SGS Environmental Services
Alaska Division
Level II Laboratory Data Report

Project:	16309-091 WES 5009
Client:	Holiday Alaska, Inc.
SGS Work Order:	1081615

Released by:

Barbara A. Hager

Barbara Hager
Alaska Division Project Manager

Barbara A. Hager
2008.04.29
15:36:38 -08'00'

Contents:

Note:
Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.

Case Narrative

Client	MCOEXPS	Holiday Alaska, Inc.	**Printed Date/Time**	4/29/2008	8:58
Workorder	1081615	16309-091 WES 5009			

Sample ID	Client Sample ID

Refer to the sample receipt form for information on sample condition.

1081615001 PS 16309-091 MW3OS

AK102 - The pattern is consistent with a highly weathered middle distillate.
AK102 - 5a-Androstane (surrogate) recovery is outside QC goals (biased high) due to hydrocarbon interference.

1081615002 PS 16309-091 MW3

AK102 - The pattern is consistent with a weathered middle distillate.

1081615003 PS 16309-091 MW4

AK102 - The pattern is consistent with a highly weathered middle distillate.

1081615004 PS 16309-091 MW6

AK102 - The pattern is consistent with a highly weathered middle distillate.

Laboratory Analysis Report

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Jennifer Firmstone
Shannon & Wilson Inc.
5430 Fairbanks St Suite 3
Anchorage, AK 99518

Work Order:	1081615
	16309-091 WES 5009
Client:	Holiday Alaska, Inc.
Report Date:	April 29, 2008

Barbara A Hager
Barbara Hager
Alaska Division Project Manager

Released by:
SGS Barbara A. Hager
2008.04.29 15:36:56
-08'00'

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and 001992 for NELAP (RCRA methods: 1020A, 1311, 6000/7000, 9040B/9045C, 9056A, 9060A, 9065, 8015C, 8021B, 8081B/8082A, 8260B, 8270D).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

If you have any questions regarding this report or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

SGS Ref.#	1081615001
Client Name	Holiday Alaska, Inc.
Project Name/#	16309-091 WES 5009
Client Sample ID	16309-091 MW3OS
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	04/29/2008 8:58
Collected Date/Time	04/22/2008 16:17
Received Date/Time	04/22/2008 16:45
Technical Director	**Stephen C. Ede**

Sample Remarks:

AK102 - The pattern is consistent with a highly weathered middle distillate.

AK102 - 5a-Androstane (surrogate) recovery is outside QC goals (biased high) due to hydrocarbon interference.

Parameter	Results		PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic Fuels Department										
Diesel Range Organics	0.844		0.308	mg/L	AK102	A		04/24/08	04/24/08	BME
Surrogates										
5a Androstane <surr>	151	!		%	AK102	A	50-150	04/24/08	04/24/08	BME

SGS Ref.#	1081615002
Client Name	Holiday Alaska, Inc.
Project Name/#	16309-091 WES 5009
Client Sample ID	16309-091 MW3
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	04/29/2008 8:58
Collected Date/Time	04/22/2008 15:08
Received Date/Time	04/22/2008 16:45
Technical Director	**Stephen C. Ede**

Sample Remarks:

AK102 - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic Fuels Department									
Diesel Range Organics	5.59	0.309	mg/L	AK102	A		04/24/08	04/24/08	BME
Surrogates									
5a Androstane <surr>	78.4		%	AK102	A	50-150	04/24/08	04/24/08	BME

SGS Ref.#	1081615003	**All Dates/Times are Alaska Standard Time**	
Client Name	Holiday Alaska, Inc.	**Printed Date/Time**	04/29/2008 8:58
Project Name/#	16309-091 WES 5009	**Collected Date/Time**	04/22/2008 16:02
Client Sample ID	16309-091 MW4	**Received Date/Time**	04/22/2008 16:45
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

AK102 - The pattern is consistent with a highly weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic Fuels Department									
Diesel Range Organics	1.88	0.305	mg/L	AK102	A		04/24/08	04/25/08	BME
Surrogates									
5a Androstane <surr>	85.4		%	AK102	A	50-150	04/24/08	04/25/08	BME

