grade analysis included aqua regia digestion followed by atomic absorption spectroscopy.

A comprehensive QA-QC program was used for the 2008 drilling program, summarized below in the Tables 13-1 and 13-2. Two standards are inserted for every 20 samples, alternating between a blank and a standard reference material (“SRM”) with placement and type at the discretion of the



logging geologist. A minimum of one blank and SRM per drill hole was added. Within every 20 samples taken, a laboratory duplicate sample is added to the sample submittal. The laboratory duplicate alternated between a pulp duplicate sample and a coarse reject duplicate sample as selected by the core logger. A comparison between the original assay values and the coarse reject duplicates along with the pulp reject duplicates was the final component of the QA-QC program.

The blank sample material, approximately 100 to 500g of crushed limestone or felsic rock was purchased from a landscaping supply company. Of the 77 blanks submitted, 5 failed for the copper analysis. Two failures were attributed to core logging errors (incorrect sample type recorded in drill logs) and were resolved after investigation and submission of replacement samples. Three failures were attributed to contamination during the lab's sample processing.

A variety of SRM across the typical grade ranges, as summarized in the table below, were utilized to monitor accuracy of results from the assay laboratory. The grade ranges reflect the span of grades through the deposit and also parallel values which may be significant to the future operational plans such as a head grade targets, cut-off grade determinations or recovery issues.

Table 13-1 Reference Standards Used in QA/QC Programs

STANDARD	Mean Grade of Certified Elements				
	Cu	Zn	Ag	Au	Pb
CDN-FCM-3*	0.29 +/-0.02 %	0.54 +/-0.03 %	23.6 +/-3.3 g/t	0.40 +/-0.07 g/t	0.15 +/-0.01 %
CDN-ME-2**	0.48+/-0.018%	1.35 +/- 0.10 %	14.0 +/- 1.3 g/t	2.10 +/- 0.11 g/t	
CDN-ME-6**	0.61+/-0.034%	0.517+/-0.04 %	101 +/- 7.1 g/t	0.27 +/- 0.028 g/t	1.02 +/- 0.08 %
CDN-HZ-3**	0.61 +/- 0.03%	3.16 +/- 0.16 %	27.3 +/- 3.2 g/t	0.055 +/- 0.010 g/t	0.707+/-0.036%
CDN-HZ-2	1.36 +/-0.26%	7.2 +/-0.35 %	61.1 +/-4.1 g/t	0.124 +/-0.024 g/t	1.62 +/-0.11%
CDN-HC-2	4.63 +/-0.26 %	0.259 +/-0.14%	15.3 +/- 1.4 g/t	1.67 +/- 0.12 g/t	0.48+/-0.04%
CDN-HLHC	5.07 +/-0.27 %	2.35 +/-0.11 %	111.0 +/-8.6 g/t	1.97 +/-0.22 g/t	0.17 +/-0.01 %
CDN-HLLC	1.49 +/-0.06 %	3.01 +/-0.17 %	65.1 +/-6.7 g/t	0.83 +/-0.12 g/t	0.29 +/-0.03 %

Source for above: CDN Resource Labs, Delta BC. "HL" SRM are High Lake VMS deposit material. FCM are Campo Morado VMS material. HC and HZ SRM are derived from VMS deposit material. ME are Lookout, Niblack VMS material.
 *2008 use only **2010 use only

Behaviour of the blanks and SRM was monitored as data returns from the lab. If more than 2 control samples in a work order returned unacceptable values, the entire work order was rerun. If 2 or fewer control samples fail, the 20 samples in the analytical batch are rerun. In the case of a blank fail, samples and the control were reprocessed from coarse reject material.



Table 13-2 2008 & 2010 Kutcho Project Quality Control Data

		2008		2010	
Total Samples Collected		2,973		1,171	
SRM Used	HLLC	34	HL-L	4	
	HLHC	22	HL-H	7	
	HC-2	26	HC-2	10	
	HZ-2	28	HZ-2	18	
	FMC-3	37	ME-2	19	
ME-6			13		
HZ-3			1		
Total SRM		147		72	
Blanks		77		60	
Paired Data	Coarse Reject Duplicate	72		44	
	Pulp Reject Replicate	72		47	
Total QC samples		368		223	
Frequency (percent)		12		19	
Umpire checks (percent)		2		3	

The laboratory duplicate samples were used to monitor natural variation in the sample material. The sample tag is stapled to the core box and marked with a “C” indicating a coarse reject duplicate or a “P” indicating a pulp duplicate. The core cutter placed the tags for the parent sample and the duplicate sample with the sawn material, labelling the bag with both sample numbers and the duplicate letter code. For increased confidence in the dataset, a comparison of analyses between labs was conducted. At the end of the drill program, 2% of the sample pulp rejects at Chemex were selected across a variety of grade ranges representative of the location and targets tested at the Kutcho Project. The pulp rejects were submitted to IPL Inspectorate in Vancouver, BC, with one SRM added to every 10 samples. All the samples were renumbered with new, sequential sample identifications. Identical analytical methods were used. The target for pulp samples analyzed at different labs should have a relative difference not exceeding 15% at the 90th percentile. For check samples in 2008, copper results had a relative difference of 12% for the 90% of the population, gold results had a relative difference of 15% for 71% of the population and zinc had a relative difference of 15% for 79% of the population. The level of precision is excellent for copper and acceptable for gold and zinc. Results were shown to be reproducible.

Sample quality was very good. Recovery of every drill run was recorded and typically exceeded 95% in mineralized zone. The samples were taken across the entire mineralized interval, with



sample boundaries respecting lithological contacts, VMS cycles and mineralization styles, including varying percentages of sulphide minerals. Higher grade intervals within low grade intersections were identified visually during core logging; the variations in mineralization were also respected during the sampling process. Two shoulder samples were added at both the up hole and down hole contacts to ensure the mineralization was fully sampled.

Samples taken from holes drilled at 180° azimuth and -45° inclination are representative of true width in the Kutcho Deposit.

In the author's opinion, the sampling, sample preparation, quality of security and analytical procedures used are adequate and suit the Kutcho deposit type and mineralization.

Performance of the copper blanks was acceptable. Two failures were found to be caused by sample data entry errors by the core logger and three failures were found to be caused by contamination from mineralized samples during processing at the lab. This was corrected and rectified by: 1) the core loggers were reminded to take care in recording sample types, 2) advising the lab of the contamination issue during the program and 3) re-communicating standard operating procedures to personnel at the lab.

Blank performance overall was acceptable for gold with very little suggestion of contamination from inadequate cleaning between samples during the crushing and pulverization stages. One failure was re-assayed from coarse reject material and returned marginal fail, suggesting the failure was due to inadequate cleaning between samples during the coarse crush. The lab was advised of the two failures and subsequently reminded staff of protocols for cleaning between samples. The blank had also failed for copper; the copper reanalysis from coarse reject was acceptable. A marginal failure after a high grade interval was not re-assayed.

Blank performance for silver was acceptable, with very little between-sample contamination evident.

Performance of the SRMS across all grade ranges was acceptable; the SRMS did show periods of slight bias both above and below the mean for was within acceptable standards.

Reproducibility of copper and silver results in duplicate samples prepared from coarse reject materials was excellent. Reproducibility of gold results in duplicate samples prepared from coarse reject materials was excellent up to 1.5 g/t Au; higher results may not be as reproducible. This characteristic is likely due to inherent properties of the Kutcho deposit. The nugget nature of gold makes it difficult to reproduce results at the higher grade ranges.

Reproducibility of copper and silver results in duplicate samples prepared from pulp reject material was very good.

Reproducibility of gold results in pulp duplicates was acceptable. The reproducibility is excellent below 0.6 g/t Au and fair in higher grade ranges. The sample preparation is sufficiently homogenizing pulp material.



For additional information regarding performance of quality control samples in 2008 please refer to “*Preliminary Economic Assessment Revised Mining Option Kutcho Project British Columbia*”, JDS Mining and Energy, July 2010.

13.2 2010 DRILL PROGRAM

In 2010, mineralized intervals in core were sampled in lengths ranging from 20cm to 1.5m, averaging 1-1.5 m. The sampling intervals are typically 1.5 m in mineralized material and may be as long as 3 m where waste intervals between mineralized zones occur. Two shoulder samples were taken in waste at both upper and lower contacts, consisting of a 1.5 m sample and a 1.0 m sample. Samples do not cross geological contacts.

The samples are tagged and then split in half using a rock saw on site. Half of the core was selected for metallurgical testing. The remaining half core is cut into two quarters. One quarter cut of the core is placed into plastic sample bags and heat sealed. Sample bags, typically 6 to 10, are then packaged into rice bags with security zip seals and sent to Terrace, BC, Canada for sample preparation. The sample submittal was dispatched from the site via air charter to Smithers, BC, and Canada and by Canadian Freightways overland to Terrace. The remaining quarter core was returned to the original boxes and remains on site as a record of the hole.

Prior to submission for assay, the specific gravity of each quarter cut sample was measured. Specific gravities were measured in the field by weighing the sample using an Ohaus scale in air and in water, with the SG calculated using the formula:

$$\frac{\text{Weight in Air}}{(\text{Weight in Air} - \text{Weight in Water})}$$

Sample weights were accurate to the nearest tenth of a gram.

The core was photographed after the sample tags were stapled to the boxes at the down hole end of each sample. Sample tags for standards, blanks and duplicates were stapled to the box in the numerical order as inserted.

All Kutcho samples were assayed at ALS Chemex (“Chemex”) in North Vancouver, Canada after preparation at the Terrace facility. Chemex has attained ISO 17025 accreditation by Standards Council of Canada for a number of specific test procedures including fire assay Au by AA, ICP and gravimetric finish, multi-element ICP and AA Assays for Ag, Cu, Pb, and Zn. In addition, Chemex is ISO 9001:2000 registered.

The core samples and blanks submitted to Chemex were first crushed in a jaw crusher to reduce the material to greater than 70% -10 mesh (2 mm) with a 250 g subsample split and pulverized to better than 85% passing -75µm. Analysis of core samples and standard reference materials included induced coupled plasma (ICP) methods for copper, silver, zinc and lead following an aqua regia digestion. If either copper or zinc reports over 2500ppm (0.25%), ore grade analysis is conducted for copper, zinc and silver. The ore grade analysis included aqua regia digestion



followed by atomic absorption spectroscopy. Gold was determined using a fire assay procedure on a thirty grams sub-sample with atomic absorption spectroscopy finish.

The QA-QC program initiated in 2008 was again used for the 2010 drilling program, summarized above in Tables 13-1 and 13-2. Two standards are inserted for every 20 samples, alternating between a blank and a standard reference material (“SRM”) with placement and type at the discretion of the logging geologist. A minimum of one blank and SRM per drill hole was added. Within every 20 samples taken, a laboratory duplicate sample is added to the sample submittal. The laboratory duplicate alternated between a pulp duplicate sample and a coarse reject duplicate sample as selected by the core logger.

The blank sample material, approximately 100 to 500g of crushed limestone, was purchased from a landscaping supply company. A variety of SRM across the typical grade ranges, as summarized in table 13.1, were utilized to monitor accuracy of results from the assay laboratory. The grade ranges reflect the span of grades through the deposit and also parallel values which may be significant to the future operational plans such as a head grade targets, cut-off grade determinations or recovery issues.

Behaviour of the blanks and SRM was monitored as data was received from the lab. If more than 2 control samples in a work order within mineralized batches returned unacceptable values, the entire work order was rerun. If 2 or fewer control samples fail, the 20 samples in the analytical batch are rerun. In the case of a blank fail, samples and the control were reprocessed from coarse reject material.

The laboratory duplicate samples were used to monitor natural variation in the sample material. The sample tag is stapled to the core box and marked with a “C” indicating a coarse reject duplicate or a “P” indicating a pulp duplicate. The core cutter placed the tags for the parent sample and the duplicate sample with the sawn material, labelling the bag with both sample numbers and the duplicate letter code.

