



November 8, 2007

Mr. Stephen Wilson
Crowley Maritime Corporation
1102 SW Massachusetts St.
Seattle, WA 98124
Via e-mail: Stephen.Wilson@crowley.com

Re: Kotzebue Lot M Hangar Site Assessment Report

Dear Mr. Wilson:

This letter report summarizes the results of a baseline environmental assessment conducted by OASIS Environmental, Inc. (OASIS) at the Crowley Marine Services, Inc. (Crowley) Kotzebue Hangar Facility. The Hangar is located on Lot M, Block 1, and is leased from the Alaska Department of Transportation and Public Facility (DOT&PF) under lease ADA-71219. Kotzebue is located at the north end of the Baldwin Peninsula in Kotzebue Sound; approximately 550 air miles northwest of Anchorage, Alaska (Figure 1).

Associated attachments to this report include:

- Figures 1 through 4 depicting sample locations and adjacent land use (Attachment A);
- Table 1 summarizing analytical results and Table 2 summarizing ADEC contaminated sites (Attachment B);
- Photo-documentation (Attachment C); and
- Analytical data results (Attachment D).

BACKGROUND

Crowley currently leases Lot M of Block 1 at the Ralph Wien Memorial Airport in Kotzebue, Alaska (see Figure 2). The lot is 60 feet wide and 125 feet deep, with one hangar building. The southern portion of the lot (3,000 square feet) is paved. The hangar building measures approximately 31 feet wide by 42 feet deep, with hangar doors abutting the paved portion of the site. The floor of the hangar is gravel and has a thick liner located 1.5 feet below clean gravel. The liner comes up the sides of three of the four interior walls of the hangar. The hangar building is used to house two fueling trucks.

FIELD ACTIVITIES

OASIS mobilized to the site on October 12, 2007 to collect surface and subsurface soil samples at the hangar property. At each of five locations, test pits were installed to permafrost (Figure 3). The depth of excavation was limited by permafrost, which ranged from 5.5 to 7 feet below ground surface (bgs). Although groundwater was expected above permafrost, no groundwater was encountered during test

pitting. At each test pit, OASIS collected soil samples from three intervals: surface soils; from approximately 3 feet bgs; and, from the bottom of each excavation. Two re-sealable bags were partially filled with soils at each of the three sampling intervals. One bag was placed on ice, and the second bag was warmed for photo ionization detector (PID) field screening using Alaska Department of Environmental Conservation's (ADEC's) headspace method. Once all three intervals were field screened, OASIS chose the sample interval with the highest PID reading for off-site analysis, using the second bag for filling sample containers.

Test Pit No. 1 was located in the center of the hangar building. Initial excavation of this test pit included removal of 1.5 feet of gravel fill that is located on top of a liner that lines the entire building floor. OASIS collect a field screening sample of this gravel material for PID field screening and obtained a reading of 0 parts per million (ppm) above background. Once the first 1.5 feet of gravel was removed exposing the liner, the liner was cut and folded back. Poly sheeting was laid out for temporary placement of excavated soils from below the liner. The following field screening samples, depths, and results were obtained at Test Pit No. 1 from below the liner:

Test Pit 1		
Field No.	Depth (feet)	PPM
T1-1	1.5 to 2	1,140
T1-2	3 to 3.5	205
T1-3	5 to 5.5	82

Excavated soils at Test Pit No. 1 were backfilled into the hole, and the liner was patched by Crowley. Because of soil fluffing during excavation, not all soils were placed back into the hole. Crowley drummed these remaining soils for off-site disposal with their normal operations waste stream.

Test Pit No. 2 was located at the southwest corner of the Hangar, on the north edge of the airfield tarmac. The excavation was extended to 5.8 feet bgs. The following field screening samples, depths, and results were obtained at Test Pit No. 2:

Test Pit 2		
Field No.	Depth (feet)	PPM
T2-1	0 to 1	0.4
T2-2	3	79
T2-3	5.8	1.8

Test Pit No. 3 was located at the northwest corner of the lot. OASIS noted an underground storage tank located 13 feet west of the test pit location, on adjacent Lot L. The following field screening samples, depths, and results were obtained at Test Pit No. 3:

Test Pit 3		
Field No.	Depth (feet)	PPM
T3-1	0 to 1	0.4
T3-2	3	95
T3-3	6.5	14.9

← site cleanup of material soil?

Test Pit No. 4 was located at the southeast corner of the lot, on the north edge of the airfield tarmac. The following field screening samples, depths, and results were obtained at Test Pit No. 4:

Test Pit 4		
Field No.	Depth (feet)	PPM
T4-1	0 to 1	1.7
T4-2	3.5	1.6
T4-3	7	1.1

Test Pit No. 5 was located at the northeast corner of the lot. The following field screening samples, depths, and results were obtained at Test Pit No. 5:

Test Pit 5		
Field No.	Depth (feet)	PPM
T5-1	0 to 1	1.4
T5-2	3	9.9
T5-3	7	0.9

ANALYTICAL RESULTS

OASIS collected a total of seven project samples, one duplicate sample, and one volatiles trip blank for analysis by TestAmerica, Inc., in Anchorage, Alaska.

Samples were analyzed for gasoline-range organics (GRO), diesel-range organics (DRO), and residual-range organics (RRO), and benzene, ethylbenzene, toluene, xylenes (BTEX). Table 1 (Attachment B) summarizes the analytical results. Sample results for DRO, GRO, and RRO are compared to ADEC Method 1 Soil Cleanup Levels found in Table A2 of 18 AAC 75. BTEX concentrations are compared to ADEC Method 2 Cleanup Levels found in Table B1 of 18 AAC 75.341. Laboratory data verification and quality assurance are presented with the analytical data in Attachment D.

OASIS collected three samples for off site analysis, one from each sampling interval at Test Pit No. 1. Sample no. 07-CLM-T1-01 was collected from soils just below the liner. Sample no. 07-CLM-T1-02 was collected from approximately 3 to 3.5 feet bgs and sample no. 07-CLM-T1-03 was collected from the bottom of the excavation at approximately 5.5 feet bgs. This location had the highest PID field screening readings, with PID reading decreased with depth to a low of 82 ppm. GRO results from all three samples exceeded the ADEC cleanup value of 100 ppm.

