

Your Project #: 340965,PIN-B
Site: PIN-B
Your C.O.C. #: 82215

Attention: HENRY WONG
SENE CONSULTANTS LIMITED
121 GRANTON DRIVE, UNIT 12
RICHMOND HILL, ON
CANADA L4B 3N4

Report Date: 2010/06/23

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B048100
Received: 2010/06/21, 11:39

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
BTEX/F1 in Water by HS GC/MS	1	N/A	2010/06/23	CAL SOP-00190	EPA 8260 C / CCME
Mercury (Total-LowLevel) by CVAF Ø	1	2010/06/23	2010/06/23	65-A-002-10	EPA 245.7
Elements by ICPMS - Dissolved	1	N/A	2010/06/23	AB SOP-00043	EPA 200.8
Elements by ICPMS - Total	1	2010/06/23	2010/06/23	AB SOP-00043	EPA 200.8
Oil and Grease by IR	1	2010/06/22	2010/06/23	CAL SOP-00096	SM 5520C
Polychlorinated Biphenyls	1	2010/06/23	2010/06/23	CAL SOP-00149	EPA 3510C, EPA 8082A

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
* Results relate only to the items tested.

(1) This test was performed by Maxxam Vancouver

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

LISA MCMANES, Sample Reception Supervisor
Email: lisa.mcmannes@maxxamanalytics.com
Phone# (403) 291-3077

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B048100
Report Date: 2010/06/23

SENE CONSULTANTS LIMITED
Client Project #: 340965,PIN-B
Site Reference: PIN-B
Sampler Initials: HV

AT1 BTEX AND F1 (WATER)

Maxxam ID		U94616		
Sampling Date		2010/06/18		
COC#		82215		
	Units	NHL-SW1	RDL	QC Batch
Volatiles				
Benzene	ug/L	<0.4	0.4	4050468
Toluene	ug/L	<0.4	0.4	4050468
Ethylbenzene	ug/L	<0.4	0.4	4050468
o-Xylene	ug/L	<0.4	0.4	4050468
m & p-Xylene	ug/L	<0.8	0.8	4050468
Xylenes (Total)	ug/L	<0.8	0.8	4050468
F1 (C6-C10) - BTEX	ug/L	<100	100	4050468
(C6-C10)	ug/L	<100	100	4050468
Surrogate Recovery (%)				
4-BROMOFLUOROBENZENE (sur.)	%	101		4050468
D4-1,2-DICHLOROETHANE (sur.)	%	110		4050468
D8-TOLUENE (sur.)	%	98		4050468

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		U94616		
Sampling Date		2010/06/18		
COC#		82215		
	Units	NHL-SW1	RDL	QC Batch
Misc. Organics				
Oil and grease	mg/L	<2	2	4047410

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POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Maxxam ID		U94616		
Sampling Date		2010/06/18		
COC#		82215		
	Units	NHL-SW1	RDL	QC Batch
Polychlorinated Biphenyls				
Aroclor 1016	mg/L	<0.000050	0.000050	4051003
Aroclor 1221	mg/L	<0.000050	0.000050	4051003
Aroclor 1232	mg/L	<0.000050	0.000050	4051003
Aroclor 1242	mg/L	<0.000050	0.000050	4051003
Aroclor 1248	mg/L	<0.000050	0.000050	4051003
Aroclor 1254	mg/L	<0.000050	0.000050	4051003
Aroclor 1260	mg/L	<0.000050	0.000050	4051003
Aroclor 1262	mg/L	<0.000050	0.000050	4051003
Aroclor 1268	mg/L	<0.000050	0.000050	4051003
Total Aroclors	mg/L	<0.000050	0.000050	4051003
Surrogate Recovery (%)				
NONACHLOROBIPHENYL (sur.)	%	92		4051003

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		U94616		
Sampling Date		2010/06/18		
COC#		82215		
	Units	NHL-SW1	RDL	QC Batch
Elements				
Total Arsenic (As)	mg/L	0.0003	0.0002	4053124
Dissolved Cadmium (Cd)	mg/L	0.000034	0.000005	4053125
Dissolved Chromium (Cr)	mg/L	0.002	0.001	4053125
Dissolved Cobalt (Co)	mg/L	<0.0003	0.0003	4053125
Dissolved Copper (Cu)	mg/L	0.0008	0.0002	4053125
Dissolved Lead (Pb)	mg/L	0.0003	0.0002	4053125
Dissolved Nickel (Ni)	mg/L	<0.0005	0.0005	4053125
Total Zinc (Zn)	mg/L	0.007	0.003	4053124
Total Mercury (Hg)	ug/L	0.012	0.002	4053080

RDL = Reportable Detection Limit

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Package 1	6.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

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QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
4047410	Oil and grease	2010/06/23			104	70 - 130	<2	mg/L		
4050468	4-BROMOFLUOROBENZENE (sur.)	2010/06/23	115	70 - 130	112	70 - 130	103	%		
4050468	D4-1,2-DICHLOROETHANE (sur.)	2010/06/23	114	70 - 130	113	70 - 130	110	%		
4050468	D8-TOLUENE (sur.)	2010/06/23	101	70 - 130	100	70 - 130	100	%		
4050468	Benzene	2010/06/23	95	70 - 130	93	70 - 130	<0.4	ug/L	0.5	40
4050468	Toluene	2010/06/23	99	70 - 130	97	70 - 130	<0.4	ug/L	0.9	40
4050468	Ethylbenzene	2010/06/23	105	70 - 130	100	70 - 130	<0.4	ug/L	3.9	40
4050468	o-Xylene	2010/06/23	97	70 - 130	94	70 - 130	<0.4	ug/L	0.7	40
4050468	m & p-Xylene	2010/06/23	97	70 - 130	92	70 - 130	<0.8	ug/L	5.8	40
4050468	(C6-C10)	2010/06/23			106	70 - 130	<100	ug/L	12.8	40
4050468	Xylenes (Total)	2010/06/23					<0.8	ug/L	5.2	40
4050468	F1 (C6-C10) - BTEX	2010/06/23					<100	ug/L	26.9	40
4051003	NONACHLOROBIPHENYL (sur.)	2010/06/23	102	30 - 130	100	30 - 130	84	%		
4051003	Aroclor 1260	2010/06/23	108	30 - 130	101	30 - 130	<0.000050	mg/L		
4051003	Aroclor 1016	2010/06/23					<0.000050	mg/L		
4051003	Aroclor 1221	2010/06/23					<0.000050	mg/L		
4051003	Aroclor 1232	2010/06/23					<0.000050	mg/L		
4051003	Aroclor 1242	2010/06/23					<0.000050	mg/L		
4051003	Aroclor 1248	2010/06/23					<0.000050	mg/L		
4051003	Aroclor 1254	2010/06/23					<0.000050	mg/L		
4051003	Aroclor 1262	2010/06/23					<0.000050	mg/L		
4051003	Aroclor 1268	2010/06/23					<0.000050	mg/L		
4051003	Total Aroclors	2010/06/23					<0.000050	mg/L		
4053080	Total Mercury (Hg)	2010/06/23	NC	80 - 120	95	80 - 120	<0.002	ug/L	9.0	20
4053124	Total Arsenic (As)	2010/06/23	88	80 - 120	91	80 - 120	<0.0002	mg/L	0.8	20
4053124	Total Zinc (Zn)	2010/06/23			87	80 - 120	<0.003	mg/L	NC	20
4053125	Dissolved Cadmium (Cd)	2010/06/23	113	80 - 120	113	80 - 120	<0.000005	mg/L	19.1	20
4053125	Dissolved Chromium (Cr)	2010/06/23	99	80 - 120	103	80 - 120	<0.001	mg/L	NC	20
4053125	Dissolved Cobalt (Co)	2010/06/23	109	80 - 120	107	80 - 120	<0.0003	mg/L	NC	20
4053125	Dissolved Copper (Cu)	2010/06/23	101	80 - 120	101	80 - 120	<0.0002	mg/L	NC	20

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QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
4053125	Dissolved Lead (Pb)	2010/06/23	95	80 - 120	105	85 - 113	<0.0002	mg/L	NC	20
4053125	Dissolved Nickel (Ni)	2010/06/23	100	80 - 120	100	82 - 120	<0.0005	mg/L	NC	20

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Notification Log

Maxxam Job #: B048100
Report Date: 2010/06/23

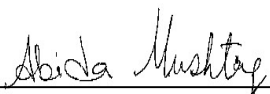
SENES CONSULTANTS LIMITED
PROJECT #: 340965, PIN-B
Site: PIN-B

No Reportable Regulation Exceedences Noted.

Validation Signature Page

Maxxam Job #: B048100

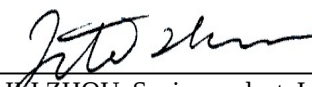
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ABIDA MUSHTAQ,



DAVE HUANG, BBY Scientific Specialist



LILI ZHOU, Senior analyst, Inorganic department.



ORLA JORGENSEN, Organics Supervisor

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PO # / AFE #:	
Quotation #:	DCS 2010
Project #:	340965-
Project Name:	Pin-B
Location:	Pin-B
Sampler's Initials:	fw..

