



ENVIRONMENTAL ENGINEERING, HEALTH, & SAFETY
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info@nortechengr.com www.nortechengr.com

December 18, 2006

Faxed to 888-251-6069

State Farm Fire and Casualty Company
PO Box 437
DuPont, WA 98327

Claim Number
02-G023-418

ADEC File 100.38.190

Attn: Ronnie Lee

**RE: 2006 Annual Groundwater Sampling Results
814 Gold Mine Trail**

Mr. Lee:

In accordance with our proposal, **NORTECH** Environmental Engineering, Health, and Safety (**NORTECH**) completed the 2006 groundwater sampling event at the residence located at 814 Gold Mine Trail in Fairbanks (the Site). These activities were requested by ADEC in a letter dated January 4, 2006 and completed in general accordance with **NORTECH**'s proposal dated March 29, 2006.

Site Background

The drinking water well at the 814 Gold Mine Trail residence was determined to be contaminated with fuel during a property transaction during 2004. The source of contamination was determined to be leaking underground fittings located in the fuel line between the buried heating oil tank and the structures two furnaces. The tank was removed and soil remediation was undertaken during the winter of 2005. A single monitoring well was installed downhill of the release location as the hydraulic gradient was assumed to be similar to the steep surface contours.

The monitoring well was installed in May and June of 2005 and consists of 80 feet of six-inch steel casing and 140 feet of 4.5-inch plastic liner. The total depth of the well is approximately 200 feet with water bearing schist beginning at 125 feet below the ground surface. The plastic liner is perforated from 100 to 200 feet below grade.

Field Activities

NORTECH mobilized to the site to measure the depth to water and sample the monitoring well on May 25, 2006. The depth to water was measured at 84.23 feet below the top of the casing. **NORTECH** initially expected that the purging and sampling could be completed with a bailer, however this was abandoned due to the volume of purging necessary and **NORTECH** made arrangements to return to the site the following day with a decontaminated submersible pump.

On May 26, 2006 **NORTECH** brought a submersible pump system to the site to complete the groundwater purging and sampling. The well produced up to 10 gallons a minute, but the water was very rusty and turbid. The flow rate was reduced to about 4 gallons a minute and became less turbid after about 50 minutes, but never cleared up





completely. This was consistent with the previous sampling event and the samples were collected after purging approximately 250 gallons. Purge water was disposed of on site based on previous results and samples were collected for diesel range organics (DRO, Method AK102) and benzene toluene, ethylbenzene, and xylenes (BTEX, EPA Method 524.2 for drinking water). These samples were delivered to SGS Environmental Services for analyses under a standard chain of custody.

Results, Conclusions, and Recommendations

The results from this sample are summarized and compared to the previous sampling event in Table 1, which is attached. A copy of the laboratory report is also attached with a completed laboratory quality review checklist as required by ADEC.

Benzene, toluene, ethylbenzene, and xylenes (BTEX) and diesel range organics (DRO) are the contaminants of concern at this site. BTEX compounds were not detected in the monitoring well during the 2005 and 2006 sampling events. A trace amount of DRO was detected at a concentration below the cleanup level in 2005 and the pattern was not consistent with diesel fuel or heating oil. DRO was not detected in 2006 indicating the previous detection of DRO is probably not a concern. Review of the laboratory data indicates that it meets the quality objectives for this project.

The 2006 sampling event was completed in accordance with the ADEC approved work plan for groundwater sampling and represents the second sampling event for the property. ADEC typically requires a minimum of three consecutive groundwater sampling events and **NORTECH** recommends completing the approved 2007 groundwater sampling event as planned. At that time, the data will be reviewed for potential conditional closure by ADEC.

We trust that this information is sufficient for your needs at the present time. Please call if you have any questions or comments about the proposed scope or estimate. We look forward to the opportunity to work with you on this project and appreciate your confidence in **NORTECH**.