At Test Pit No. 2, OASIS collected Sample No. 07-CLM-T2-02 from approximately 3 feet bgs. Sample no. 07-CLM-T2-02 contained DRO at 1,500, well above the ADEC cleanup value of 200 ppm for DRO in soils. GRO, RRO, and xylenes were detected at this location; however concentrations did not exceed ADEC cleanup levels.

At Test Pit No. 3, OASIS collected Sample No. 07-CLM-T3-02 from approximately 3 feet bgs. GRO, DRO, RRO and xylenes were detected in sample 07-CLM-T3-02, but below ADEC cleanup levels.

At Test Pit No. 4, OASIS collected Sample No. 07-CLM-T4-01 from approximately 0 to 1 foot bgs. DRO and RRO were detected in sample 07-CLM-T4-01, but below ADEC cleanup levels.

At Test Pit No. 5, OASIS collected Sample No. 07-CLM-T5-02 from approximately 3 feet bgs. DRO and RRO were detected in sample 07-CLM-T5-02, but below ADEC cleanup levels.

SURROUNDING LAND USE

OASIS contacted Ms. Penelope Adler at ADOT & PF to determine if the department maintained any records of fuel spills or other environmental impacts at the Lot M property or adjacent properties. Ms. Adler was not aware of any file information maintained by ADOT & PF.

OASIS contacted Ms. Anne Farris at ADEC, Fairbanks. Ms. Farris is the main ADEC contact for the Kotzebue Airport, and indicated a contractor has developed a work plan for conducting an area-wide investigation of subsurface soils and ground water fuel contamination at the Kotzebue Airport. ADEC maintains a file of reports and historical information for the Kotzebue area at the Fairbanks ADEC office.

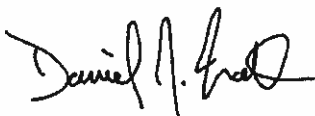
OASIS conducted a search of ADEC's contaminated sites databases on-line. A summary of ADEC listed sites collected from this database are presented in Table 2. Figure 4 displays the locations of contaminated sites.

CONCLUSIONS

Test pit sampling indicates GRO and DRO contamination of soils below the Hangar facility and extending to the west. The source of GRO and DRO contamination is not known and may be related to migration from other known or unknown contaminated sites at the Kotzebue Airport. Test Pits 3 and 4 were the cleanest on the eastern edge of the site.

Respectfully submitted,

OASIS Environmental, Inc.



Daniel Frank
Project Manager



Brad Authier
Principal

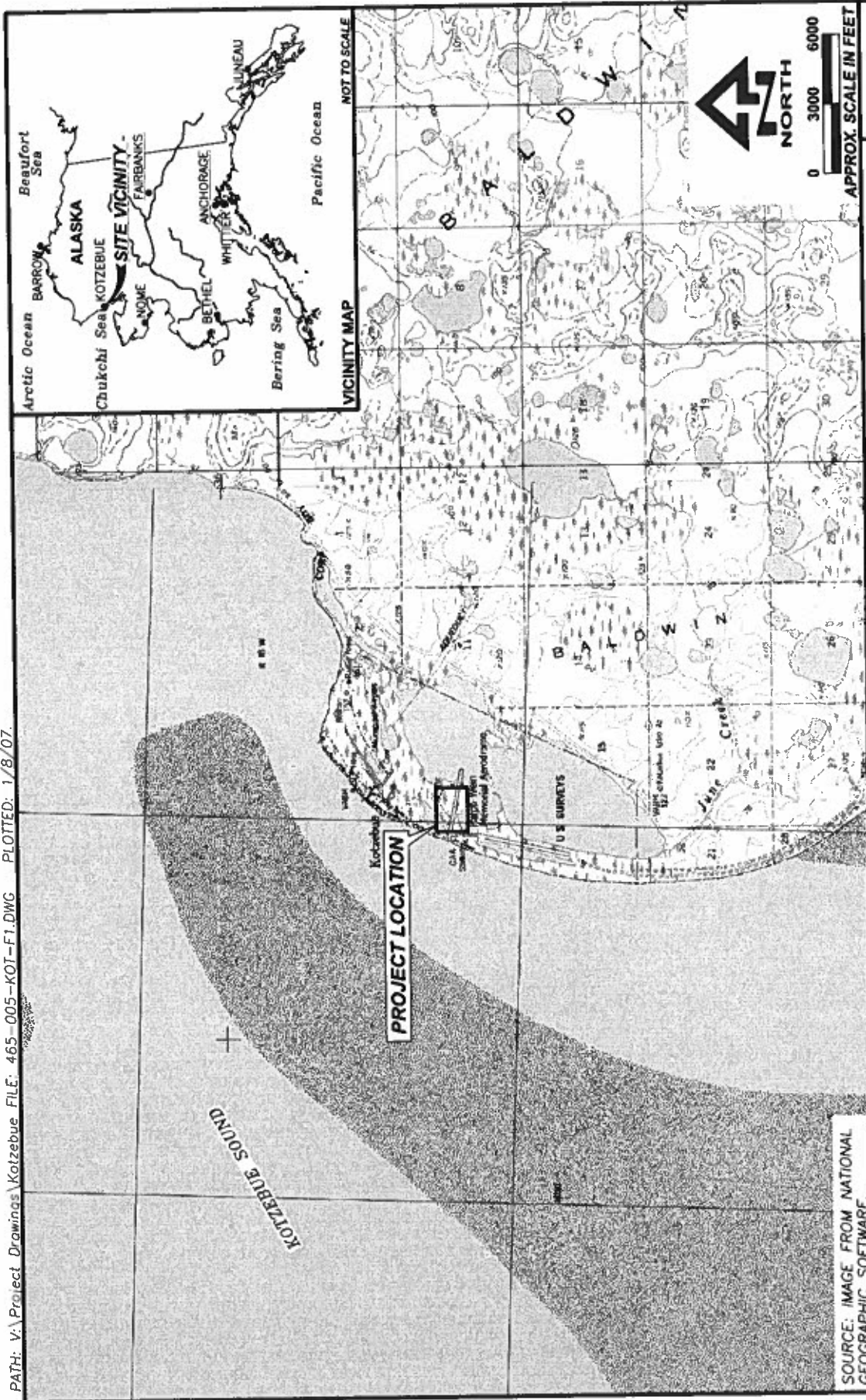
Attachments:

1. Attachment A – Figures
2. Attachment B – Tables
3. Attachment C – Photographic Log
4. Attachment D – Analytical Results

ATTACHMENT A

Figures

PATH: V:\Project Drawings\Kotzebue FILE: 465-005-KOT-F1.DWG PLOTTED: 1/8/07



SOURCE: IMAGE FROM NATIONAL GEOGRAPHIC SOFTWARE.