For increased confidence in the dataset, a comparison of analyses between labs is in progress. At the end of the drill program, 3% of the sample pulp rejects at Chemex were selected across a variety of grade ranges in the Esso zone. The pulp rejects were submitted to IPL Inspectorate in Vancouver, BC, with one SRM added every 15 samples. All the samples were renumbered with new, sequential sample identifications. Identical analytical methods were used. Results for the check analysis are outstanding at the time of this report.

Sample quality was very good. Recovery of every drill run was recorded and typically exceeded 90-95% in the mineralized zone. The samples were taken across the entire mineralized interval, with sample boundaries respecting lithological contacts, VMS cycles and mineralization styles, including varying percentages of sulphide minerals. Higher grade intervals within low grade intersections were identified visually during core logging; the variations in mineralization were

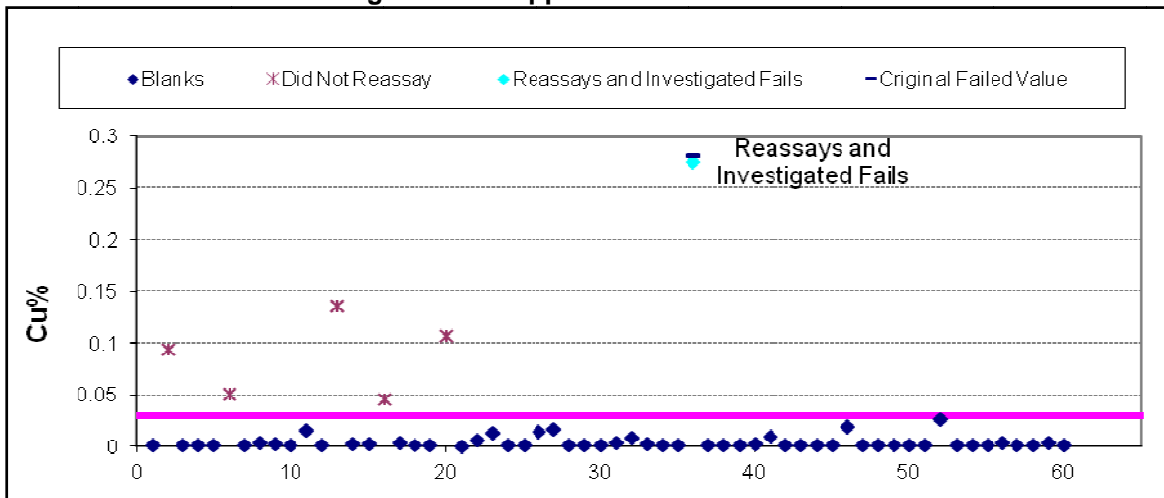


also respected during the sampling process. Two shoulder samples were added at both the up hole and downhole contacts to ensure the mineralization was fully sampled.

Samples taken from holes drilled at 180° azimuth and -45° inclination are representative of true width in the Esso Deposit.

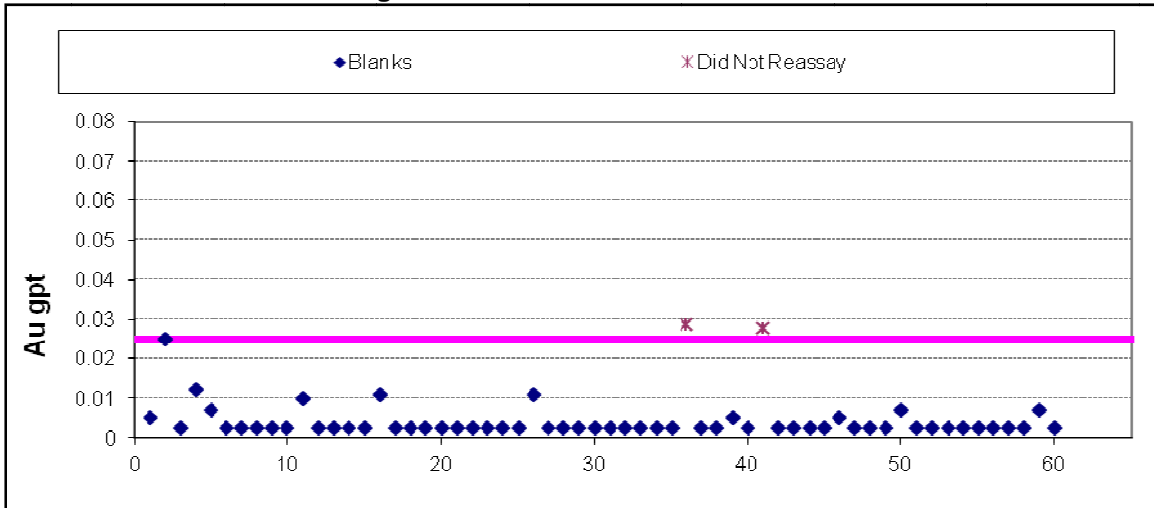
In the author's opinion, the sampling, sample preparation, quality of security and analytical procedures used are adequate and suit the Esso deposit type and mineralization.

Figure 13-1 Copper Blank Performance



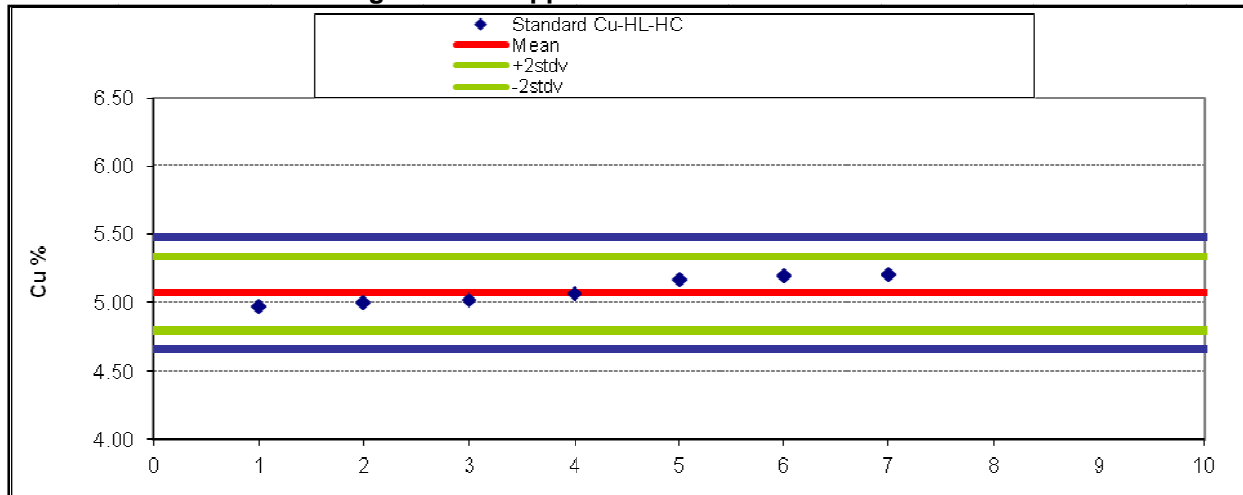
Blank performance for copper was excellent (Figure 13-1). Five values exceeding the blank warning performance gate were not reanalyzed; the results were attributed to minor contamination after very high grade samples exceeding 4% copper. One failure was reanalyzed and returned a similar value, indicating the contamination occurred at the coarse crush stage of sample preparation after an 8% copper sample. These instances of contamination are not considered systematic, however, as there were many other very high samples submitted with well-performing blanks. The lab was notified of the instances and consequently reminded workers to take care during sample preparation, following all standard operating procedures.

Figure 13-2 Gold Blank Performance



Blank performance for gold shown in Figure 13-2 was excellent. Two values marginally exceeded the blank warning performance gate and were not reassayed. Note that one of the two marginal fails is the same sample reassayed for a copper blank failure.

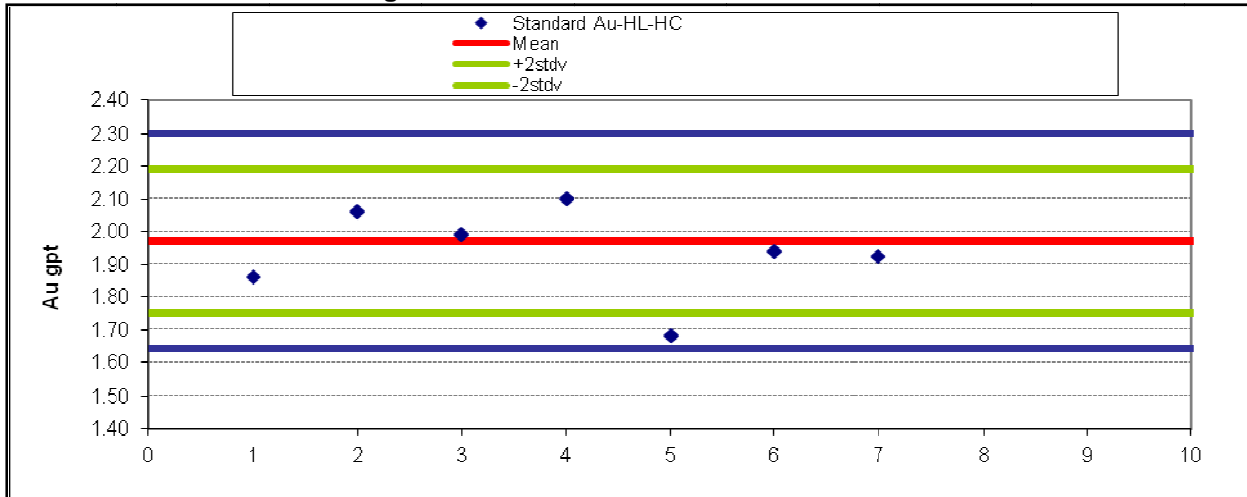
Figure 13-3 Copper SRM HL-HC Performance



Performance of SRM HL-HC (Figure 13-3) was excellent for copper. Periods of slight bias both above and below the mean exist for copper but are within acceptable limits.

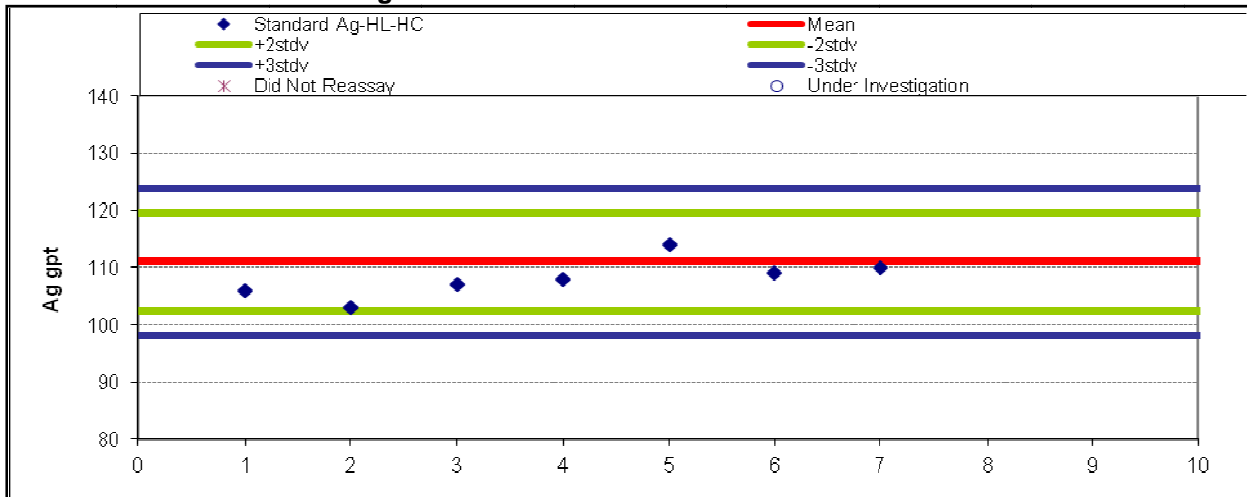


Figure 13-4 Gold SRM HL-HC Performance



Performance of SRM HL-HC shown in Figure 13-4 was excellent for gold; values are distributed about the mean.