SGS Ref.#	1081615004
Client Name	Holiday Alaska, Inc.
Project Name/#	16309-091 WES 5009
Client Sample ID	16309-091 MW6
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	04/29/2008 8:58
Collected Date/Time	04/22/2008 15:21
Received Date/Time	04/22/2008 16:45
Technical Director	**Stephen C. Ede**

Sample Remarks:

AK102 - The pattern is consistent with a highly weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic Fuels Department									
Diesel Range Organics	2.56	0.306	mg/L	AK102	A		04/24/08	04/25/08	BME
Surrogates									
5a Androstane <surr>	72.8		%	AK102	A	50-150	04/24/08	04/25/08	BME

SGS Ref.#	824674	Method Blank	**Printed Date/Time**	04/29/2008	8:58
Client Name	Holiday Alaska, Inc.		**Prep Batch**	XXX19250	
Project Name/#	16309-091 WES 5009		**Method**	SW3520C	
Matrix	Water (Surface, Eff., Ground)		**Date**	04/24/2008	

QC results affect the following production samples:

1081615001, 1081615002, 1081615003, 1081615004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic Fuels Department					
Diesel Range Organics	0.0892 J	0.300	0.0600	mg/L	04/24/08
Surrogates					
5a Androstane <surr>	90.3	60-120		%	04/24/08
Batch	XFC7888				
Method	AK102				
Instrument	HP 5890 Series II FID SV A F				

SGS Ref.#	824675	Lab Control Sample	**Printed Date/Time**	04/29/2008	8:58
	824676	Lab Control Sample Duplicate	**Prep Batch**	XXX19250	
Client Name	Holiday Alaska, Inc.		**Method**	SW3520C	
Project Name/#	16309-091 WES 5009		**Date**	04/24/2008	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1081615001, 1081615002, 1081615003, 1081615004

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic Fuels Department								
Diesel Range Organics	LCS	4.16	83	(75-125)			5 mg/L	04/24/2008
	LCSD	3.98	80		4	(< 20)	5 mg/L	04/24/2008
Surrogates								
5a Androstane <surr>	LCS		95	(60-120)				04/24/2008
	LCSD		90		6			04/24/2008

Batch XFC7888
Method AK102
Instrument HP 5890 Series II FID SV A F

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1081615

CH / RECORD

Page 1 of 1

Laboratory SGS
Attn: Barbara

Analysis Parameters/Sample Container Description
(include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	DRO AK102						Total Number of Containers	Remarks/Matrix
16309-091 MW3DS	① A, B	1617	4/22/08			X							water
16309-091 MW3	②	1508	4/22/08			X							
16309-091 MW4	③	1602	4/22/08			X							
MW6	④	1521	4/22/08			X							

Project Information		Sample Receipt	
Project Number:	16309-091	Total Number of Containers	
Project Name:	WES 5009	COC Seals/Intact? Y/N/NA	
Contact:	Jennifer	Received Good Cond./Cold	
Ongoing Project?	Yes ☒ No ☐	Delivery Method:	
Sampler:	ATC	(attach shipping bill, if any)	

Instructions
Requested Turnaround Time: Stand.
Special Instructions: Level IV deliverables
Email Results: JCF@shanwil.com

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: Time: 4:45	Signature: Time:	Signature: Time:
Printed Name: AMANDA COMPTON Date: 4-22-08	Printed Name: Date:	Printed Name: Date:
Company: S+W	Company:	Company:

Received By: 1.	Received By: 2.	Received By: 3.
Signature: Time:	Signature: Time:	Signature: Time: 1645
Printed Name: Date:	Printed Name: Date:	Printed Name: JoeRuDi Date: 4/22/08
Company:	Company:	Company: SGS

Distribution: White - w/shipment - returned to Shannon & Wilson w/ laboratory report
Yellow - w/shipment - for consignee files
Pink - Shannon & Wilson - Job File