DATE: NOV. 2007
 CHKD: D.J.F.
 DRAWN: C.E.H.
 PROJ. No.: 465-005
 825 W. 8th Ave., Anchorage,
 AK 99501, (907) 258-4880



SITE LOCATION MAP

ENVIRONMENTAL ASSESSMENT
 KOTZEBUE LOT M HANGAR
 Kotzebue, Alaska

FIGURE

1

PATH: V:\Project Drawings\Kotzebue FILE: 465-005-KOT-F2.DWG PLOTTED: 11/8/07.



0 100 200
APPROX. SCALE IN FEET

SOURCE: AERIAL PHOTO KOTZEBUE-7-19-03-CF196.JPG
DATED 10/12/07 PROVIDED BY AERO-METRIC ANCHORAGE.

DATE: NOV. 2007
CHKD: D.J.F.
DRAWN: C.E.H.
PROJ. No.: 465-005
825 W. 8th Ave, Anchorage,
AK 99501, (907) 258-4880



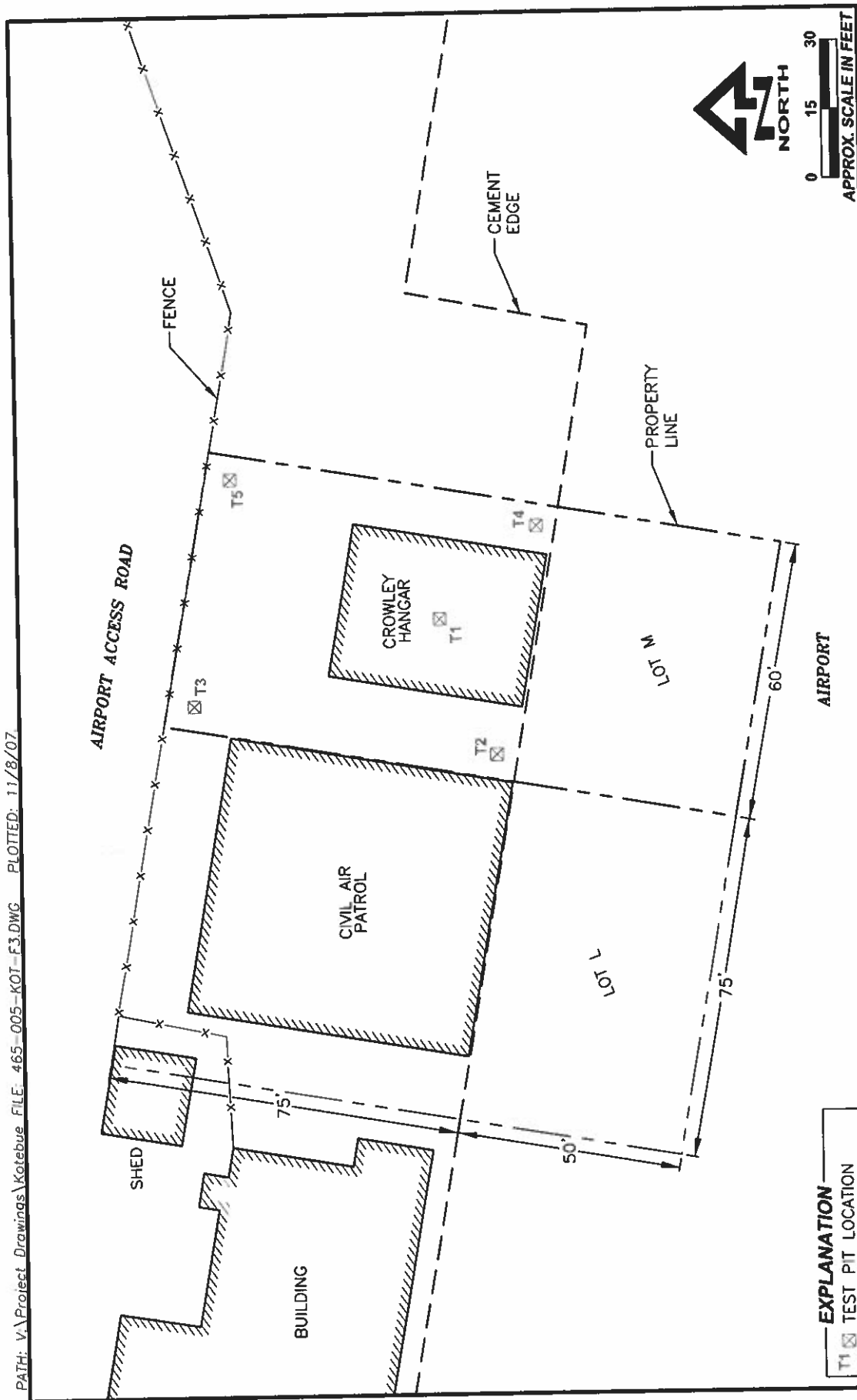
SITE PLAN

ENVIRONMENTAL ASSESSMENT
KOTZEBUE LOT M HANGAR
Kotzebue, Alaska


FIGURE

2

PATH: V:\Project Drawings\Kotzebue FILE: 465-005-KOT-F3.DWG PLOTTED: 11/8/07



EXPLANATION
 T1 X TEST PIT LOCATION

	DATE: NOV. 2007
	CHKD: D.J.F.
	DRAWN: C.E.H.
	PROJ. No.: 465-005
	825 W. 8th Ave., Anchorage, AK 99501, (907) 258-4880