Sincerely,
NORTECH

Peter Beardsley, PE
Environmental Engineer

Attachments: Table 1
Lab Report and Checklist

Cc: Kim DeRuyter, ADEC Contaminated Sites (via email)



Table 1
Current and Historical Groundwater Monitoring Well Results

Date	Sample ID	DRO	Benzene	Toluene	Ethyl benzene	Total Xylenes	Lab Comment
		mg/L	mg/L	mg/L	mg/L	mg/L	
		1.5	0.005	1	0.7	10	
11-Jul-05	NW-1*	0.417	ND(0.00050)	ND(0.0020)	ND(0.0020)	ND(0.0020)	UNH
11-Jul-05	NW-2**	ND(0.316)	ND(0.00050)	ND(0.0020)	ND(0.0020)	ND(0.0020)	
25-May-06	DT-GMW-1	ND(0.300)	ND(0.00050)	ND(0.00050)	ND(0.00050)	ND(0.001)	

- Notes: ND(X.XX) Compound was not detected at the PQL specified
 * Sample Results from RE&C September 1, 2005 Report
 ** Field duplicate NW-1, Sample Results from RE&C September 1, 2005 Report
- | | |
|-------------|--|
| NT | Sample not tested for this analyte |
| shade | Result is above detection limit, but below ADEC regulatory limit |
| bold | Result is above ADEC regulatory limit |
- UNH Unknown hydrocarbon present, not consistent with a diesel pattern



**SGS Environmental Services
Alaska Division
Level II Laboratory Data Report**

Project: 814 Gold Mine Trail
Client: Nortech
SGS Work Order: 1062651

Released by:

Barbara A. Hager 
Barbara Hager
Alaska Division Project Manager

2006.06.05
15:02:41 -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.



Case Narrative

Client NORTECH Nortech
Workorder 1062651 814 Gold Mine Trail

Printed Date/Time 6/5/2006 13:28

Sample ID **Client Sample ID**

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

704828 MB MB for HBN 172536 [VXX/15409]
524.2 - MB result for naphthalene is above one half PQL but below PQL. Naphthalene is below PQL for all associated samples.

704834 CCV CCV for HBN 172537 [VMS/8391]
524.2 - CCV recovery for vinyl chloride @ 136% (limit is 130%). This analyte is below PQL for all associated samples.



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>

Dennis Shepard
Nortech
2400 College Rd
Fairbanks, AK 99709

Work Order: 1062651
814 Gold Mine Trail
Client: Nortech
Report Date: June 05, 2006

Released by:

Barbara Hager
Barbara Hager
Alaska Division Project Manager

2006.06.05 15:03:00
-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 001543 for NELAP.

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 Ref.# 1062651001
Client Name Nortech
Project Name/# 814 Gold Mine Trail
Client Sample ID DT-GMW-1
Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time
Printed Date/Time 06/05/2006 13:28
Collected Date/Time 05/26/2006 12:25
Received Date/Time 05/27/2006 11:45
Technical Director Stephen C. Ede

PWSID 0

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>VOLATILES GC/MS</u>									
Benzene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/03/06	DKH
Toluene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/03/06	DKH
Ethylbenzene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/03/06	DKH
P & M -Xylene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/03/06	DKH
o-Xylene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/03/06	DKH
Xylenes (total)	ND	1.0	ug/L	EPA 524.2	A		06/02/06	06/03/06	DKH
Surrogates									
1,2-Dichloroethane-D4 <surr>	110		%	EPA 524.2	A	85-120	06/02/06	06/03/06	DKH
Toluene-d8 <surr>	100		%	EPA 524.2	A	85-115	06/02/06	06/03/06	DKH
4-Bromofluorobenzene <surr>	107		%	EPA 524.2	A	85-120	06/02/06	06/03/06	DKH
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	ND	0.300	mg/L	AK102	D		05/31/06	06/01/06	MCM
Surrogates									
5a Androstane <surr>	90.8		%	AK102	D	50-150	05/31/06	06/01/06	MCM