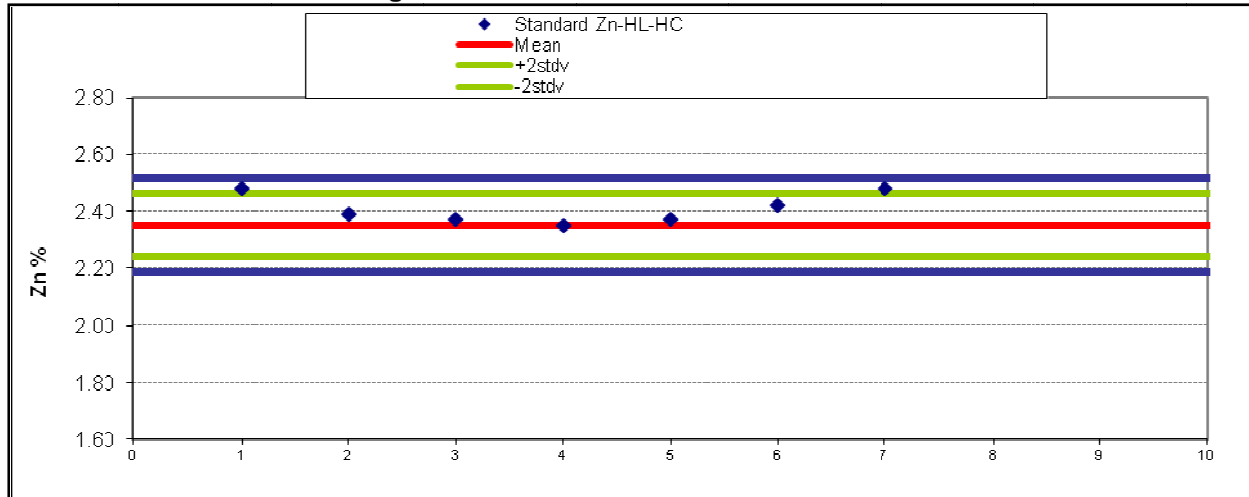
Figure 13-5 Silver SRM HL-HC Performance



Performance of SRM HL-HC (Figure 13-5) was excellent for silver. Silver values are biased slightly below the mean, within acceptable limits.

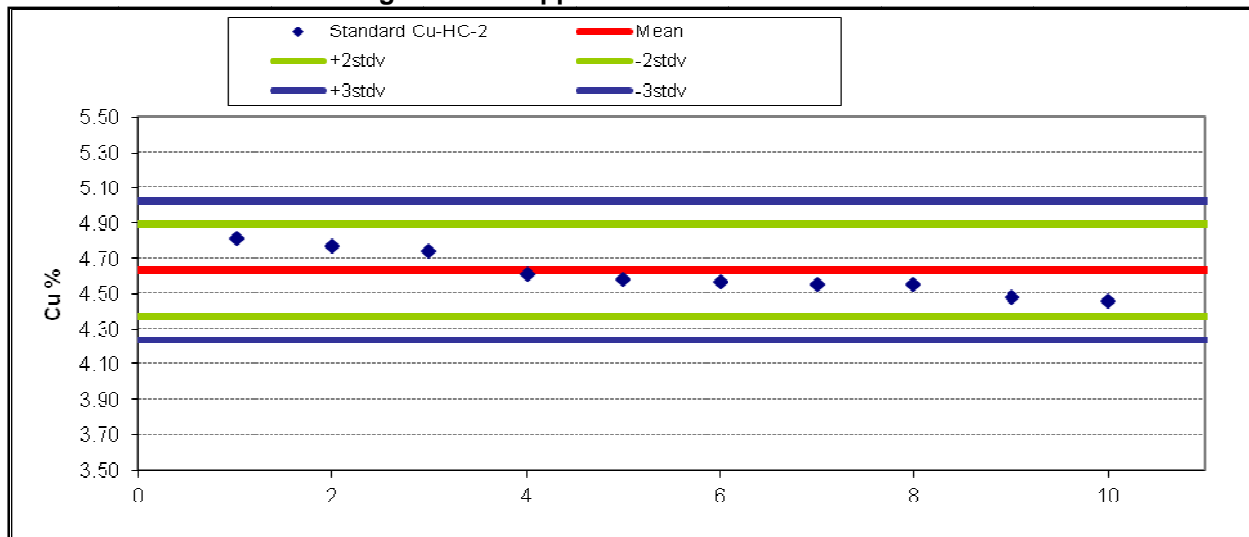


Figure 13-6 Zinc SRM HL-HC Performance



Performance of SRM HL-HC (Figure 13-6) was excellent for zinc. Zinc values are biased slightly above the mean, within acceptable limits.

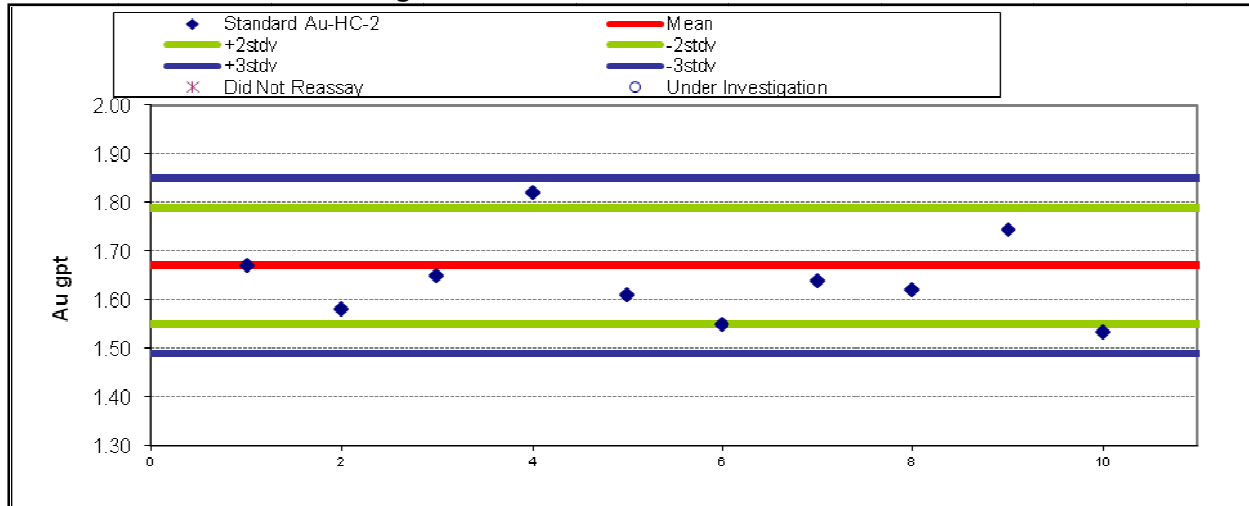
Figure 13-7 Copper SRM HC-2 Performance



Performance of SRM HC-2 (Figure 13-7) was excellent for copper. Copper values exhibited a slight bias below the mean through most of the drill campaign; however the bias was within acceptable limits.

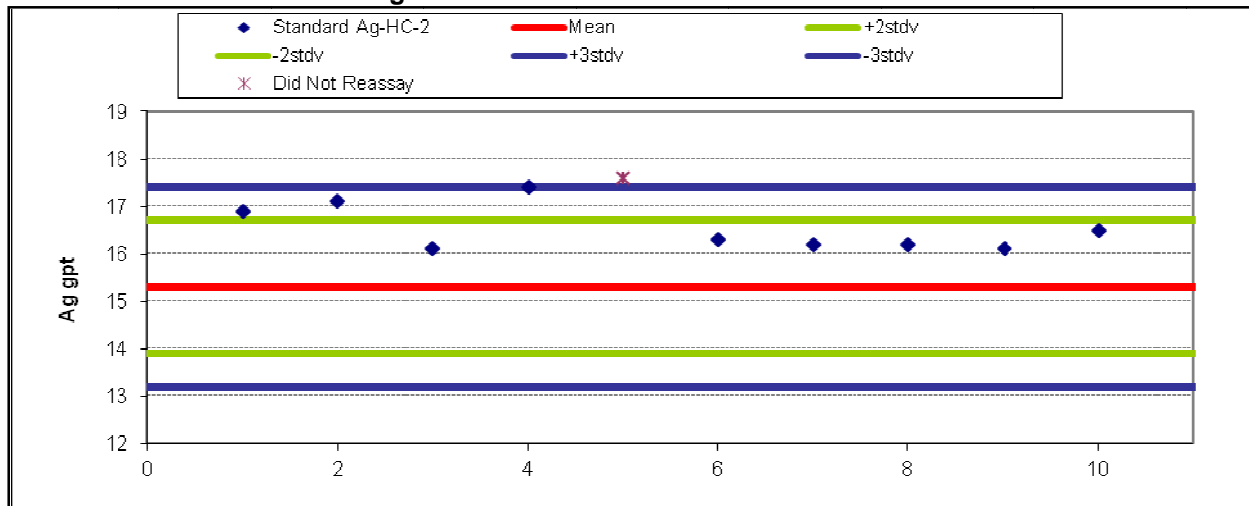


Figure 13-8 Gold SRM HC-2 Performance



Performance of SRM HC-2 (Figure 13-8) was excellent for gold. Gold values exhibited a slight bias below the mean through most of the drill campaign; however the bias was within acceptable limits.

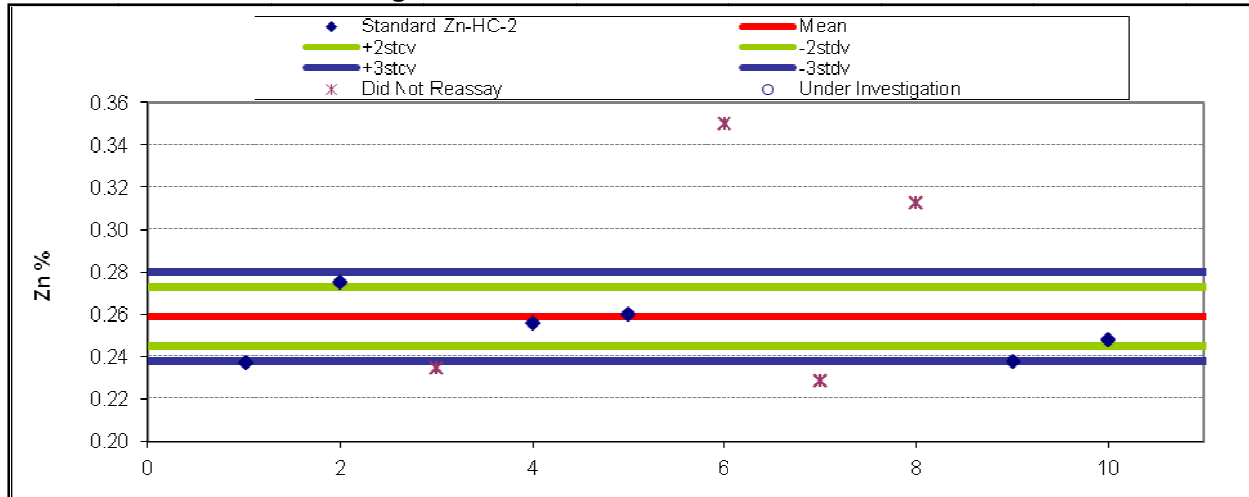
Figure 13-9 Silver SRM HC-2 Performance



Performance of SRM HC-2 (Figure 13-9) was acceptable for silver. One marginal fail just outside the three standard deviations above the mean was not reanalyzed. The SRM exhibited consistent bias above the mean within acceptable limits.



Figure 13-10 Zinc SRM HC-2 Performance



Performance of SRM HC-2 (Figure 13-10) for zinc was acceptable overall. Four failures outside of three standard deviations from the mean occurred, two above and two below. Two marginal fails just at the lower performance gate were not reassayed. Two remaining failures were not reassayed as the analytical batch contained an additional SRM better suited the high grade zinc values of the core samples. Values are well distributed about the mean; no bias is apparent.

Performance of SRM HL-LC was excellent for copper, gold, silver and zinc as shown in Figures 13-11 to 13-14. Values for copper, gold and zinc are distributed about the mean. Bias above the mean, within acceptable limits, is shown in the silver chart.



Figure 13-11 Copper SRM HL-LC Performance

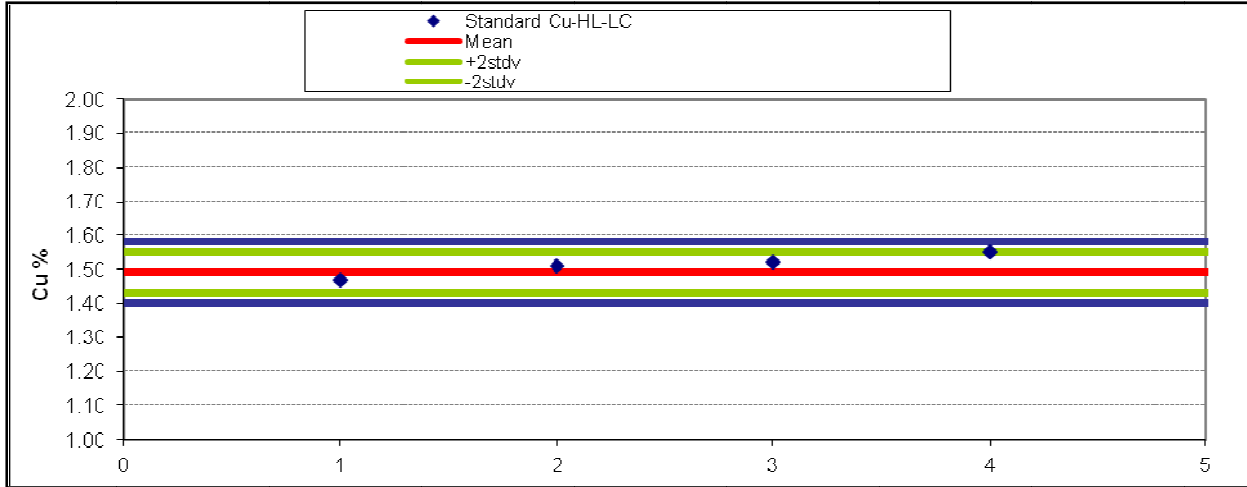


Figure 13-12 Gold SRM HL-LC Performance

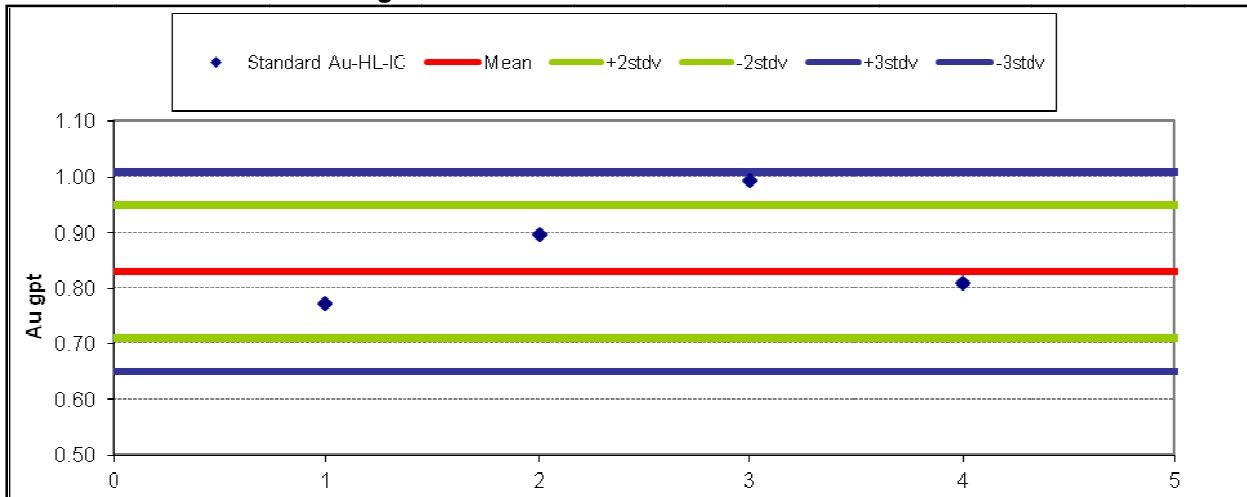




Figure 13-13 Silver SRM HL-LC Performance

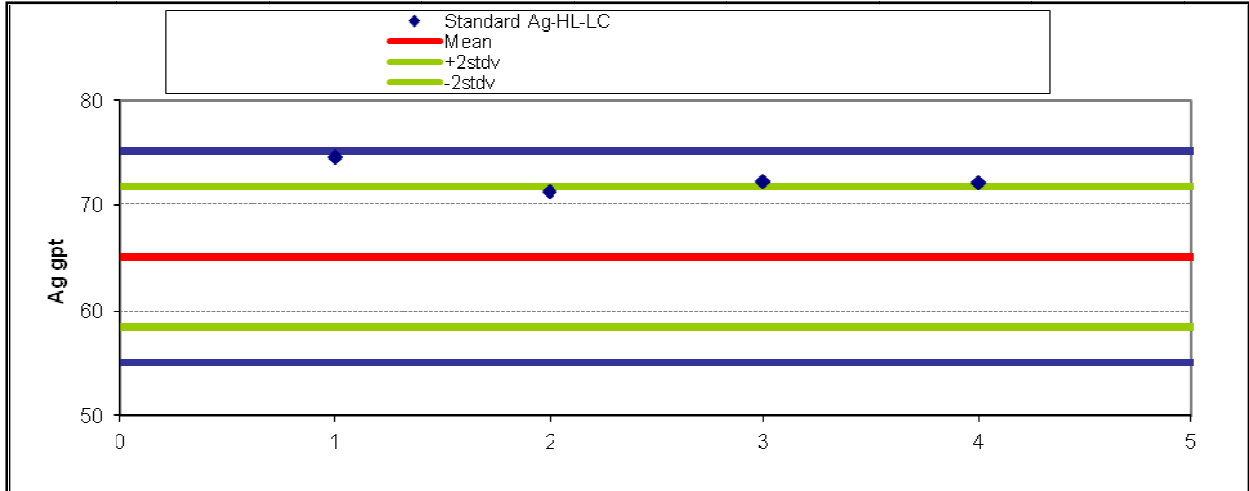


Figure 13-14 Zinc SRM HL-LC Performance

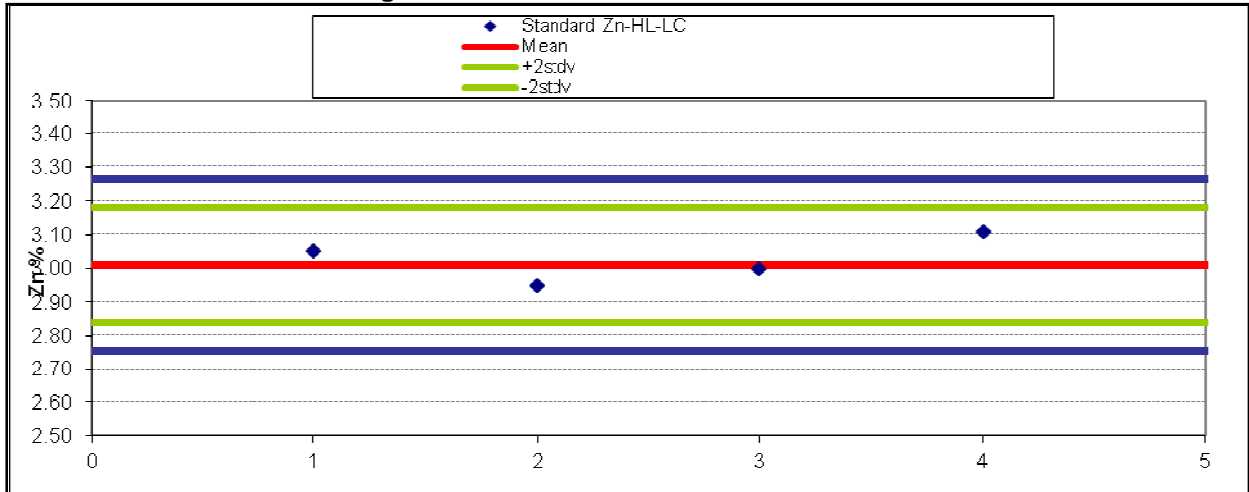
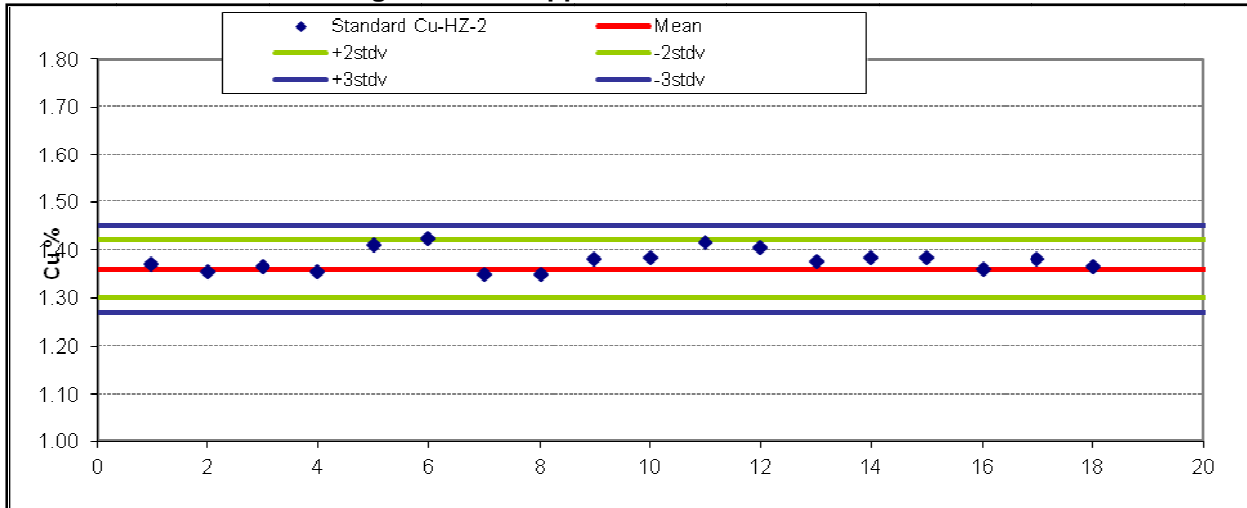


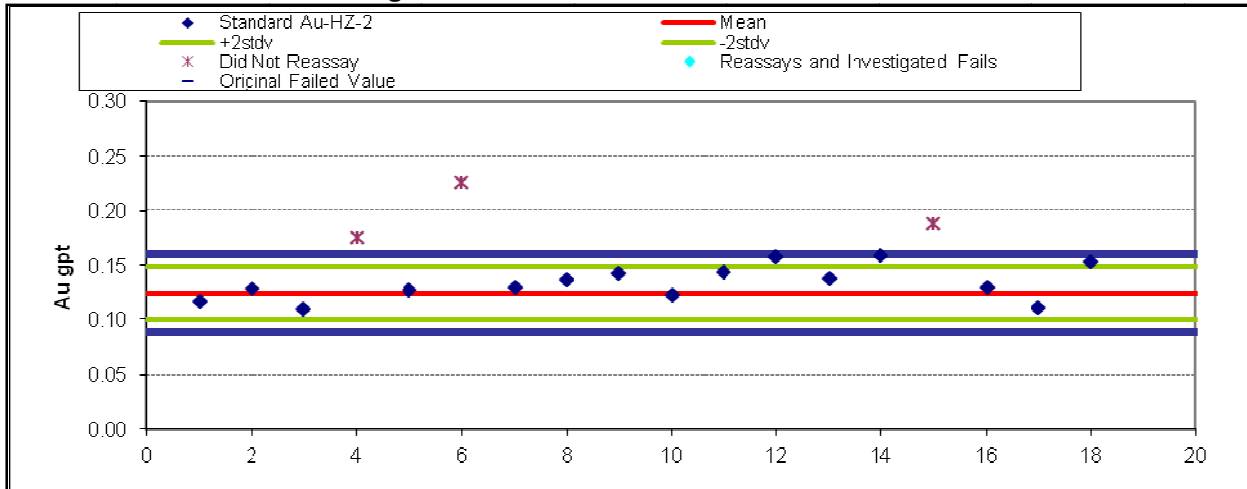


Figure 13-15 Copper SRM HZ-2 Performance



Performance of SRM HZ-2 (Figure 13-15) was excellent for copper. Weak bias above the mean, within acceptable limits, was exhibited through most of the drill program.

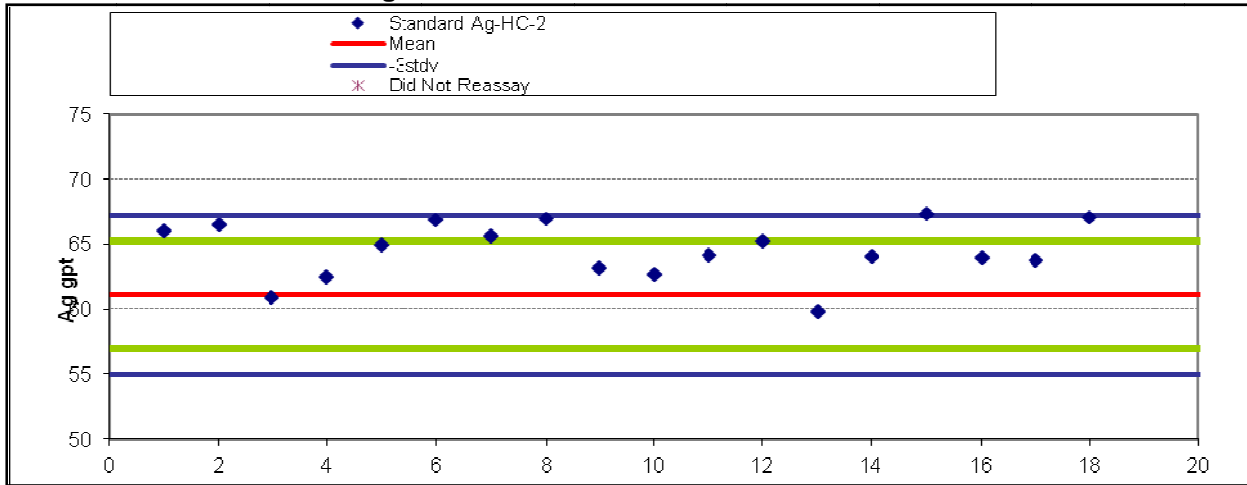
Figure 13-16 Gold SRM HZ-2 Performance



Performance of SRM HZ-2 (Figure 13-16) was very good for gold. Three marginal failures above the mean were not reassayed. Weak bias above the mean, within acceptable limits, was seen throughout the drill program.

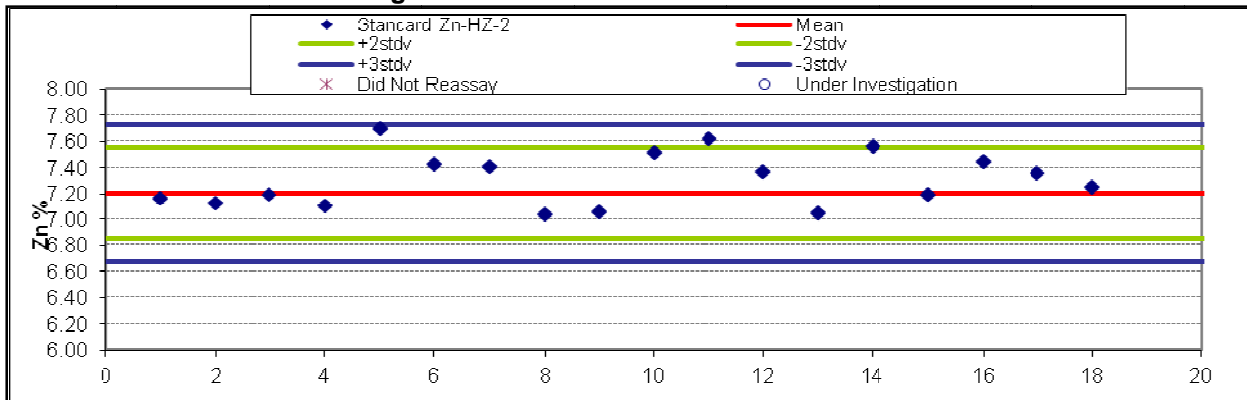


Figure 13-17 Silver SRM HZ-2 Performance



Performance of SRM HZ-2 (Figure 13-17) was excellent for silver, although consistent weak bias above the mean, within acceptable limits, was seen throughout the drill program.

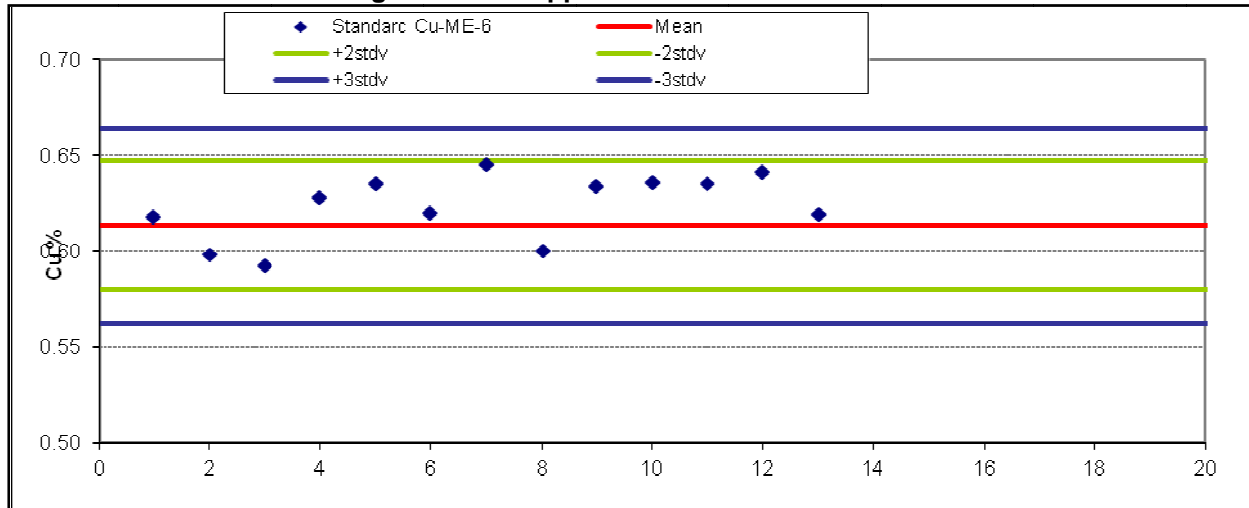
Figure 13-18 Zinc SRM HZ-2 Performance



Performance of SRM HZ-2 (Figure 13-18) was nearly perfect for zinc. Sporadic weak bias above the mean, within acceptable limits, is evident on the chart.

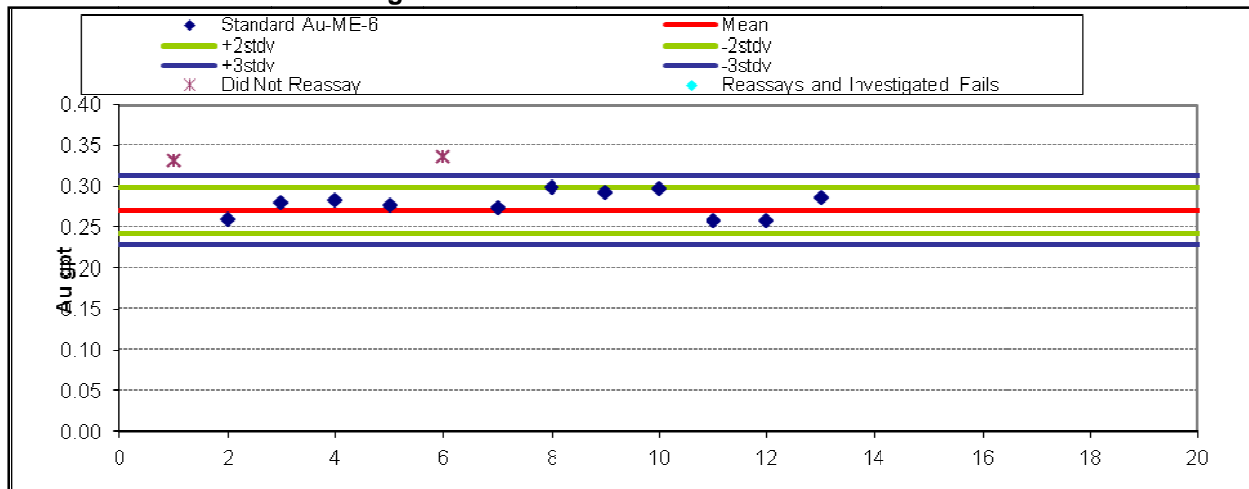


Figure 13-19 Copper SRM ME-6 Performance



Performance of SRM ME-6 (Figure 13-19) is excellent for copper, with the exception of weak (within acceptable limits), above-mean bias for the majority of the drill program.

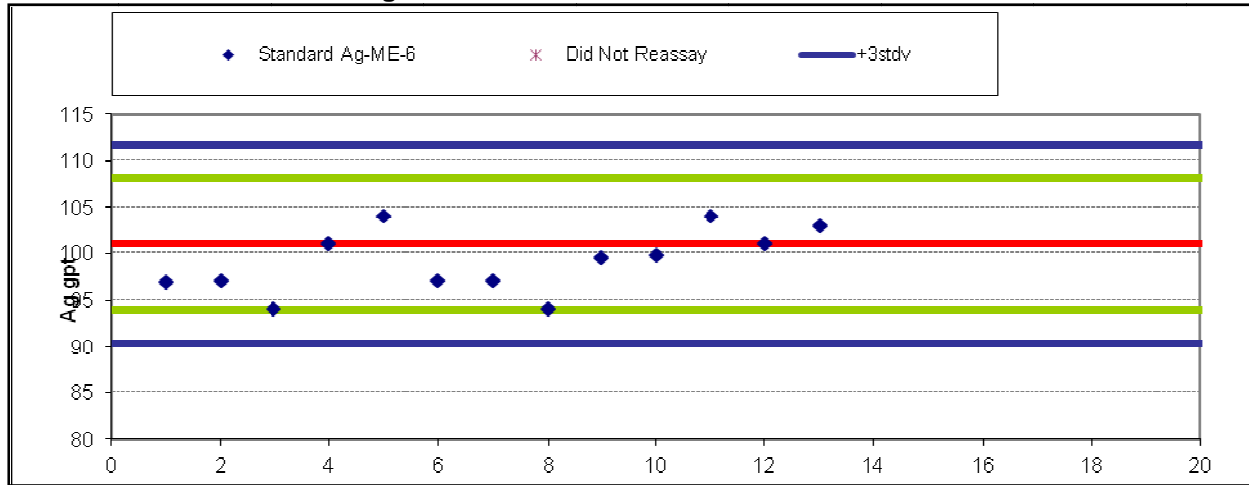
Figure 13-20 Gold SRM ME-6 Performance



Performance of SRM ME-6 (Figure 13-20) for gold was very good. Two marginal fails close to the three standard deviations above the mean were not reanalyzed. In both cases, the batches containing the inserted SRM were outside of the main Esso zone and were not integrated into the resource calculation.

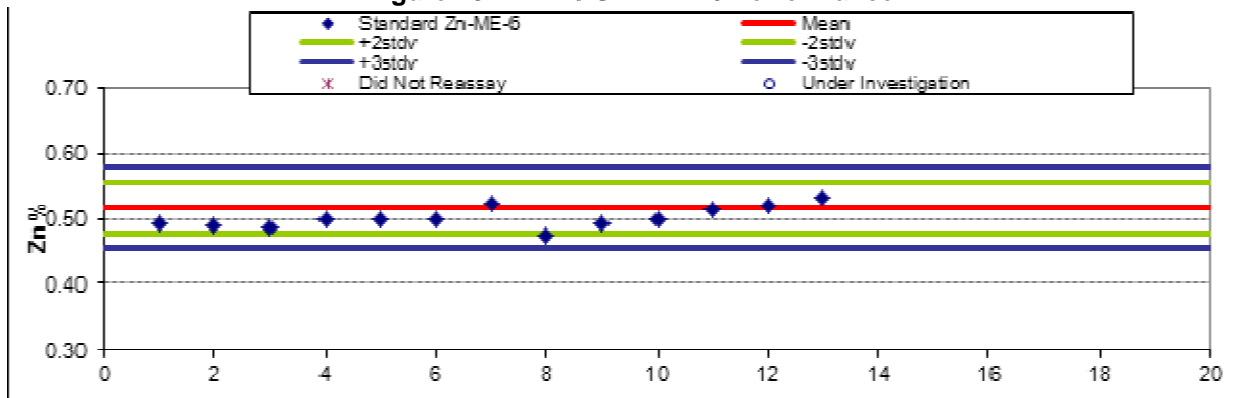


Figure 13-21 Silver SRM ME-6 Performance



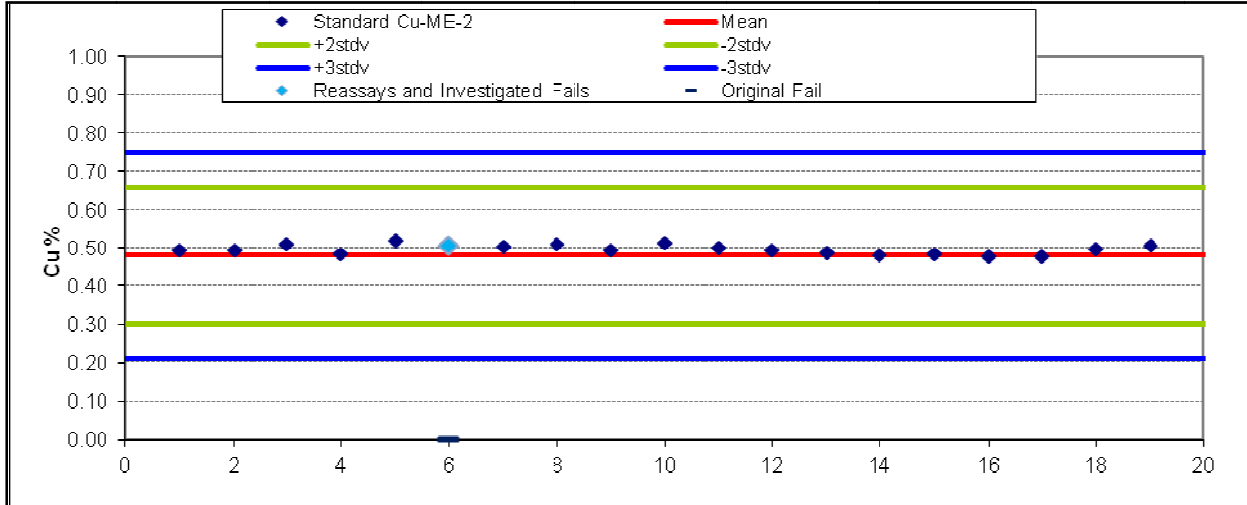
Performance of the SRM ME-6 (Figure 13-21) for silver was excellent. Weak bias below the mean, within acceptable limits, was seen throughout the drill program.

Figure 13-22 Zinc SRM ME-6 Performance



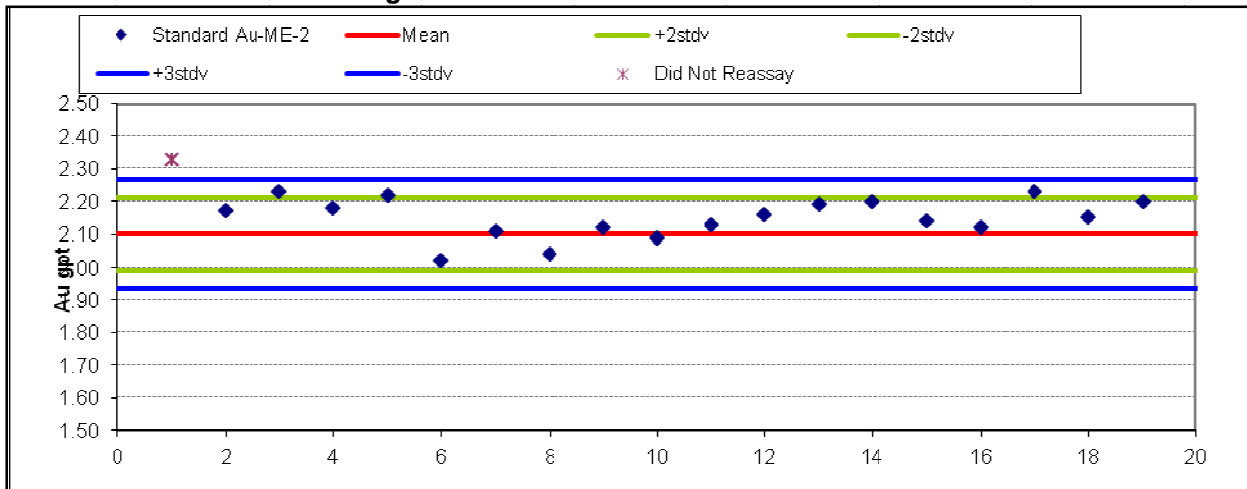
Performance of SRM ME-6 (Figure 13-22) for zinc was perfect, marred only by a very slight below-mean bias throughout the drill program. The bias was within acceptable limits.

Figure 13-23 Copper SRM ME-2 Performance



Performance of SRM ME-2 (Figure 13-23) for copper was excellent, with all final values clustered at the mean. A batch of 20 samples containing the single failure passed upon reanalysis. Investigation of the failure revealed an isolated error where the instrument skipped 4 samples in the batch, affecting the copper, silver and zinc results. The ALS Chemex quality analyst followed up with the laboratory team regarding data review processes to ensure the error is not repeated.

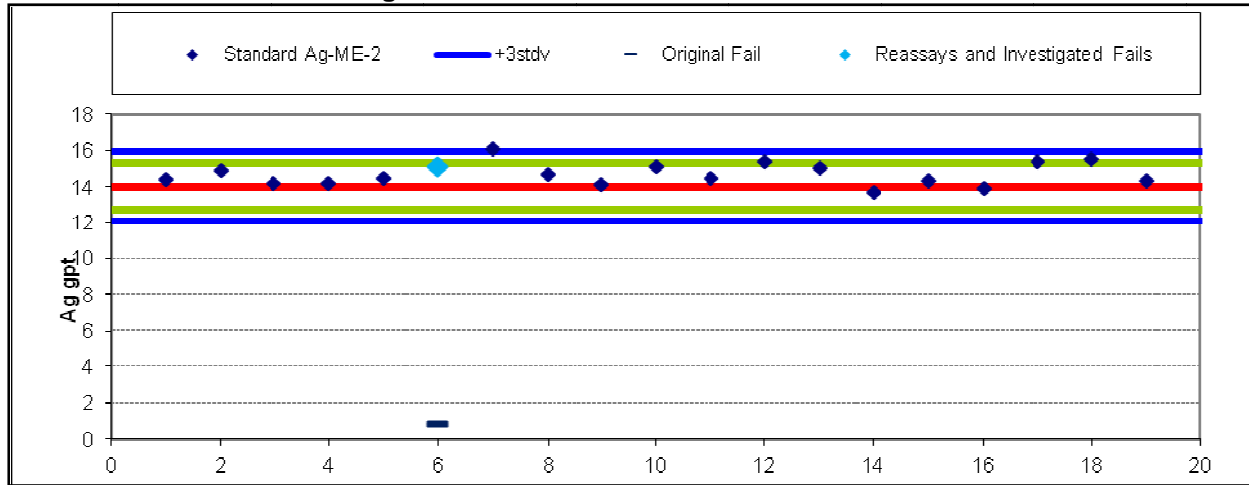
Figure 13-24 Gold SRM ME-2 Performance



Performance of the SRM ME-2 (Figure 13-24) for gold was very good. One marginally high failure occurred just outside the three standard deviation above the mean performance gate was not reanalyzed. A slight high bias within acceptable limits was seen through most of the drill program.

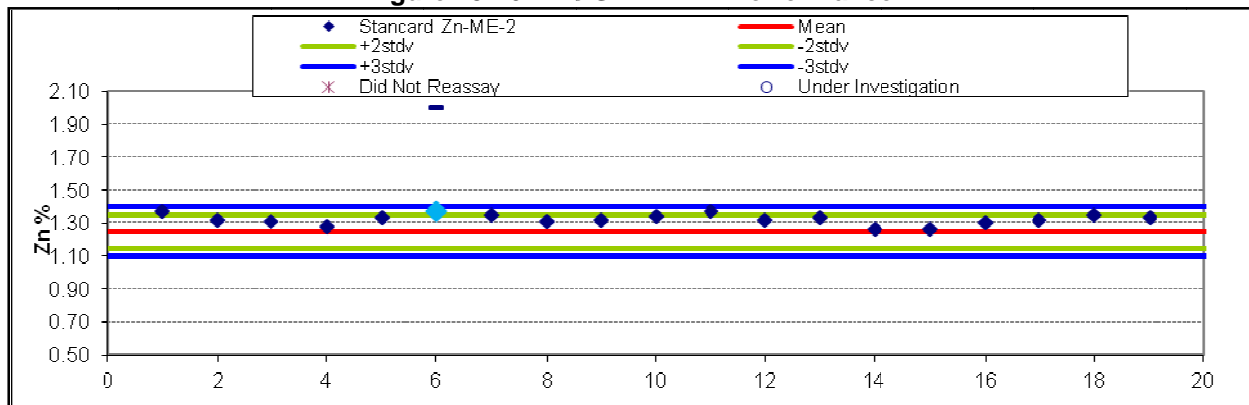


Figure 13-25 Silver SRM ME-2 Performance



Performance of the SRM ME-2 (Figure 13-25) for silver was excellent, showing a slight high bias within acceptable limits. A batch of 20 samples containing the single failure passed upon reanalysis; the sample also failed for copper and zinc. The failure was attributed to the analytical instrument bypassing 4 samples in the batch. The ALS Chemex quality analyst followed up with the laboratory team regarding data review processes to ensure the error is not repeated.

Figure 13-26 Zinc SRM ME-2 Performance



Performance of the SRM ME-2 as shown in Figure 13-26 for zinc was excellent; a consistent high bias within the acceptable limits occurred through the entire drill program. A single failed value was corrected upon reanalysis of a batch of 20 samples (the SRM also failed for copper and silver). Investigation into the failure revealed the analytical instrument had skipped 4 samples in the batch; ALS Chemex internal data review processes were reviewed with lab staff to ensure the error did not recur.

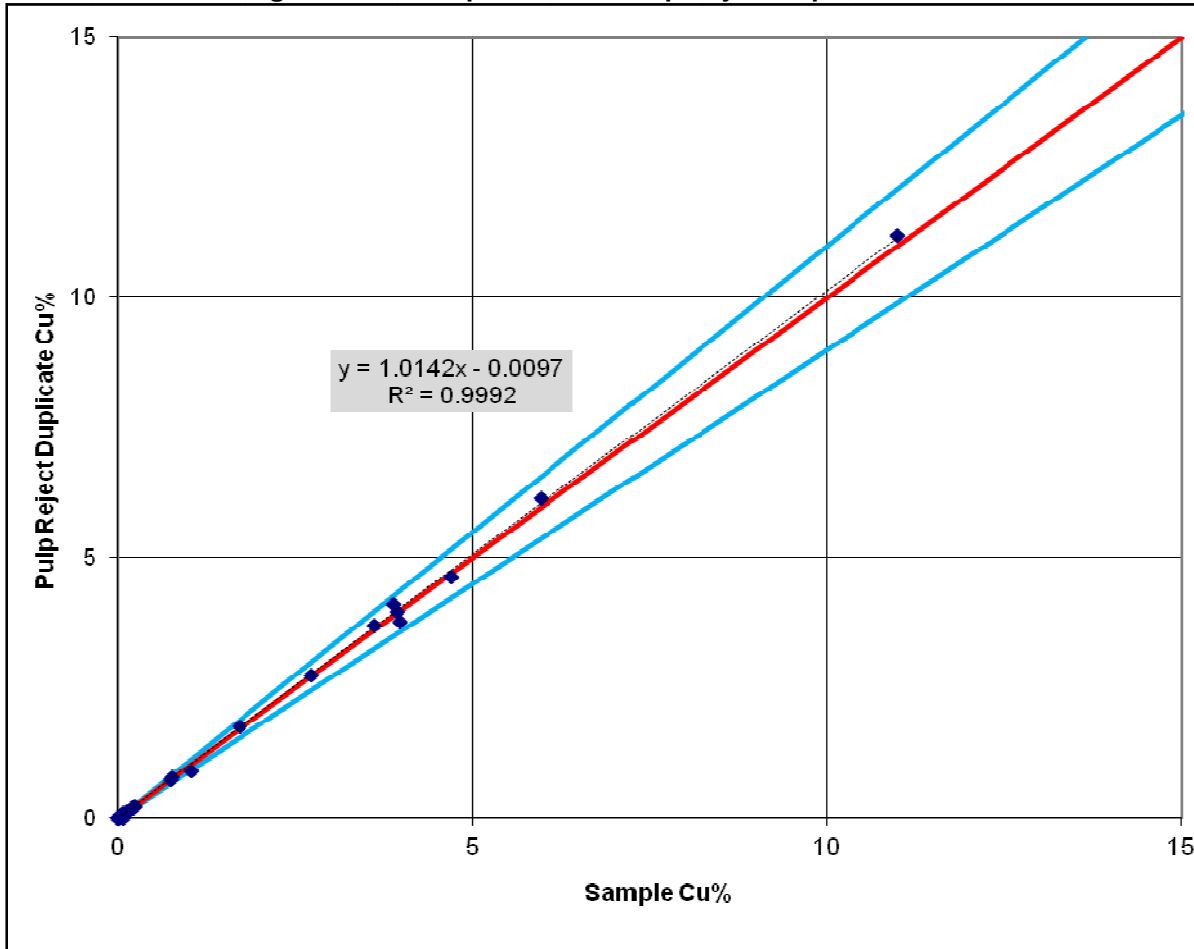
Duplicate Analysis of Pulp Reject Materials

The core logger designated 1 out of every 20 samples as a pulp reject duplicate by marking a “P” on the sample tag; the corer cutter placed the original tag and the “P” tag in the sample bag of the



original sample. ALS Chemex made up two pulps from this core material and assigned the first sample number to the original and the second sample number to the duplicate. The duplicate sample was analyzed in sequence with the original sample; results comparing the original and duplicate results are shown in the following charts.

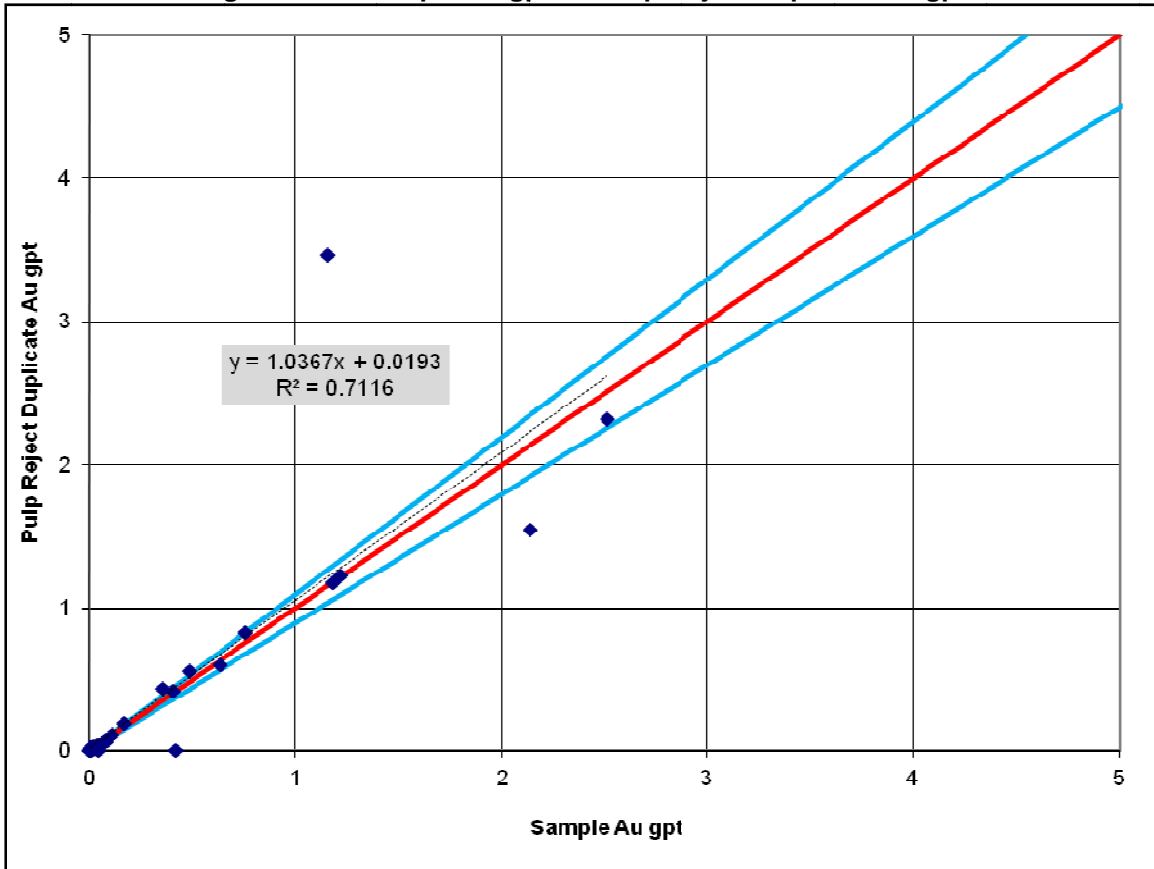
Figure 13-27 Sample Cu% vs. Pulp Reject Duplicate Cu%



Reproducibility of copper in pulp duplicates in Figure 13-27 was excellent for the 2010 drill campaign. The duplicates were marginally higher overall compared to the original samples.



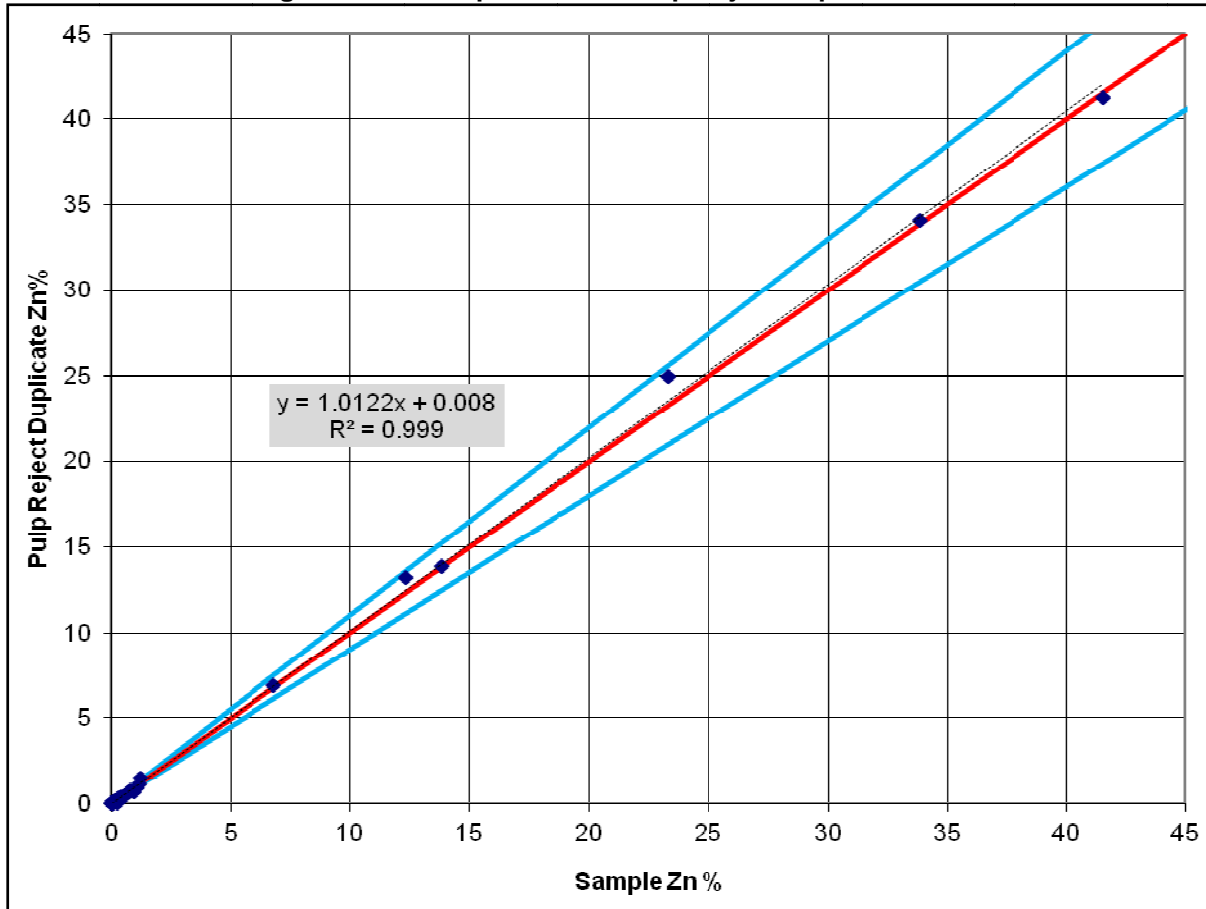
Figure 13-28 Sample Au gpt vs. Pulp Reject Duplicate Au gpt



Reproducibility of gold in pulp duplicates was very good for the 2010 drill campaign as shown in Figure 13-28. The duplicates were marginally higher overall compared to the original samples and there are 3 occurrences significantly outside the $\pm 10\%$ performance gate, two below (the original result was higher grade than the duplicate) and one above (the original result was lower grade than the duplicate).



Figure 13-29 Sample Zn% vs. Pulp Reject Duplicate Zn%



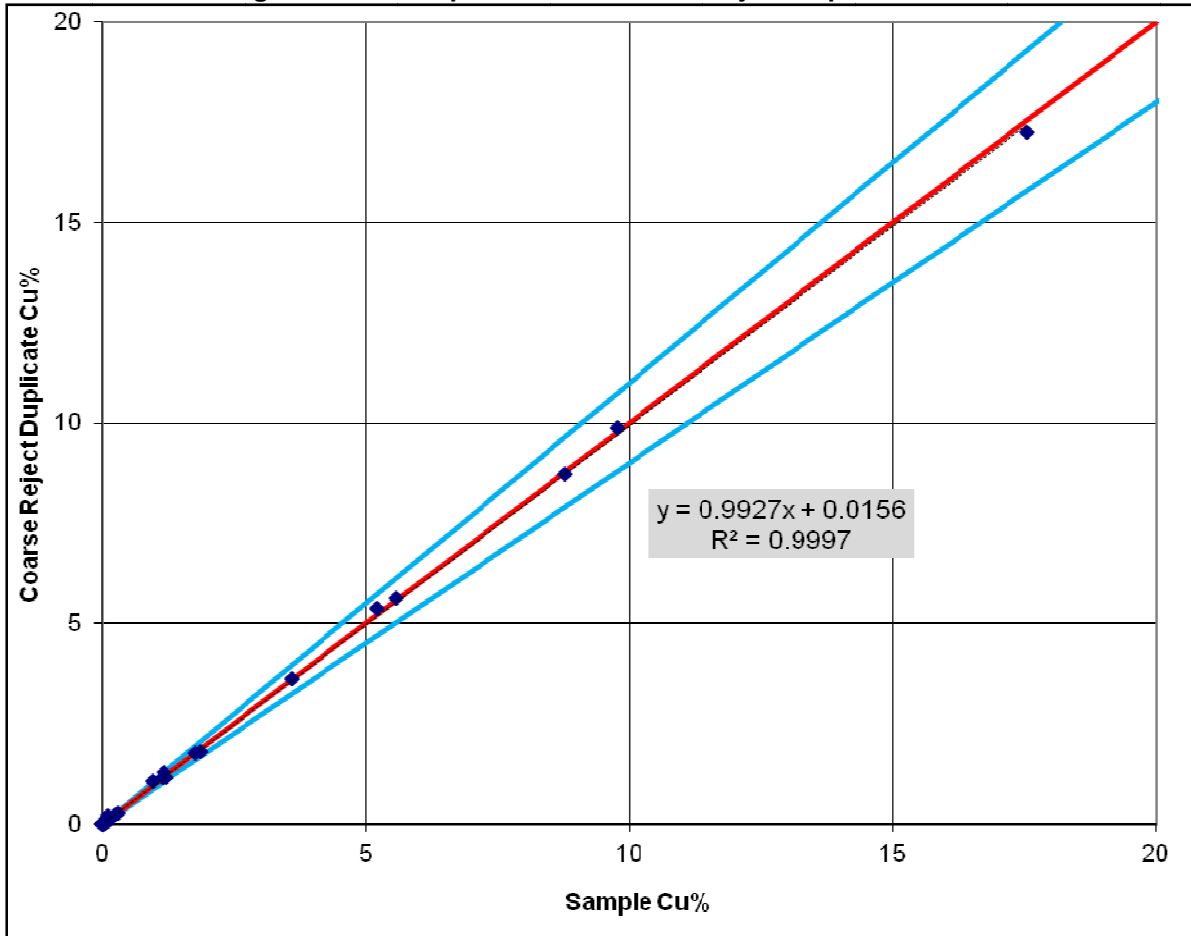
Reproducibility of zinc in pulp duplicates was excellent for the 2010 drill campaign. (Figure 13-29) The duplicates were marginally higher overall compared to the original samples; none of the duplicate pairs plots outside the +/-10% performance gate.

Duplicate Analysis of Coarse Reject Materials

The core logger designated 1 out of every 20 samples as a coarse reject duplicate by marking a “P” on the sample tag; the corer cutter placed the original tag and the “P” tag in the sample bag of the original sample. ALS Chemex made up two pulps after sub-sampling the coarse crush phase of the core material, and then assigned the first sample number to the original and the second sample number to the duplicate. The duplicate sample was analyzed in sequence with the original sample; results comparing the original and duplicate results are shown in the following charts.



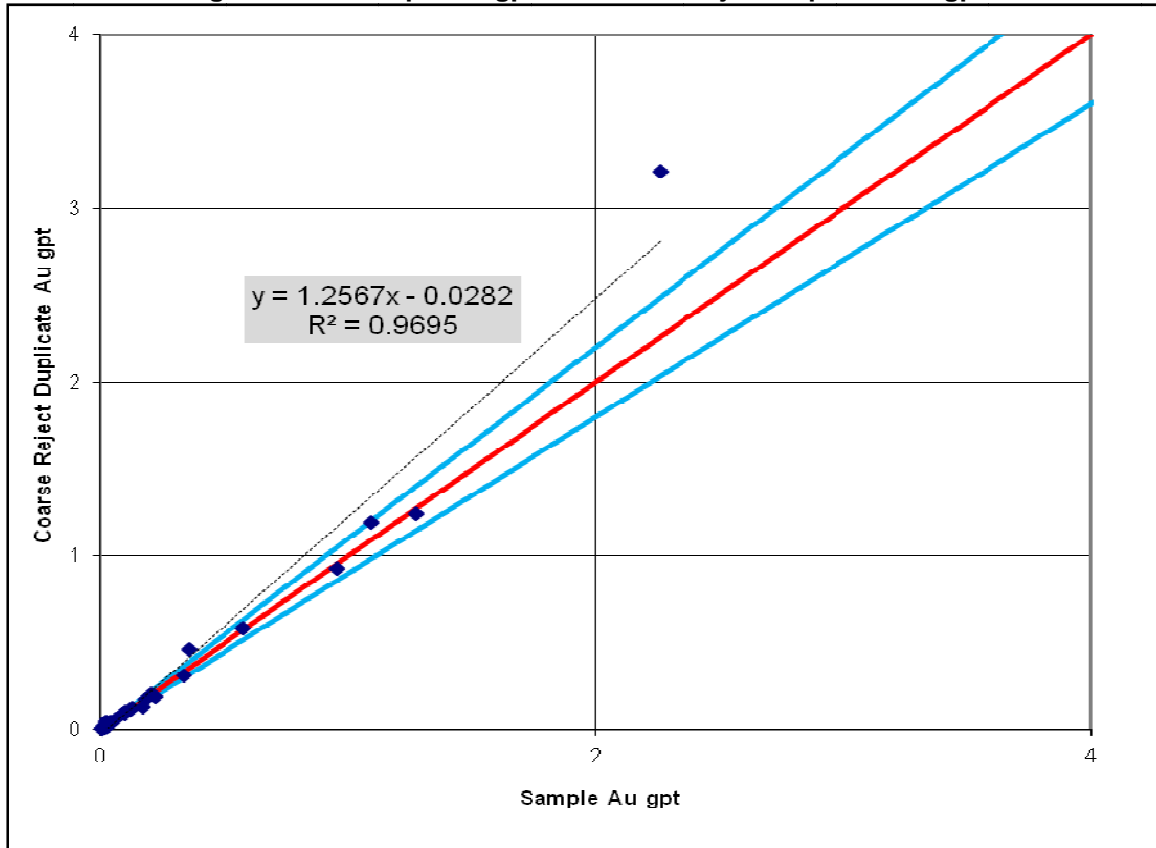
Figure 13-30 Sample Cu% vs. Coarse Reject Duplicate Cu%



Reproducibility of copper in coarse reject duplicates was excellent for the 2010 drill campaign as shown in Figure 13-30. All duplicate pairs plot within the +/-10% performance gate.



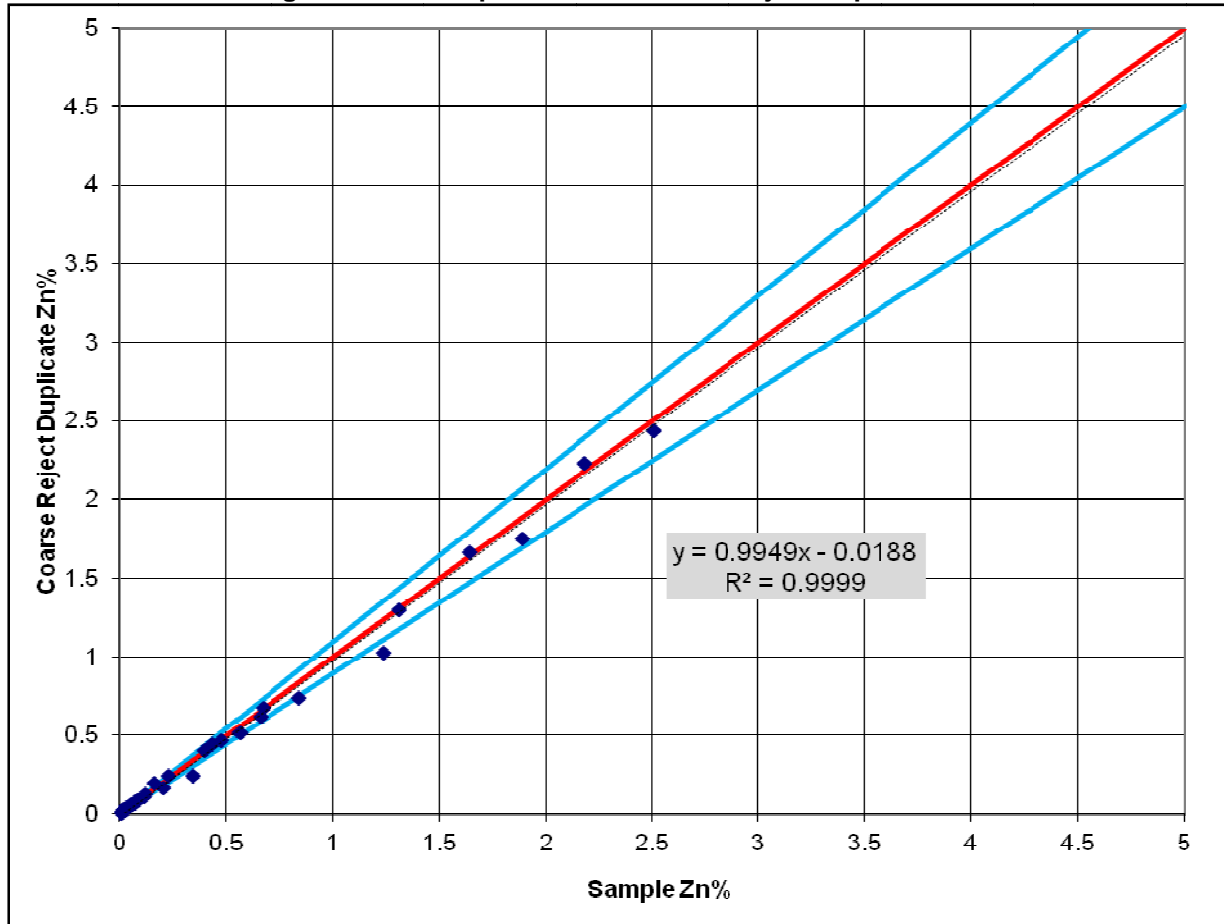
Figure 13-31 Sample Au gpt vs. Coarse Reject Duplicate Au gpt



Reproducibility of gold in coarse reject duplicates was fair for the 2010 drill campaign. (Figure 13-31) The duplicates were higher overall compared to the original samples and there is 1 occurrence significantly above the +/-10% performance gate where the original result was lower grade than the duplicate.



Figure 13-32 Sample Zn% vs. Coarse Reject Duplicate Zn%



Reproducibility of zinc in coarse duplicates was very good for the 2010 drill campaign as shown in Figure 13-32. The duplicates were marginally lower overall compared to the original samples. Two of the duplicate pairs plots below the $\pm 10\%$ performance gate, indicating the original results were higher grade than the duplicate results.



14 DATA VERIFICATION

Brad Mercer and Garth Kirkham both visited the property during the 2008 program, viewed and inspected core, inspected drill sites, reviewed procedures and confirmed data collection techniques. It is the author's opinion that the methods and procedures met and/or exceeded industry standards and best practices. No individual sample validation and verification was employed by the author due to the history of the property and it is believed that the level of workmanship and professionalism is at the highest level and therefore not warranted.