TEST PIT LOCATIONS

ENVIRONMENTAL ASSESSMENT
 KOTZEBUE LOT M HANGAR
 Kotzebue, Alaska

FIGURE
3

Table 1
SOIL SAMPLE RESULTS SUMMARY
2007 CROWLEY ENVIRONMENTAL ASSESSMENT, Lot M Hangar
KOTZEBUE, ALASKA

Location:	Soil Screening Values	Test Pit 1	Test Pit 1	Test Pit 1	Test Pit 1	Test Pit 2	Test Pit 3	Test Pit 4	Test Pit 5
		07CLM-T1-01	07CLM-T1-02	07CLM-T1-03	07CLM-T1-04	07CLM-T2-02	07CLM-T3-02	07CLM-T4-01	07CLM-T5-02
Sample Number:		1,140	205	82	dup of T1-03	79	95	1.7	9.9
PID (ppm):		Top	Middle	Bottom	Bottom	Middle	Middle	Top	Middle
Depth:									
ADEC Fuels (mg/kg)									
Gasoline Range Organics	100 ⁽¹⁾	724 JS	128	126	93	75.3	32	ND (2.86)	ND (2.51)
Diesel Range Organics	500 ⁽¹⁾	904	231	147	158	1,550	481	18.2	129
Residual range Organics	2,000 ⁽¹⁾	61.6	153	144	178	122	110	144	154
VOCs (mg/kg)									
Benzene	13 ⁽²⁾	ND (0.500) JS	ND (0.0166)	0.0205	ND (0.0166)	ND (0.0140)	ND (0.0135)	ND (0.0143)	ND (0.0125)
Toluene	180 ⁽²⁾	ND (1) JS	0.0905	0.152	0.0857	ND (0.0286)	ND (0.0271)	ND (0.0286)	ND (0.0251)
Ethylbenzene	89 ⁽²⁾	ND (1) JS	0.256	0.179	0.178	ND (0.0286)	ND (0.0271)	ND (0.0286)	ND (0.0251)
Xylene (Total)	81 ⁽²⁾	5.66 JS	0.55	0.592	0.489	0.515	0.182	ND (0.0428)	ND (0.0376)

⁽¹⁾ ADEC Method 1 Soil Cleanup Levels; Table A2; Low BTEX.
⁽²⁾ ADEC Method 2 Soil Cleanup Levels; Table B7; Arctic Zone.

Note: detected results are **bolded**. Results above ADEC cleanup values are underlined.

not Arctic zone

Key:

- ADEC = Alaska Department of Environmental Conservation
- mg/kg = Milligrams per kilogram.
- ND = Analyte not detected above the method reporting limit.
- PAHs = Polycyclic aromatic hydrocarbons
- USEPA = United States Environmental Protection Agency
- VOCs = Volatile Organic Compounds

ND = Not detected at the MDL
 J Estimated Value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection limit (MDL). The user of this data should be aware that this data is of limited reliability.

B Analyte was detected in the associated method blank below the PQL at a concentration less than 10 times the sample result.
 JS Estimated value due to surrogate recoveries outside of method acceptance limits.

ATTACHMENT C

Photographic Log

Crowley Lot M Hangar

Job 465-005

Kotzebue, Alaska



Photo: 2 Time: 0959 Date: 10/12/2007 Direction: West
Subject: Crowley Hangar.

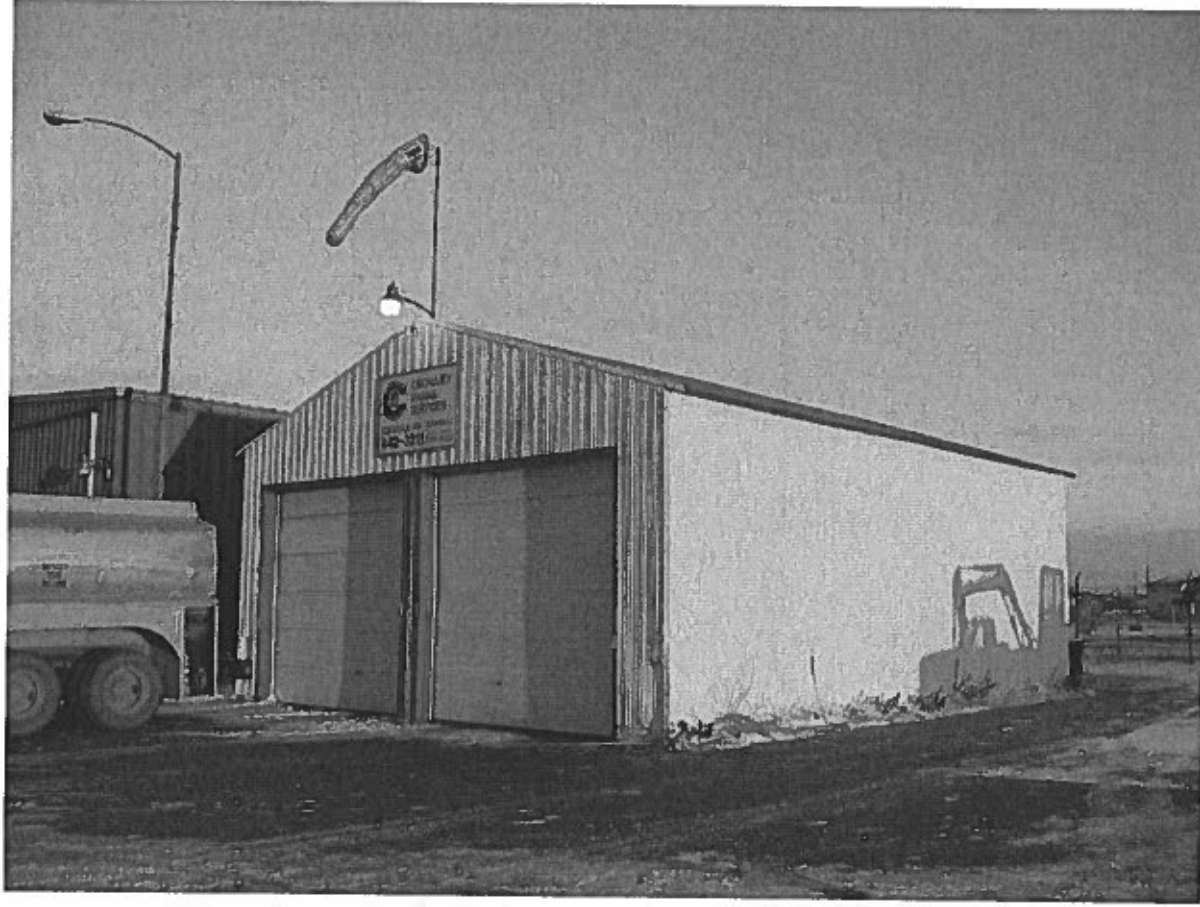


Photo: 1 Time: 0959 Date: 10/12/2007 Direction: Northwest
Subject: Crowley Hangar