SGS Ref.# 1062651002
Client Name Nortech
Project Name/# 814 Gold Mine Trail
Client Sample ID Trip Blank
Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time
Printed Date/Time 06/05/2006 13:28
Collected Date/Time 05/26/2006 12:25
Received Date/Time 05/27/2006 11:45
Technical Director Stephen C. Ede

PWSID 0

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>VOLATILES GC/MS</u>									
Benzene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/02/06	DKH
Toluene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/02/06	DKH
Ethylbenzene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/02/06	DKH
P & M -Xylene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/02/06	DKH
o-Xylene	ND	0.50	ug/L	EPA 524.2	A		06/02/06	06/02/06	DKH
Xylenes (total)	ND	1.0	ug/L	EPA 524.2	A		06/02/06	06/02/06	DKH
Surrogates									
1,2-Dichloroethane-D4 <surr>	107		%	EPA 524.2	A	85-120	06/02/06	06/02/06	DKH
Toluene-d8 <surr>	99.4		%	EPA 524.2	A	85-115	06/02/06	06/02/06	DKH
4-Bromofluorobenzene <surr>	108		%	EPA 524.2	A	85-120	06/02/06	06/02/06	DKH



SGS Ref.# 703749 Method Blank
Client Name Nortech
Project Name/# 814 Gold Mine Trail
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 06/05/2006 13:28
Prep Batch XXX16786
Method SW3510C
Date 05/31/2006

QC results affect the following production samples:
1062651001

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Semivolatile Organic Fuels Department

Diesel Range Organics	ND	0.300	0.0600	mg/L	06/01/06
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Surrogates

5a Androstane <surr>	77.9	60-120		%	06/01/06
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Batch XFC6980
Method AK102
Instrument HP 5890 Series II FID SV A F



SGS Ref.# 704828 Method Blank
Client Name Nortech
Project Name/# 814 Gold Mine Trail
Matrix Drinking Water

Printed Date/Time 06/05/2006 13:28
Prep Batch VXX15409
Method SW5030B
Date 06/02/2006

QC results affect the following production samples:
1062651001, 1062651002

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>					
Benzene	ND	0.50	0.15	ug/L	06/02/06
Ethylbenzene	ND	0.50	0.15	ug/L	06/02/06
o-Xylene	ND	0.50	0.15	ug/L	06/02/06
P & M -Xylene	ND	0.50	0.15	ug/L	06/02/06
Toluene	ND	0.50	0.15	ug/L	06/02/06
Xylenes (total)	ND	1.0	0.31	ug/L	06/02/06
Surrogates					
1,2-Dichloroethane-D4 <surr>	103	85-120		%	06/02/06
4-Bromofluorobenzene <surr>	108	85-120		%	06/02/06
Toluene-d8 <surr>	101	85-115		%	06/02/06
Batch	VMS8391				
Method	EPA 524.2				
Instrument	HP 5890 Series II MS1 VJA				



SGS Ref.# 703750 Lab Control Sample
703751 Lab Control Sample Duplicate
Client Name Nortech
Project Name/# 814 Gold Mine Trail
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 06/05/2006 13:28
Prep Batch XXX16786
Method SW3510C
Date 05/31/2006

QC results affect the following production samples:

1062651001

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Semivolatile Organic Fuels Department

Diesel Range Organics	LCS	0.757	76	(75-125)		1 mg/L	06/01/2006
	LCSD	0.754	75		0	(< 20)	1 mg/L 06/01/2006

Surrogates

5a Androstane <surr>	LCS		74	(60-120)			06/01/2006
	LCSD		76		2		06/01/2006

Batch XFC6980
Method AK102
Instrument HP 5890 Series II FID SV A F



SGS Ref.# 704829 Lab Control Sample

Printed Date/Time 06/05/2006 13:28
Prep Batch VXX15409
Method SW5030B
Date 06/02/2006