Report To:	Henry Wang
Prov:	PC:
Ph:	Fax:

Invoice To: ☒ Yes ☐ No	
Company Name:	DCS Hd.
Contact Name:	Henry Wang
Address:	Yellowknife
Prov:	NT
	PC:
Contact #s:	Ph: (867) 445-2288 Fax: (867) 667-2033

DETECTION LIMIT REQUIREMENTS:		REPORT DISTRIBUTION:		OTHER TEST(S)	
Check the applicable criterion and indicate land use		EMAIL ADDRESS(S):			
☐ AT1 ☒ CCME ☐ OTHER		hwan@cs.td.ca			
SERVICE REQUESTED: ☒ RUSH (Please ensure you contact the lab to reserve) Date Requested: _____ ☐ REGULAR Turnaround (5 to 7 Days)		Date & Time Sampled Year/Month/Day 18 June 2010		# of Containers Submitted *HOLD for 60 Days	
SOILS (footnotes defined on back)		WATERS (footnotes defined on back)		OTHER TEST(S)	
☐ BTEX F1-F4 ☐ Sieve (75 micron) ☐ Salinity 4 ☐ Regulated Metals (CCME / AT1) ☐ Assessment ICP Metals ☐ Paint Filter ☐ Flashpoint ☐ pH (1:1) ☐ TCLP ☐ BTEX ☐ Metals		☒ BTEX F1 ☐ VOCs ☐ BTEX F1-F2 ☐ BTEX F1-F4 ☐ Routine Water Package ☐ Turb ☐ F ☐ Total ☐ Preserved ☐ Not Preserved ☐ Dissolved ☐ Filtered ☐ Not Filtered ☒ Mercury ☐ TKN ☐ COD ☐ TOC ☐ DOC		Oil and Grease Total As, Zn Dissolved Cd, Cr, Cu, Pb, Ni Total PCB	
1 NH ₄ - SW1		W		X	
2				X	
3				X	
4				X	
5				X	
6				X	
7				X	
8				X	
9				X	
10				X	
11				X	
12				X	

*All samples are held for 90 calendar days after sample receipt. For long term storage please contact your project manager.

Relinquished By: H.W. Date/Time: 11 June 2010

Sign and Print: _____

COMMENTS/SPECIAL INSTRUCTIONS:

# JARS USED & NOT SUBMITTED	Temperature	Ice
	5	7
	7	7
		V

RECEIVED
Received By
JUN 22 2010
12:07 PM

CUSTOMER SEAL NO. 68

Temp: 37.7°C Max Job #: B048100

MAXXAM ANALYTICS
 4000 19st N.E
 Calgary, Alberta, T2E 6P8
 Phone: (403) 291-3077
 Fax: (403) 291-9468

Maxxam
 Analytics
 SUBCONTRACTING REQUEST FORM

DECOMMISSIONING
 CONSULTING SERVICES LTD. -
 YELLOWKNIFE
 Maxxam PM Lisa McManes

To: Maxxam Vancouver

RUSH

Job# B048100

☐ Yes ☒ No International Sample/BioHazard (if yes, add copy of Movement Cert., heat treat is required prior to disposal)
☐ Yes ☒ No Special Protocol (if yes, Protocol _____)

Received @ Subcontract Lab by (sign) AKR (print) Charlene

Received @ Subcontract Lab (Date) 26 23 10 (Time) 840

Received Lab's Job # _____ Inspected by (print) _____ SIF ☐ Yes ☐ No
 Upon receipt, record 3 temperatures for each package/cooler. If required by contract or legal sample, indicate if custody sealed.

Temp1 4 Temp2 5 Temp3 5 Custody sealed yes

Sample ID _____ **MATRIX** _____ **Test(s) Required** _____ **Container** _____ **Date Sampled** _____ **Date Required** _____

U94616-03R \ NHL-SW/1

WATER Mercury (Total-LowLevel) by CV/AF

I(HG) 2010/06/18 2010/06/23

NOTES:

- 1) Please call us if due date cannot be met. Please reference Sample ID on your report.
- 2) Include copy of this completed form, Client COC & signed final report to calgarycustomerservice@maxxamanalytics.com

SHIPPING INSTRUCTIONS

- ☐ Ship Immediately (highlight Yellow)
☒ Requires 9am
☐ Requires Sat. Delivery
☐ Regular Ship next available day
 Sender (Print) Morgan Kelt Initial MK
- ☒ Ship Cold
☐ Ship Room Temp
☐ Ship Frozen
☒ COC Must be Attached

SHIPPING DEPARTMENT CHECKLIST

- ☐ Correct Shipping location
☐ Correct Sample Ids (Paperwork vs Bottles)
☐ Yes ☐ No Special-Cooler, Ice, Tape-custody seal, Date&Sign
 Date Shipped _____ Shipper (Print) _____ Initial _____