F-19-91/UR

410 TB=4.9 C=9.3

No. 27890

SGS

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SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA		
___	✓	___	Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?	**TAT (circle one):** (Standard) -or- Rush
___	___	✓	If yes, have you done *e-mail ALERT notification*?	**Received Date:** 4/22/08
___	✓	___	Are samples *within 24 hrs.* of **hold time** or **due date**?	**Received Time:** 1645
___	___	✓	If yes, have you also *spoken with* supervisor?	Is **date/time conversion** necessary? NO
___	___	___	Archiving bottles (if req'd): Are they properly marked?	# of hours to AK Local Time: —
#✓	___	___	Are there any **problems**? PM Notified? ___	**Thermometer ID:** 91D
___	___	✓	Were samples preserved correctly and pH verified?	
___	___	✓	If this is for PWS, provide **PWSID.** ___	
___	✓	___	Will courier charges apply?	
			Method of payment? ___	
✓	___	___	Data package required? (Level: 1 / (2) / 3 / 4)	
			Notes: ___	
___	✓	___	Is this a DoD project? (USACE, Navy, AFCEE)	

Cooler ID	Temp Blank	Cooler Temp
# 1	4.9 °C	9.3 °C
	°C	°C
	°C	°C
	°C	°C
	°C	°C
	°C	°C

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply): (Client)
Alert Courier / UPS / FedEx / USPS / DHL / AA Goldstreak / NAC / ERA / PenAir / Carlile/ Lynden / SGS / Other: ___

Airbill # ___

Additional Sample Remarks: *(√if applicable)*

___ Extra Sample Volume?
___ Limited Sample Volume?
___ MeOH field preserved for volatiles?
___ Field-filtered for dissolved ___
___ Lab-filtered for dissolved ___
___ Ref Lab required? ___
___ Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE)

Yes	No		
___	___	Is received temperature 4 ± 2°C?	
		Exceptions:	Samples/Analyses Affected:
___	___	If temperature(s) <0 °C, were containers ice-free? N/A	
		Notify PM immediately of any ice in samples.	
___	___	Was there an airbill? *(Note # above in the right hand column)*	
___	___	Was cooler sealed with custody seals?	
		# / where: ___	
___	___	Were seal(s) intact upon arrival?	
___	___	Was there a COC with cooler?	
___	___	Was COC sealed in plastic bag & taped inside lid of cooler?	
___	___	Was the COC filled out properly?	
___	___	Did the COC indicate USACE / Navy / AFCEE project?	
___	___	Did the COC and samples correspond?	
___	___	Were all sample packed to prevent breakage?	
		Packing material: ___	
___	___	Were all samples unbroken and clearly labeled?	
___	___	Were all samples sealed in separate plastic bags?	
___	___	Were all VOCs free of headspace and/or MeOH preserved?	
___	___	Were correct container / sample sizes submitted?	
___	___	Is sample condition good?	
___	___	Was copy of CoC, SRF, and custody seals given to PM to fax?	

This section must be filled if problems are found.

Yes **No**

___ ___ Was client notified of problems?

Individual contacted: ___
Via: Phone / Fax / Email (*circle one*)
Date/Time: ___
Reason for contact: ___

Change Order Required? ___
SGS Contact: ___

Notes: ___

Completed by (sign): ___ **(print):** Joe Rudi

Login proof (check one): waived ___ required ___ performed by: ___

SGS

1081615

SAMPLE RECEIPT FORM (page 2)

SGS WO#

						Container Volume									Container Type								Preservative							
#	Container ID	Matrix	Test	QC	TB	1 L	500 mL	250 mL	125 mL	60 mL	40 mL	8oz (250 mL)	4oz (125 mL)	Other	AG	CG	HDPE	Nalgene	Cubie	Coli	Septa	Other	None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	Other
1-4	A,B	1	DRO			8									✓									✓						

Bottle Totals	1 L	500 mL	250 mL	125 mL	60 mL	40 mL	8oz (250 mL)	4oz (125 mL)	Other
	8								

Completed by: Joe R[illegible] Date: 4/22/08