Client Name Nortech
Project Name/# 814 Gold Mine Trail
Matrix Drinking Water

QC results affect the following production samples:
1062651001, 1062651002

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>							
Benzene	LCS	18	92	(81-120)		20 ug/L	06/02/2006
Ethylbenzene	LCS	22	110	(85-120)		20 ug/L	06/02/2006
o-Xylene	LCS	21	103	(81-118)		20 ug/L	06/02/2006
P & M -Xylene	LCS	43	107	(81-120)		40 ug/L	06/02/2006
Toluene	LCS	20	101	(80-118)		20 ug/L	06/02/2006
Xylenes (total)	LCS	64	*				06/02/2006
Surrogates							
1,2-Dichloroethane-D4 <surr>	LCS		102	(85-120)			06/02/2006
4-Bromofluorobenzene <surr>	LCS		101	(85-120)			06/02/2006
Toluene-d8 <surr>	LCS		101	(85-115)			06/02/2006

Batch VMS8391
Method EPA 524.2
Instrument HP 5890 Series II MS1 VJA



SAMPLE RECEIPT FORM

SGS WO#:

Yes No NA

- Are samples RUSH, priority, or w/n 72 hrs. of hold time?
If yes have you done e-mail notification?
Are samples within 24 hrs. of hold time or due date?
If yes, have you spoken with Supervisor?
Archiving bottles - if req., are they properly marked?
Are there any problems? PM Notified?
Were samples preserved correctly and pH verified?

Due Date: 6-12-06

Received Date: 5-26-06

Received Time: 1255

Is date/time conversion necessary?

of hours to AK Local Time:

Thermometer ID: longstem B

Cooler ID Temp Blank Cooler Temp

1 1.3 C 5.1 C

C C C

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*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?

Field preserved for volatiles?

Field-filtered for dissolved?

Lab-filtered for dissolved?

Ref Lab required?

Foreign Soil?

Foreign Soil?

Foreign Soil?

Foreign Soil?

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Foreign Soil?

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:

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 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?

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): Sunny Castleberry (print): Sunny Castleberry

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



SGS WO#:

1062651



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: 5/27/06 1145
 Is Sample Date/Time Conversion Necessary? Yes _____ No X
 Number of Hours From Alaska Local Time:
 Foreign Soil? Yes _____ No X

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)
<u>1</u>	<u>5.7</u>	<u>3.2</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CUSTODY SEALS INTACT: YES / NO
 # / WHERE: 2 front/back

COMPLETED BY: Brenda Sheets

*Temperature readings include thermometer correction factors.

106265

SGS Environmental

CUSTODY SEAL

Signature: Sunny Costello

Date/Time: 5-26-06 1640

SGS Environmental

CUSTODY SEAL

Signature: Sunny Costello

Date/Time: 5-26-06 1640

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:

NA

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 ($4^{\circ} \pm 2^{\circ} \text{C}$)?

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:

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

Yes No

Comments:

NA

e. Data quality or usability affected? Explain.

Comments:

No

4. Case Narrative

a. Present and understandable?

Yes No

Comments:

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

Yes No

Comments:

c. Were all corrective actions documented?

Yes No

Comments:

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

Comments:

None

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:

NA

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:

No

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:

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

Yes No

Comments:

v. Data quality or usability affected? Explain.

Comments:

No

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:

NA

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:

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

Yes No

Comments:

vii. Data quality or usability affected? Explain.

Comments:

No

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:

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:

No

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:

iv. Data quality or usability affected? Explain.

Comments:

No

e. Field Duplicate

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

Yes No

Comments:

No Field Dup due to single sample as approved in work plan

ii. Submitted blind to lab?

Yes No

Comments:

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

$$RPD (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No

Comments:

iv. Data quality or usability affected? Explain.

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:

iii. Data quality or usability affected? Explain.

Comments:

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

a. Defined and appropriate?

Yes No

Comments:

Completed by:

Title:

Date:

CS Report Name:

Report Date:

Consultant Firm:

Laboratory Name:

Laboratory Report Number:

ADEC File Number:

ADEC RecKey Number: