~~410.26.006~~
410.38.022

Travis/Peterson Environmental Consulting, Inc.

Michael D. Travis P.E.
Principal

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Fairbanks, Alaska 99701

Phone: 907-455-7225
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November 2, 2007
1291-01

RECEIVED
NOV 01 2007
CONTAMINATED SITES FAIRBANKS

RECEIVED
NOV 05 2007
CONTAMINATED SITES FAIRBANKS

KIC Construction
P.O. Box 1050
Kotzebue, Alaska 99752

Attention: Dan Willey

Re: Underground Storage Tank Removal and Soil Screening
Hanson Trading Company, Kotzebue, Alaska

Dear Mr. Willey:

Travis/Peterson Environmental Consulting, Inc. (TPECI) is pleased to present the following report detailing the removal of a 500-gallon heating oil tank and screening soil at Hanson's Trading Company property in Kotzebue, Alaska (Figure 1).

On October 16, 2007, TPECI staff scientist Melissa Shippey was on site to supervise the removal of a 500-gallon heating oil tank and to screen soil in the tank excavation for the presence of petroleum hydrocarbons. Prior to removing the tank, KIC personnel removed a layer of frozen clean fill material from above the tank. This material had recently been backfilled onto the property after the demolition of the Hanson's Trading Company buildings. KIC and TPECI personnel both noticed a strong product odor in the soil surrounding the tank (Figure 2).

Once the tank was removed and the loose material excavated and stockpiled, TPECI personnel entered the excavation to begin soil screening. Soil headspace samples were collected at multiple locations along each sidewall and from two locations in the bottom of the excavation. Soil headspace samples were also collected from the contaminated soil stockpile. Each headspace sample was placed into a Ziploc™ baggie, sealed, and allowed to warm in a personal vehicle on site for ten minutes.

Once the samples reached room temperature, a photoionization detector (PID) was used to analyze the headspace in each baggie. Prior to sampling, the PID was calibrated using fresh air and an isobutylene standard gas. The tip of the PID was inserted into the sample baggie and allowed to analyze for a minimum of 30 seconds or until the readings stabilized. The highest reading observed on the PID was recorded in a bound field notebook. Soil headspace PID readings are presented in the following table.

SOIL HEADSPACE PID RESULTS

Sample ID	SAMPLE LOCATION	PID Reading
		Parts per million
S-1	Contaminated stockpile	0.0
S-2	Contaminated stockpile	251
S-3	Contaminated stockpile	41.3
S-4	Contaminated stockpile	5.3
EXC 1	North sidewall-west end	0.0
EXC 2	North sidewall-east end	0.0
EXC 3	South sidewall-east end	0.0
EXC 4	South sidewall-west end	0.0
EXC 5	Excavation bottom-west end	0.0
EXC 6	Excavation bottom-east end	0.0
EXC 7	West sidewall	0.0
EXC 8	Excavation bottom-east end	0.5
EXC 9	East sidewall	0.0

Upon completion of the headspace sample analyses, TPECI personnel decided to have KIC personnel remove some extra material from the bottom of the excavation to make sure all possible soil contamination was removed. Approximately 3 to 5 additional cubic yards of soil were excavated and placed onto the stockpile. TPECI personnel then reentered the excavation and collected two additional headspace samples from the bottom only. The two samples had PID results ranging from 0.0 ppm to 1.1 ppm.

TPECI personnel instructed KIC that the excavation was clean at this point and confirmation samples were collected. TPECI personnel collected one soil confirmation sample from each side wall and two from the bottom of the excavation. Samples were submitted to an off site laboratory for gasoline range organic (GRO), benzene, toluene, ethylbenzene, and xylenes (BTEX), and diesel range organic (DRO) analyses. Two stockpile confirmation samples were also collected and analyzed. All analytical results are presented in the following table.

Soil confirmation samples indicate that most of the contamination resulting from the former heating oil tank was removed. Approximately 11 cubic yards of contaminated material were removed from the excavation and placed on a 6-mil polyethylene liner at the KIC maintenance shop property in Kotzebue. Some of the excavated material that was screened and deemed clean was pushed back into the excavation as backfill. The heating oil tank was removed from the site and taken to the KIC property in Kotzebue to be used for waste oil storage.

SOIL ANALYTICAL RESULTS

Sample ID	Date/Time	GRO	DRO	Benzene
ADEC Soil Cleanup Levels*	mg/kg	100	500	200
Stockpile 1	10/16/07 1045	67.9	**1,920**	ND
Stockpile 2	10/16/07 1050	46.9	**1,810**	ND
Sidewall 1	10/16/07 1100	ND	120	ND
Sidewall 2	10/16/07 1105	ND	ND	ND
Sidewall 3	10/16/07 1110	ND	ND	ND
Sidewall 4	10/16/07 1115	ND	ND	ND
Bottom 5	10/16/07 1120	ND	332	ND
Bottom 6	10/16/07 1125	13.1	**990**	ND
7 (duplicate)	10/16/07 1130	15.9	**880**	ND

NOTES:
* denotes the cleanup level for DRO of 500 mg/kg is used because the total BTEX compounds detected for each sample do not exceed 15 mg/kg (ADEC Table A2 Method One for the Arctic Zone)
GRO – gasoline range organic
DRO – diesel range organic
BOLD – sample exceeds cleanup levels
ND – analyte was non-detect
Sample 7 is a duplicate for confirmation sample number 6.

The results in sample 6 and its duplicate sample number 7 indicate a small concentration of residual contamination likely exists on the east end of the former tank location. Upon completion of the excavation the soil was dry and indicated no presence of groundwater. No drinking water aquifer exists in Kotzebue and any supra-permafrost groundwater that does exist near the shoreline is likely saline.

Therefore TPECI personnel do not believe that the residual contamination poses any threat to human health or the environment at this time and that the contamination could be the result of spillage from the excavation process.

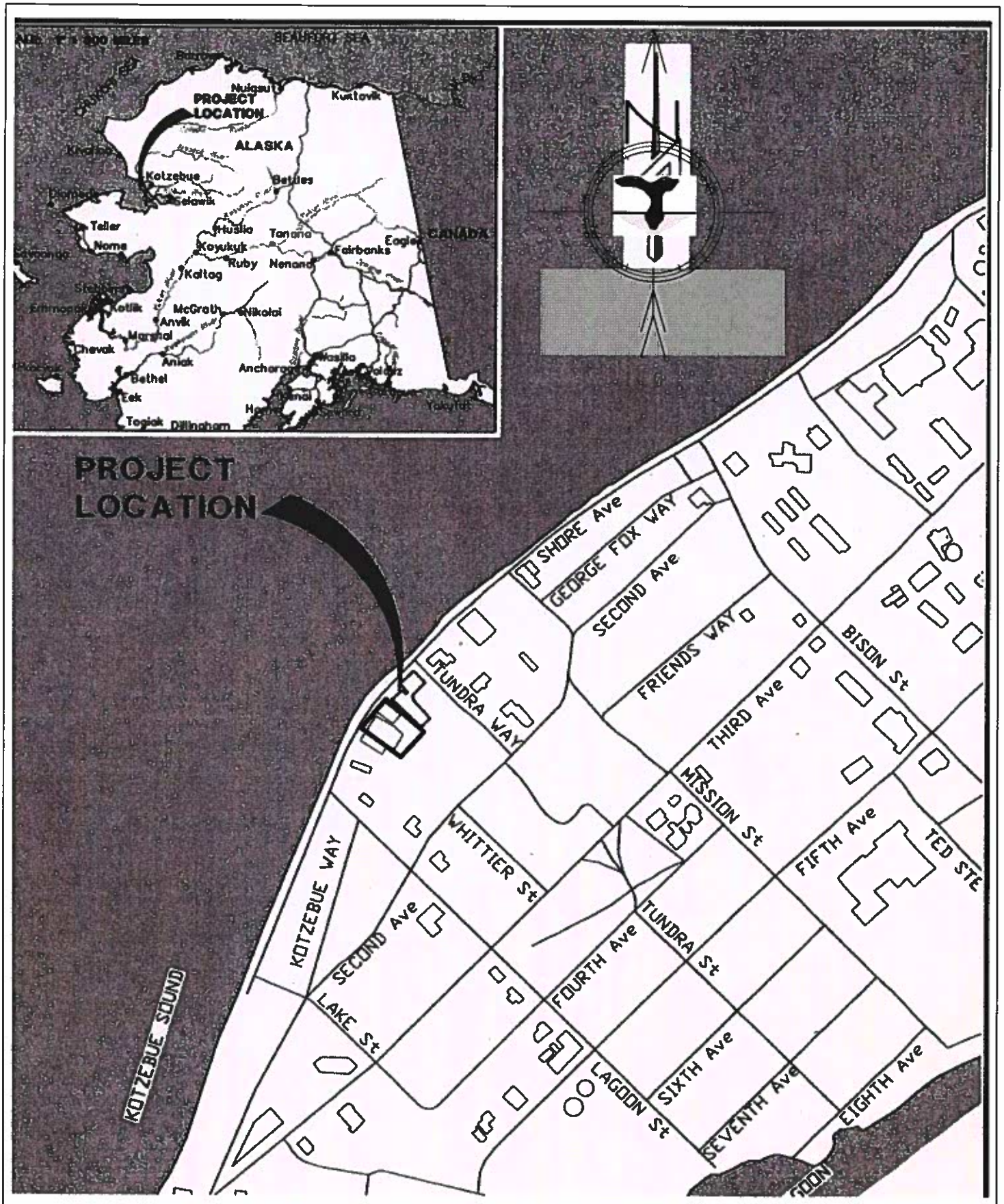
If there are any questions or concerns regarding the contents of this report you can contact me at (907) 455-7225.

Sincerely,

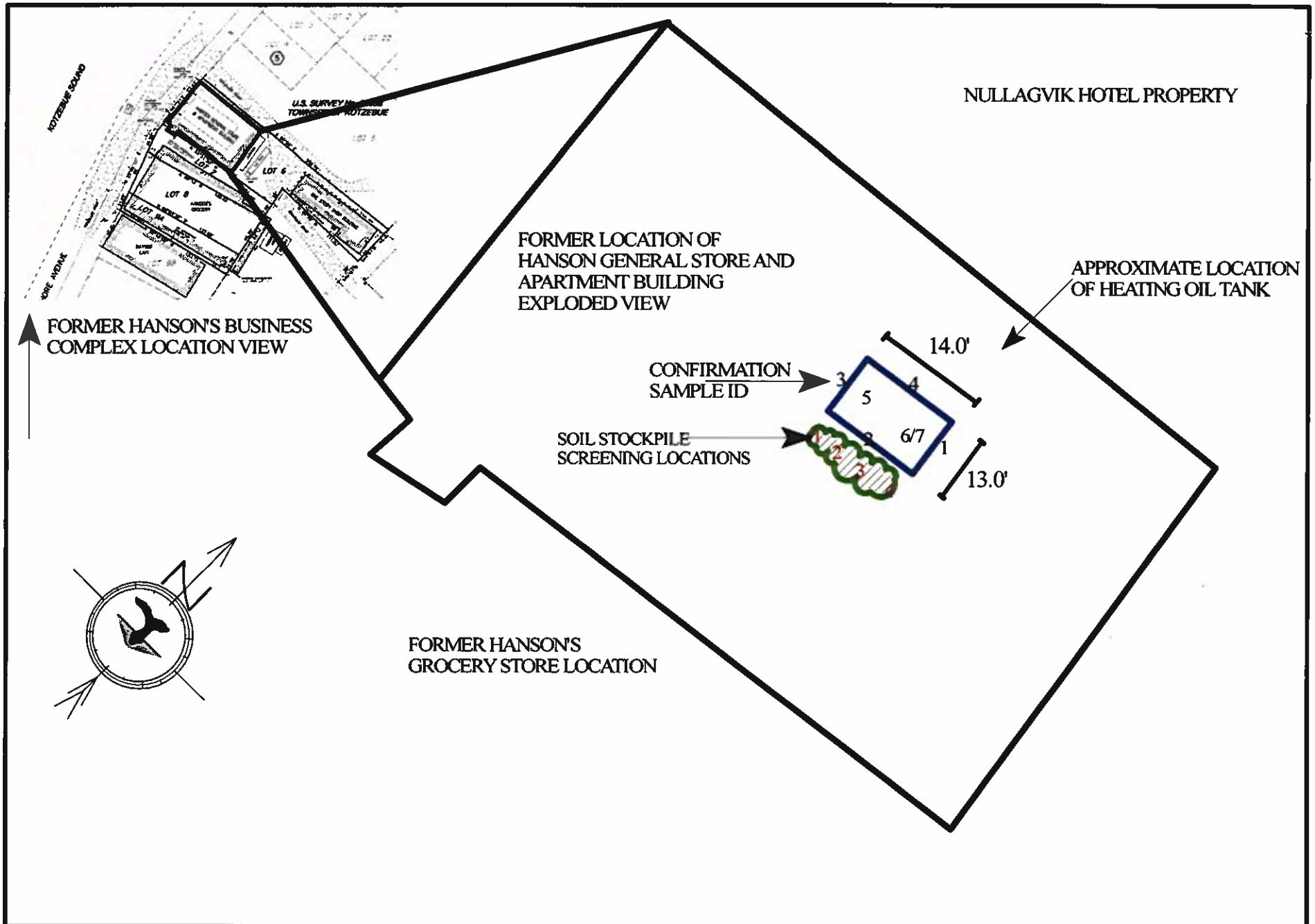
Melissa S. Shippey
Staff Scientist

Attachments: Figures 1 and 2
Laboratory Analytical Report
ADEC Quality Assurance Checklist

cc: Ms. Ann Farris, ADEC Contaminated Sites Program



TRAVIS/PETERSON ENVIRONMENTAL CONSULTING, INC. 329 2ND STREET FAIRBANKS, ALASKA 99701	KIC CONSTRUCTION	FIGURE 1 LOCATION AND VICINITY	
PROJECT No: 1291-01	FILE: PROJECTS/1291/01/Figures/Figure 1.skf	DATE: 10/31/07	No Scale



TRAVIS/PETERSON ENVIRONMENTAL CONSULTING, INC. 329 2ND STREET FAIRBANKS, AK 99701	KIC CONSTRUCTION		FIGURE 2 SITE PLAN
PROJECT NO: 1291-01	FILE: PROJECTS/1291/01/FIGURES/FIGURE 2.SKF	DATE: 10/31/2007	SCALE: AS SHOWN

SGS Environmental Services
Alaska Division
Level II Laboratory Data Report

Project:	KIC
Client:	Travis/Peterson
SGS Work Order:	1075193

Released by: Stephen C. Ede
Alaska Division Technical Director

Stephen C. Ede
2007.10.31
12:55:07 -08'00'

Contents:

Cover Page
Case Narrative
Final Report Pages
Quality Control Summary Forms
Chain of Custody/Sample Receipt Forms

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.

SGS

Case Narrative

Client	TRAVISP	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Workorder	1075193	KIC		

Sample ID		Client Sample ID

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

1075193001 **PS** **S-1**

AK101/8021B - BFB (surrogate) recovery does not meet QC goals (biased high) due to matrix interference.
AK102 - The pattern is consistent with a weathered middle distillate.

1075193002 **PS** **S-2**

AK101/8021B - BFB (surrogate) recovery does not meet QC goals (biased high) due to matrix interference.
AK102 - The pattern is consistent with a weathered middle distillate.

1075193003 **PS** **1**

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

1075193007 **PS** **5**

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

1075193008 **PS** **6**

AK101/8021B - BFB (surrogate) recovery does not meet QC goals (biased high) due to matrix interference.
AK102 - The pattern is consistent with a weathered middle distillate.

1075193009 **PS** **7**

AK101/8021B - BFB (surrogate) recovery does not meet QC goals (biased high) due to matrix interference.
AK102 - The pattern is consistent with a weathered middle distillate.

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

Melissa Shippey
Travis/Peterson
329 2nd Street
Fairbanks, AK 99701

Work Order:	1075193
	KIC
Client:	Travis/Peterson
Report Date:	October 31, 2007

Released by:
Stephen C. Ede
Alaska Division Technical Director
Stephen C. Ede 2007.10.31 12:55:23 - 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 001828 for NELAP (RCRA methods: 1010/1020, 1311, 6000/7000, 9040/9045, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

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.

Note: Soil samples are reported on a dry weight basis unless otherwise specified.

SGS

SGS Ref.#	1075193001	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 10:45
Client Sample ID	S-1	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

AK101/8021B - BFB (surrogate) recovery does not meet QC goals (biased high) due to matrix interference.
AK102 - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	67.9	3.49	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND	17.5	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND	69.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	73.9	69.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	662	69.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	462	69.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates									
4-Bromofluorobenzene <surr>	419 !		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	91		%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	1920	211	mg/Kg	AK102	B		10/24/07	10/30/07	HKG
Surrogates									
5a Androstane <surr>	78.4		%	AK102	B	50-150	10/24/07	10/30/07	HKG
Solids									
Total Solids	93.7		%	SM20 2540G	B			10/22/07	BEN

SGS

SGS Ref.#	1075193002	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 10:50
Client Sample ID	S-2	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

AK101/8021B - BFB (surrogate) recovery does not meet QC goals (biased high) due to matrix interference.
AK102 - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	46.9	2.84	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND	14.2 ok	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND	56.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	116	56.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	487	56.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	1700	56.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates									
4-Bromofluorobenzene <surr>	374 !		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	86.1		%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	1810	213	mg/Kg	AK102	B		10/24/07	10/30/07	HKG
Surrogates									
5a Androstane <surr>	76.4		%	AK102	B	50-150	10/24/07	10/30/07	HKG
Solids									
Total Solids	92.7		%	SM20 2540G	B			10/22/07	BEN

SGS

SGS Ref.#	1075193003	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 11:00
Client Sample ID	1	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**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
Volatile Fuels Department									
Gasoline Range Organics	ND	2.35	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND	11.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND	47.1	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	ND	47.1	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	ND	47.1	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	ND	47.1	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates									
4-Bromofluorobenzene <surr>	90.5		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	88.4		%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	120	22.5	mg/Kg	AK102	B		10/24/07	10/30/07	HKG
Surrogates									
5a Androstane <surr>	84.1		%	AK102	B	50-150	10/24/07	10/30/07	HKG
Solids									
Total Solids	88.1		%	SM20 2540G	B			10/22/07	BEN

SGS

SGS Ref.#	1075193004	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 11:05
Client Sample ID	2	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	ND	1.94	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND	9.69	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND	38.7	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	ND	38.7	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	ND	38.7	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	ND	38.7	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates									
4-Bromofluorobenzene <surr>	93.9		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	88.9		%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	ND	20.7	mg/Kg	AK102	B		10/24/07	10/30/07	HKG
Surrogates									
5a Androstane <surr>	78.6		%	AK102	B	50-150	10/24/07	10/30/07	HKG
Solids									
Total Solids	96.0		%	SM20 2540G	B			10/22/07	BEN

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SGS Ref.#	1075193005	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 11:10
Client Sample ID	3	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	ND	2.31	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND	11.6	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND	46.2	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	ND	46.2	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	ND	46.2	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	ND	46.2	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates									
4-Bromofluorobenzene <surr>	85.9		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	89.8		%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	ND	21.3	mg/Kg	AK102	B		10/24/07	10/30/07	HKG
Surrogates									
5a Androstane <surr>	88.1		%	AK102	B	50-150	10/24/07	10/30/07	HKG
Solids									
Total Solids	92.3		%	SM20 2540G	B			10/22/07	BEN

SGS

SGS Ref.#	1075193006	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 11:15
Client Sample ID	4	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	ND	1.30	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND	6.48	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND	25.9	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	ND	25.9	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	ND	25.9	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	ND	25.9	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates									
4-Bromofluorobenzene <surr>	94.5		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	90.4		%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	ND	20.7	mg/Kg	AK102	B		10/24/07	10/30/07	HKG
Surrogates									
5a Androstane <surr>	78.4		%	AK102	B	50-150	10/24/07	10/30/07	HKG
Solids									
Total Solids	96.3		%	SM20 2540G	B			10/22/07	BEN

SGS

SGS Ref.#	1075193007	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 11:20
Client Sample ID	5	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**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
Volatile Fuels Department									
Gasoline Range Organics	ND	1.99	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND	9.96	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND	39.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	ND	39.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	ND	39.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	ND	39.8	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates									
4-Bromofluorobenzene <surr>	113		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	90.5		%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	332	21.2	mg/Kg	AK102	B		10/24/07	10/30/07	HKG
Surrogates									
5a Androstane <surr>	87.2		%	AK102	B	50-150	10/24/07	10/30/07	HKG
Solids									
Total Solids	93.9		%	SM20 2540G	B			10/22/07	BEN

SGS

SGS Ref.#	1075193008	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 11:25
Client Sample ID	6	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

AK101/8021B - BFB (surrogate) recovery does not meet QC goals (biased high) due to matrix interference.
AK102 - The pattern is consistent with a weathered middle distillate.

Parameter	Results		PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department										
Gasoline Range Organics	13.1		2.03	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND		10.1	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND		40.5	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	ND		40.5	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	109		40.5	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	347		40.5	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates										
4-Bromofluorobenzene <surr>	302	!		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	88.8			%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Semivolatile Organic Fuels Department										
Diesel Range Organics	990		87.4	mg/Kg	AK102	B		10/24/07	10/30/07	HKG
Surrogates										
5a Androstane <surr>	88.6			%	AK102	B	50-150	10/24/07	10/30/07	HKG
Solids										
Total Solids	90.5			%	SM20 2540G	B			10/22/07	BEN

SGS

SGS Ref.#	1075193009	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 11:30
Client Sample ID	7	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

AK101/8021B - BFB (surrogate) recovery does not meet QC goals (biased high) due to matrix interference.
AK102 - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	15.9	2.09	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND	10.5	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND	41.9	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	ND	41.9	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	172	41.9	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	118	41.9	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates									
4-Bromofluorobenzene <surr>	334 !		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	87		%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	880	88.5	mg/Kg	AK102	B		10/24/07	10/30/07	HKG
Surrogates									
5a Androstane <surr>	75		%	AK102	B	50-150	10/24/07	10/30/07	HKG
Solids									
Total Solids	89.9		%	SM20 2540G	B			10/22/07	BEN

SGS

SGS Ref.#	1075193010	**All Dates/Times are Alaska Standard Time**	
Client Name	Travis/Peterson	**Printed Date/Time**	10/31/2007 10:42
Project Name/#	KIC	**Collected Date/Time**	10/16/2007 11:40
Client Sample ID	Trip Blank	**Received Date/Time**	10/18/2007 8:55
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	ND	2.69	mg/Kg	AK101	A		10/16/07	10/20/07	HM
Benzene	ND	13.4	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Toluene	ND	53.7	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Ethylbenzene	ND	53.7	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
P & M -Xylene	ND	53.7	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
o-Xylene	ND	53.7	ug/Kg	SW8021B	A		10/16/07	10/20/07	HM
Surrogates									
4-Bromofluorobenzene <surr>	101		%	AK101	A	50-150	10/16/07	10/20/07	HM
1,4-Difluorobenzene <surr>	87.5		%	SW8021B	A	80-120	10/16/07	10/20/07	HM
Solids									
Total Solids	100		%	SM20 2540G	A			10/22/07	BEN

SGS Ref.#	800222	Method Blank	**Printed Date/Time**		10/31/2007 10:42
Client Name	Travis/Peterson		**Prep**	**Batch**	VXX17560
Project Name/#	KIC			**Method**	AK101
Matrix	Soil/Solid			**Date**	10/19/2007

QC results affect the following production samples:

1075193001, 1075193002, 1075193003, 1075193004, 1075193005, 1075193006, 1075193007, 1075193008, 1075193009, 1075193010

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Volatile Fuels Department					
Gasoline Range Organics	ND	2.50	0.500	mg/Kg	10/19/07
Surrogates					
4-Bromofluorobenzene <surr>	103	50-150		%	10/19/07
Batch VFC8698					
Method AK101					
Instrument HP 5890 Series II PID+FID VCA					
Benzene	ND	12.5	4.00	ug/Kg	10/19/07
Toluene	ND	50.0	15.0	ug/Kg	10/19/07
Ethylbenzene	ND	50.0	15.0	ug/Kg	10/19/07
P & M -Xylene	ND	50.0	15.0	ug/Kg	10/19/07
o-Xylene	ND	50.0	15.0	ug/Kg	10/19/07
Surrogates					
1,4-Difluorobenzene <surr>	93.4	80-120		%	10/19/07
Batch VFC8698					
Method SW8021B					
Instrument HP 5890 Series II PID+FID VCA					

SGS Ref.#	800784	Method Blank	**Printed Date/Time**		10/31/2007 10:42
Client Name	Travis/Peterson		**Prep**	**Batch**	
Project Name/#	KIC			**Method**	
Matrix	Soil/Solid			**Date**	

QC results affect the following production samples:

1075193001, 1075193002, 1075193003, 1075193004, 1075193005, 1075193006, 1075193007, 1075193008, 1075193009, 1075193010

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Solids					
Total Solids	100			%	10/22/07
Batch SPT7471					
Method SM20 2540G					
Instrument					

SGS Ref.#	801225	Method Blank	**Printed Date/Time**		10/31/2007 10:42
Client Name	Travis/Peterson		**Prep**	**Batch**	XXX18783
Project Name/#	KIC			**Method**	SW3550B
Matrix	Soil/Solid			**Date**	10/24/2007

QC results affect the following production samples:

1075193001, 1075193002, 1075193003, 1075193004, 1075193005, 1075193006, 1075193007, 1075193008, 1075193009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic Fuels Department					
Diesel Range Organics	ND	20.0	2.00	mg/Kg	10/27/07
Surrogates					
5a Androstane <surr>	89.3	60-120		%	10/27/07

Batch XFC7706
Method AK102
Instrument HP 5890 Series II FID SV C F

SGS

SGS Ref.#	800785	Duplicate	**Printed Date/Time**		10/31/2007 10:42
Client Name	Travis/Peterson		**Prep**	**Batch**	
Project Name/#	KIC			**Method**	
Original	1075191001			**Date**	
Matrix	Soil/Solid				

QC results affect the following production samples:

1075193001, 1075193002, 1075193003, 1075193004, 1075193005, 1075193006, 1075193007, 1075193008, 1075193009, 1075193010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Solids						
Total Solids	96.6	95.2	%	2	(< 5)	10/22/2007

Batch SPT7471
Method SM20 2540G
Instrument

SGS

SGS Ref.#	800223	Lab Control Sample	**Printed Date/Time**	10/31/2007	10:42
	800224	Lab Control Sample Duplicate	**Prep Batch**	VXX17560	
Client Name	Travis/Peterson		**Method**	AK101	
Project Name/#	KIC		**Date**	10/19/2007	
Matrix	Soil/Solid				

QC results affect the following production samples:

1075193001, 1075193002, 1075193003, 1075193004, 1075193005, 1075193006, 1075193007, 1075193008, 1075193009, 1075193010

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Fuels Department								
Benzene	LCS	1210	97	(80-125)			1250 ug/Kg	10/19/2007
	LCSD	1180	94		3	(< 20)	1250 ug/Kg	10/19/2007
Toluene	LCS	1240	99	(85-120)			1250 ug/Kg	10/19/2007
	LCSD	1240	99		0	(< 20)	1250 ug/Kg	10/19/2007
Ethylbenzene	LCS	1280	102	(85-125)			1250 ug/Kg	10/19/2007
	LCSD	1270	101		1	(< 20)	1250 ug/Kg	10/19/2007
P & M -Xylene	LCS	2590	104	(85-125)			2500 ug/Kg	10/19/2007
	LCSD	2560	102		1	(< 20)	2500 ug/Kg	10/19/2007
o-Xylene	LCS	1260	101	(85-125)			1250 ug/Kg	10/19/2007
	LCSD	1240	100		1	(< 20)	1250 ug/Kg	10/19/2007
Surrogates								
1,4-Difluorobenzene <surr>	LCS		97	(80-120)				10/19/2007
	LCSD		97		0			10/19/2007

Batch	VFC8698
Method	SW8021B
Instrument	HP 5890 Series II PID+FID VCA

SGS Ref.#	800225	Lab Control Sample	**Printed Date/Time**	10/31/2007	10:42
	800226	Lab Control Sample Duplicate	**Prep Batch**	VXX17560	
Client Name	Travis/Peterson		**Method**	AK101	
Project Name/#	KIC		**Date**	10/19/2007	
Matrix	Soil/Solid				

QC results affect the following production samples:

1075193001, 1075193002, 1075193003, 1075193004, 1075193005, 1075193006, 1075193007, 1075193008, 1075193009, 1075193010

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Fuels Department								
Gasoline Range Organics	LCS	10.7	95	(60-120)			11.3 mg/Kg	10/19/2007
	LCSD	10.9	97		2	(< 20)	11.3 mg/Kg	10/19/2007
Surrogates								
4-Bromofluorobenzene <surr>	LCS		106	(50-150)				10/19/2007
	LCSD		107		1			10/19/2007

Batch	VFC8698
Method	AK101
Instrument	HP 5890 Series II PID+FID VCA

SGS

SGS Ref.#	801226	Lab Control Sample	**Printed Date/Time**	10/31/2007	10:42
	801227	Lab Control Sample Duplicate	**Prep Batch**	XXX18783	
Client Name	Travis/Peterson		**Method**	SW3550B	
Project Name/#	KIC		**Date**	10/24/2007	
Matrix	Soil/Solid				

QC results affect the following production samples:

1075193001, 1075193002, 1075193003, 1075193004, 1075193005, 1075193006, 1075193007, 1075193008, 1075193009

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic Fuels Department								
Diesel Range Organics	LCS	35.2	106	(75-125)			33.2 mg/Kg	10/27/2007
	LCSD	36.2	110		3	(< 20)	32.9 mg/Kg	10/27/2007
Surrogates								
5a Androstane <surr>	LCS		95	(60-120)				10/27/2007
	LCSD		97		1			10/27/2007

Batch XFC7706
Method AK102
Instrument HP 5890 Series II FID SV C F

SGS

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

1075193

652

(1)

CLIENT: TRAVIS/PETERSON ENVIRONMENTAL

CONTACT: M. Shippey — PHONE NO: (907) 455-7225

PROJECT: KIC — SITE/PWSID# :

REPORTS TO: 329 2nd ST FAIRBANKS, AK 99708 — E-MAIL:

FAX NO.: (907) 455-7228

INVOICE TO: SAME — QUOTE #

P.O. NUMBER 1291-01

SGS Reference:

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP G=GRAB)	Preservative Used: MeOH	(3) Analysis Required: GRO/BTEX AK101	DRO AK102								REMARKS
1 A-B	S-1	10/16/07	1045	S	8	G		X	X								
2	S-2		1050		2			X	X								
3	1		1100		2			X	X								
4	2		1105		2			X	X								
5	3		1110		2			X	X								
6	4		1115		2			X	X								
7	5		1120		2			X	X								
8	6		1125		2			X	X								
9	7		1130		2			X	X								
10 A	TRIP BLANK		1140		1			X									

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:	Date	Time
Michael S Shippey	10/17/07	830 am.	KtFu	10/17/2007	0900
Relinquished By: (2)	**Date**	**Time**	**Received By:**	**Date**	**Time**
KtFu	10/17/07	0900			
Relinquished By: (3)	**Date**	**Time**	**Received By:**	**Date**	**Time**
Relinquished By: (4)	**Date**	**Time**	**Received By:**	**Date**	**Time**
			[illegible]	10/17/07	0855

(4)

Shipping Carrier: HAND

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature (C): 3.5 TB 2.5

Special Deliverable Requirements: LEVEL II

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time: STANDARD TURNAROUND

☐ RUSH _____ Date Needed ☒ STD

SGS

SAMPLE RECEIPT FORM

SGS WO#: 1075193

Yes	No	NA	
	X		Are samples RUSH, priority, or *w/n 72 hrs.* of hold time?
		X	If yes have you done *e-mail notification*?
	X		Are samples *within 24 hrs.* of hold time or due date?
		X	If yes, have you *spoken with* Supervisor?
		X	Archiving bottles – if req., are they properly marked?
	X		Are there any problems? PM Notified?
(15) X		✓	Were samples preserved correctly and pH verified?
	✓	X (16)	If this is for PWS, provide PWSID.
	✓	X (17)	Will courier charges apply?
		X	Method of payment?
X			Data package required? (Level: 1 / (2) / 3 / 4)
	X		Is this a DoD project? (USACE, Navy, AFCEE)

Notes:

Due Date: 10/31/07
Received Date: 10/12/07
Received Time: 0900
Is date/time conversion necessary? –
# of hours to AK Local Time: –
Thermometer ID: 710

Cooler ID	Temp Blank	Cooler Temp
1	2.5 °C	3.5 °C
	°C	°C
	°C	°C
	°C	°C
	°C	°C

*Temperature readings include thermometer correction factors

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

Airbill #

Additional Sample Remarks: (√ if applicable)

- ___ Extra Sample Volume?
- ___ Limited Sample Volume?
- X 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?
		Rad Screen performed? Result:
		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 COE / AFCEE / Navy 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?

Exceptions: Samples/Analyses Affected:

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): KSFr (print): KURT FRIEDENAUER

Login proof (check one): waived ____ required ____ performed by: JA

SGS

1075193

SGS WO#:

SAMPLE RECEIPT FORM FOR TRANSFERS
From
FAIRBANKS, ALASKA OR HONOLULU, HAWAII
To

ANCHORAGE, AK

TO BE COMPLETED IN ANCHORAGE UPON ARRIVAL FROM FAIRBANKS OR HAWAII. NOTES RECORDED BELOW ARE ACTIONS NEEDED UPON ARRIVAL IN ANCHORAGE.

Notes: _____

Receipt Date / Time: 10/18/07 0850

Is Sample Date/Time Conversion Necessary? Yes _____ **No** ✓

Number of Hours From Alaska Local Time: —

Foreign Soil? Yes _____ **No** ✓

Delivery method to Anchorage (*circle all that apply*):

Alert Courier / UPS / FedEx / USPS / AA Goldstreak / NAC / ERA / PenAir / Carlile / Lynden / SGS

Other: _____

Airbill # _____

COOLER AND TEMP BLANK READINGS*

Cooler ID	Temp Blank (°C)	Cooler (°C)	Cooler ID	Temp Blank (°C)	Cooler (°C)
1					

CUSTODY SEALS INTACT: YES / NO

#/WHERE: 2, 1 on front + 1 on back

COMPLETED BY: [signature]

**Temperature readings include thermometer correction factors.*

SGS

1075193

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL	125 mL	60 mL	40 mL	8oz (250 mL)	4oz (125 mL)	Other	Container Type: AG	CG	HDPE	Nalgene	Cubic	Coli	Septa	Other	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	Other
9	A	2	Gro, Btex										9		X						X						X			
	B	2	DRO									9			X								X							
10	A	2	Gro, Btex		X								1		X						X						X			
	Bottle Totals											9	10																	

Completed by: K. Ft

Date: 10/17/02

Documents and Settings\scastleberry FAIRBANKS\Local Settings\Temporary Internet Files\OLK10C\P004-16 Sample Receipt

SGS Environmental

CUSTODY SEAL

Signature: [illegible] Date/Time: 10/17/07

1075193

SGS Environmental

CUSTODY SEAL

Signature: Melissa S Gurgess Date/Time: 10/17/07

SGS Environmental

CUSTODY SEAL W05193 5194

Signature: K

Date/Time: 10/17/07 1720

SGS Environmental

CUSTODY SEAL W05193 5194

Signature: KRFrw

Date/Time: 10/17/07 1720

Laboratory Data Review Checklist

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
✓ Yes ○ No Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
○ Yes ✓ No Comments:

None transferred.

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?
✓ Yes ○ No Comments:

b. Correct analyses requested?
✓ Yes ○ No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
✓ Yes ○ No Comments:

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
✓ Yes ○ No Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?
✓ Yes ○ No Comments:

Good.

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/ preservation, sample temperature ouside of acceptance range, insufficient or missing samples, etc.?

○ Yes ○ No Comments:

None

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

✓ Yes ○ No Comments:

b. Discrepancies, errors or QC failures identified by the lab?

✓ Yes ○ No Comments:

Surrogate recoveries - see lab report. Samples are biased high,

c. Were all corrective actions documented?

✓ Yes ○ No Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results biased high.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

✓ Yes ○ No Comments:

b. All applicable holding times met?

✓ Yes ○ No Comments:

c. All soils reported on a dry weight basis?

✓ Yes ○ No Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

(✓) Yes ( ) No Comments:

e. Data quality or usability affected? Explain.

Comments:

N/A

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(✓) Yes ( ) No Comments:

ii. All method blank results less than PQL?

(✓) Yes ( ) No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

v. Data quality or usability affected? Explain.

Comments:

N/A

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

(✓) Yes ( ) No Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes (✓) No Comments:

No metals samples.

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☑ Yes ○ No Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

☑ Yes ○ No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

○ Yes ○ No Comments:

N/A

vii. Data quality or usability affected? Explain.

Comments:

N/A

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

☑ Yes ○ No Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

☑ Yes ○ No Comments:

Reported - yes. 4 of the samples had surrogate recoveries that did not meet QC goals.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

☑ Yes ○ No Comments:

iv. Data quality or usability affected? Explain.

Comments:

-Possibly - Case narrative states results are biased high.

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

☑ Yes ○ No Comments:

ii. All results less than PQL?

☑ Yes ○ No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☑ Yes ○ No Comments:

ii. Submitted blind to lab?

☑ Yes ○ No Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

○ Yes ○ No Comments:

Do not see RPD's reported for the duplicate sample No 7.

iv. Data quality or usability affected?

○ Yes ☑ No Comments:

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ✓ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ✓ No Comments:

Completed by: MELISSA S. SHIPPEY

Title: STAFF SCIENTIST Date: 11/02/07

Report Name: KIC - # 1075193 Report Date: 10/31/07

Firm: TRAVIS/PETERSON ENVIRONMENTAL CONSULTANTS, INC. File Number:

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