Kotzebue, Alaska

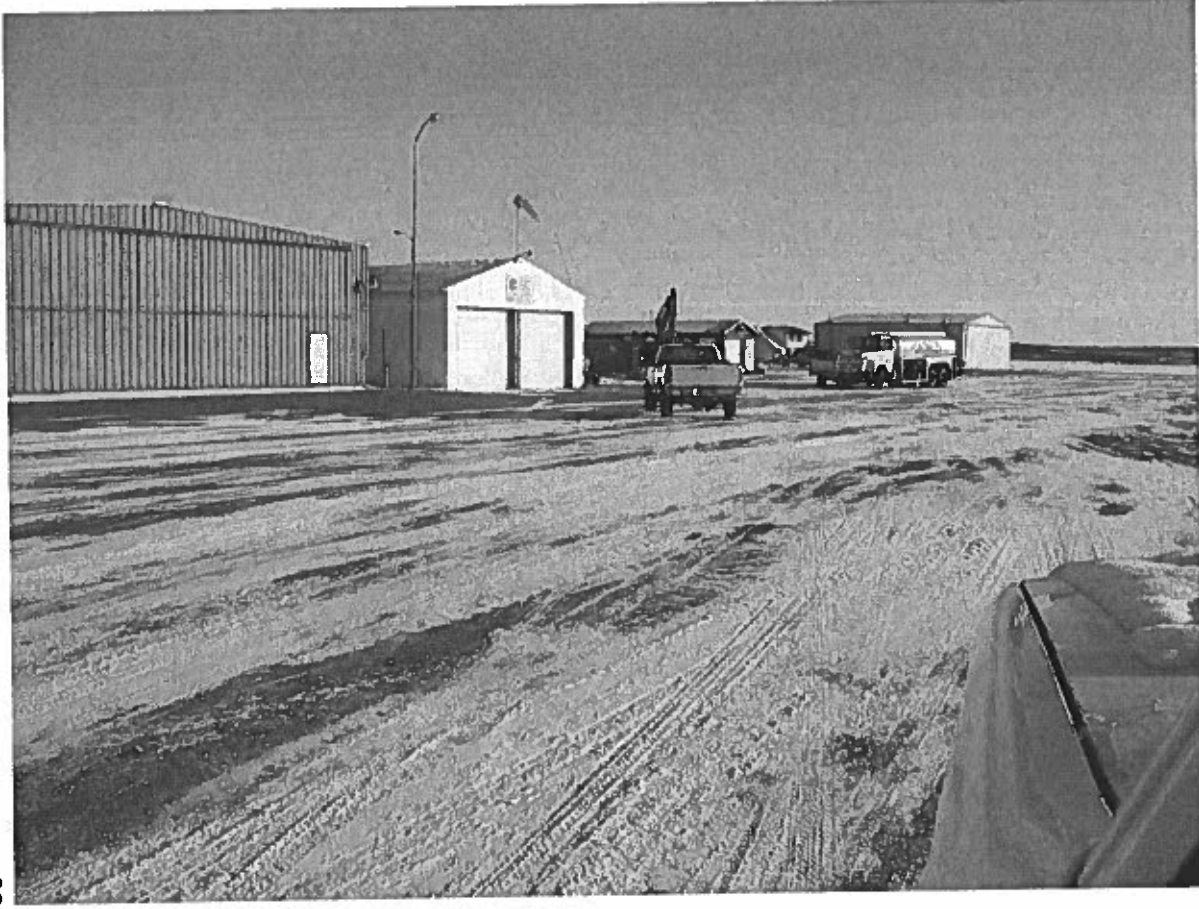
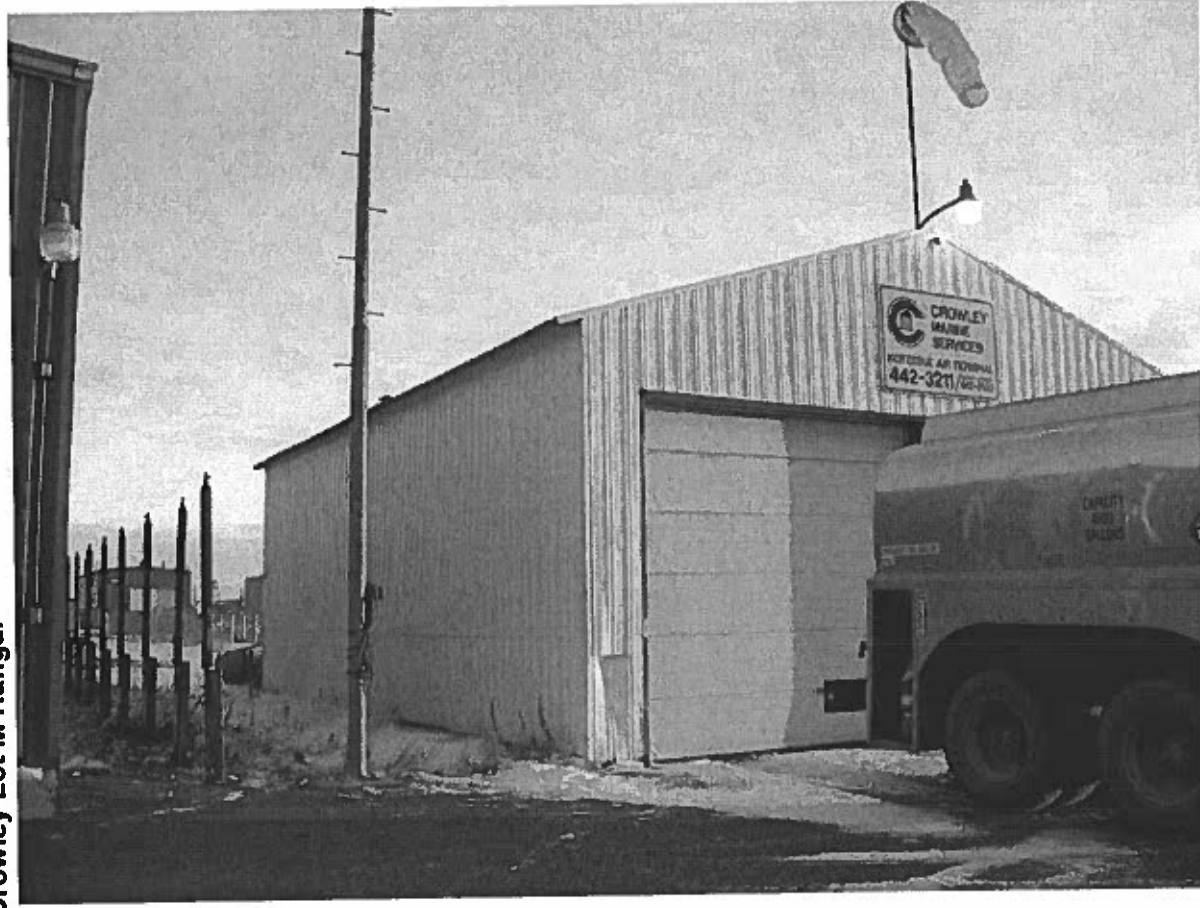


Photo: 3 Time: 1308 Date: 10/12/2007 Direction: Northeast
Subject: Crowley Hangar and adjacent Civil Air Patrol Hangar

Job 465-005



Crowley Lot M Hangar

Photo: 4 Time: 1004 Date: 10/12/2007 Direction: North
Subject: Crowley Hangar.

Crowley Lot M Hangar

Job 465-005

Kotzebue, Alaska



Photo: 6 Time: 0958 Date: 10/12/2007 Direction: Southeast
Subject: Crowley Hangar, view of two ASTs.

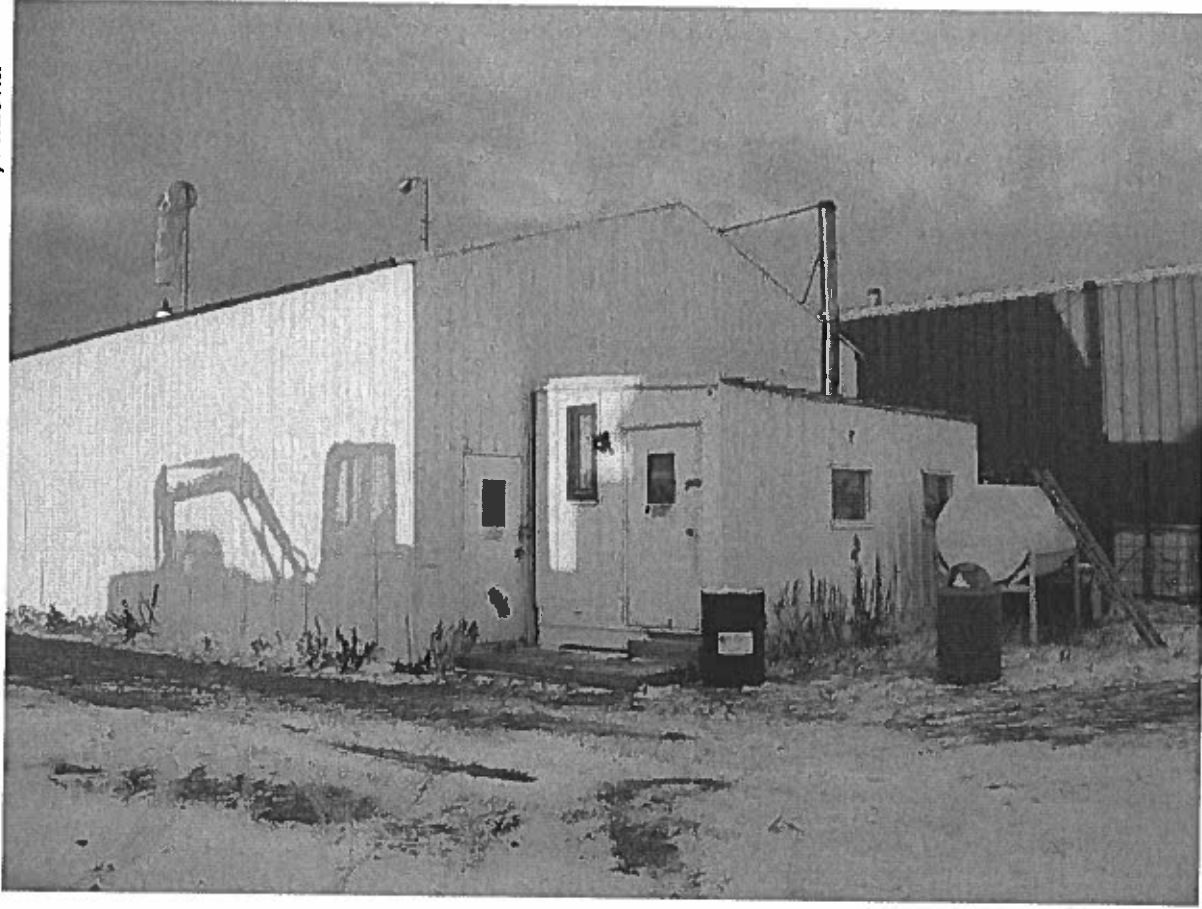
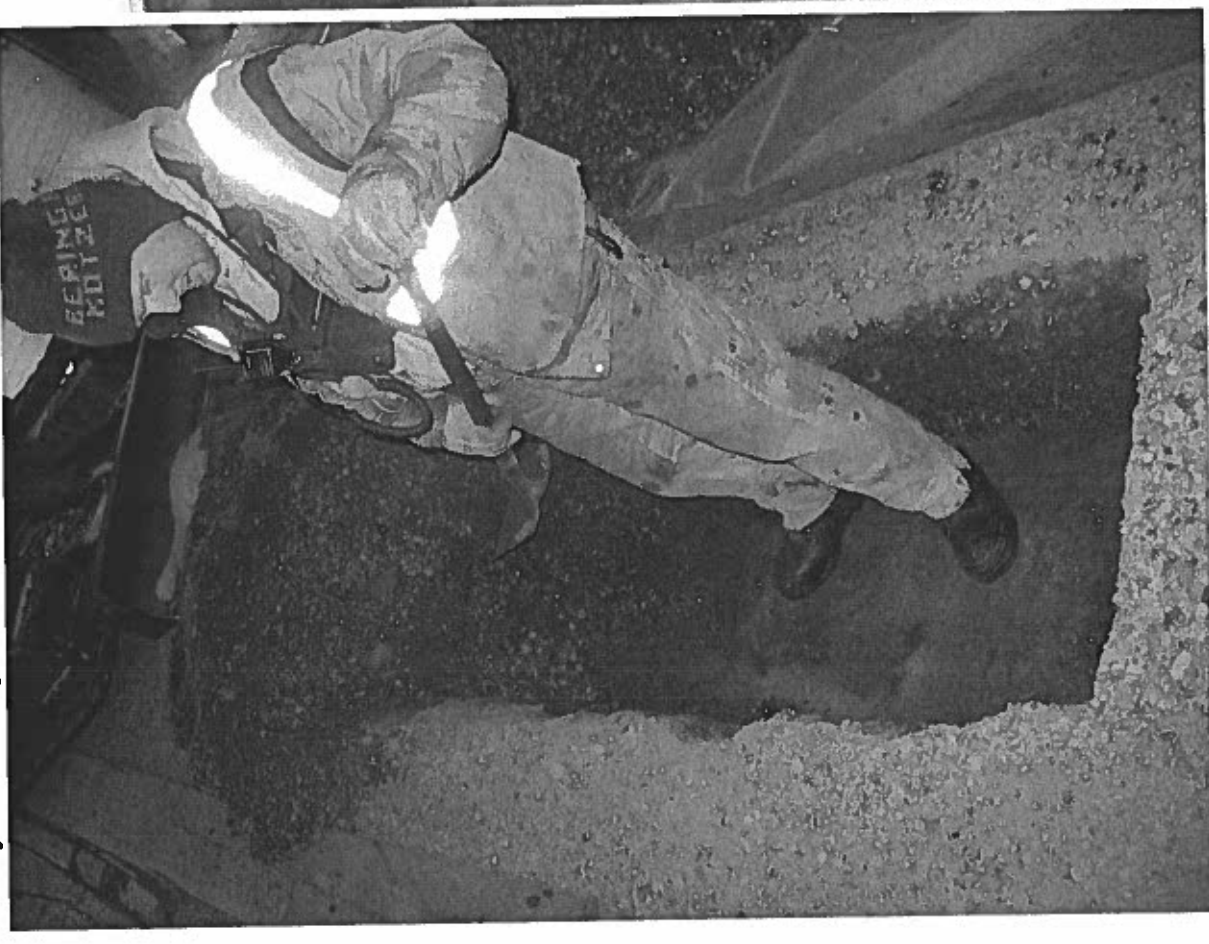


Photo: 5 Time: 0958 Date: 10/12/2007 Direction: Southwest
Subject: Crowley Hangar and AST.

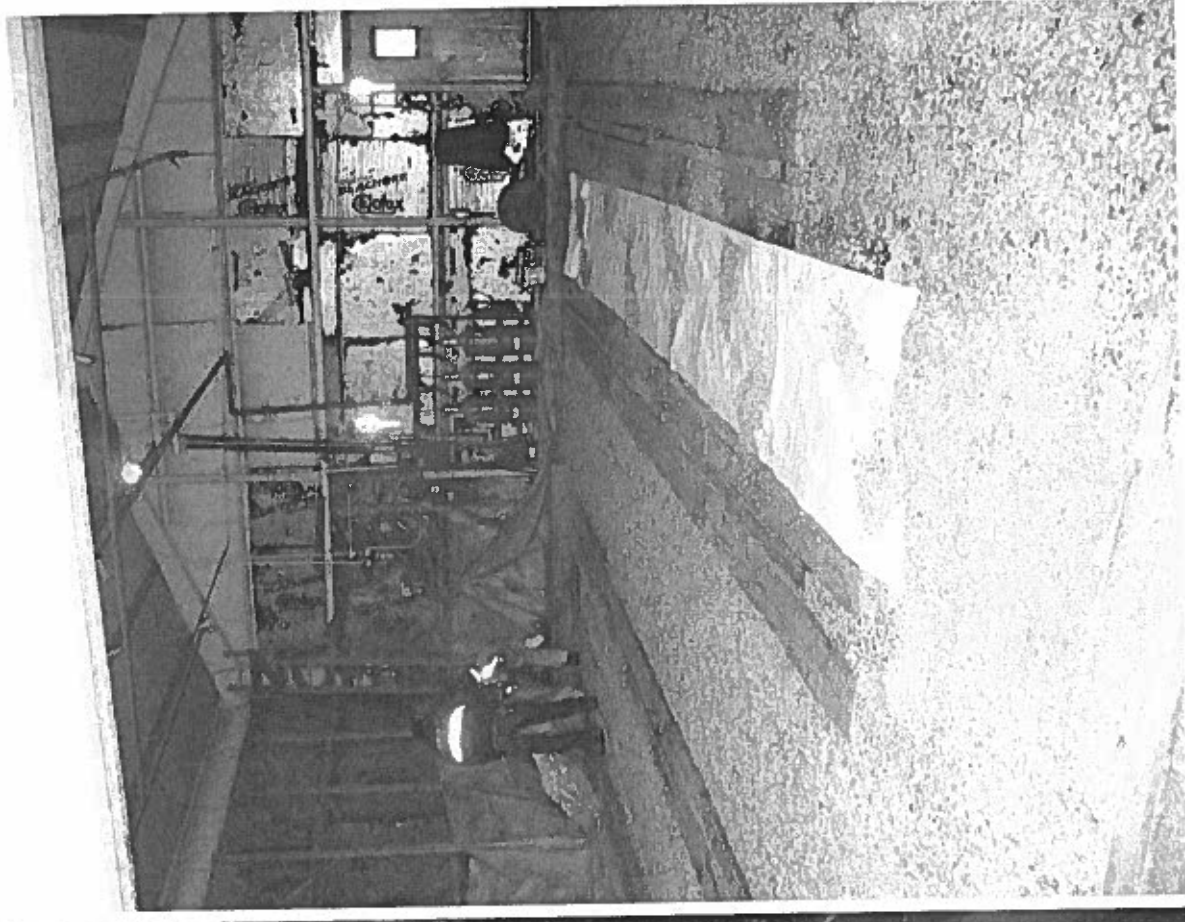
Kotzebue, Alaska

Job 465-005

Crowley Lot M Hangar



**Photo: 8 Time: 1034 Date: 10/12/2007 Direction: --
Subject: Uncovering liner material below Hangar floor.**



**Photo: 7 Time: 1022 Date: 10/12/2007 Direction: North
Subject: Interior of Crowley Hanger prior to test pitting.**

Crowley Lot M Hangar

Job 465-005

Kotzebue, Alaska



Photo: 10 Time: 1052 Date: 10/122007 Direction: South Subject: Excavating Test Pit 1 (T1).



Photo: 9 Time: 1052 Date: 10/12/2007 Direction: South Subject: Excavating Test Pit 1 (T1).

Crowley Lot M Hangar

Job 465-005

Kotzebue, Alaska



**Photo: 12 Time: 1338 Date: 10/12/2007 Direction: East
Subject: Excavating at Test Pit 3 (T3).**



**Photo: 11 Time: 1316 Date: 10/12/2007 Direction: South
Subject: Excavating at Test Pit 2 (T2).**

Crowley Lot M Hangar

Job 465-005

Kotzebue, Alaska

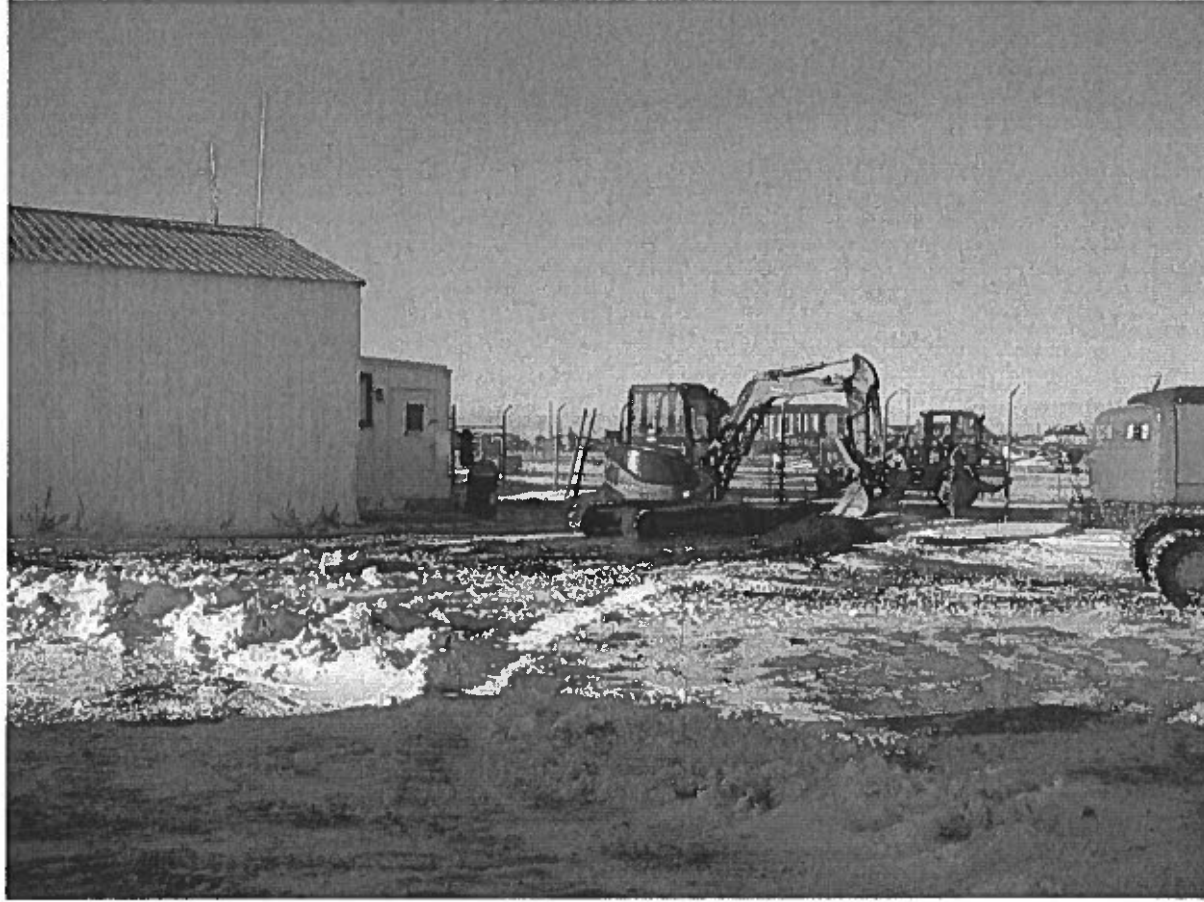


Photo: 14 Time: 1545 Date: 10/12/2007 Direction: Northwest
Subject: Backfilling at Test Pit 5 (T5).



Photo: 13 Time: 1437 Date: 10/12/2007 Direction: Southwest
Subject: Excavating at Test Pit 4 (T4).

Crowley Lot M Hangar

Job 465-005

Kotzebue, Alaska



Photo: 16 Time: 1750 Date: 7/19/2007 Direction: South
Subject: Drumming soils and patching liner floor at Test Pit 1.



Photo: 15 Time: 1745 Date: 7/19/2007 Direction: North
Subject: Patching liner in floor of Hangar at Test Pit 1.

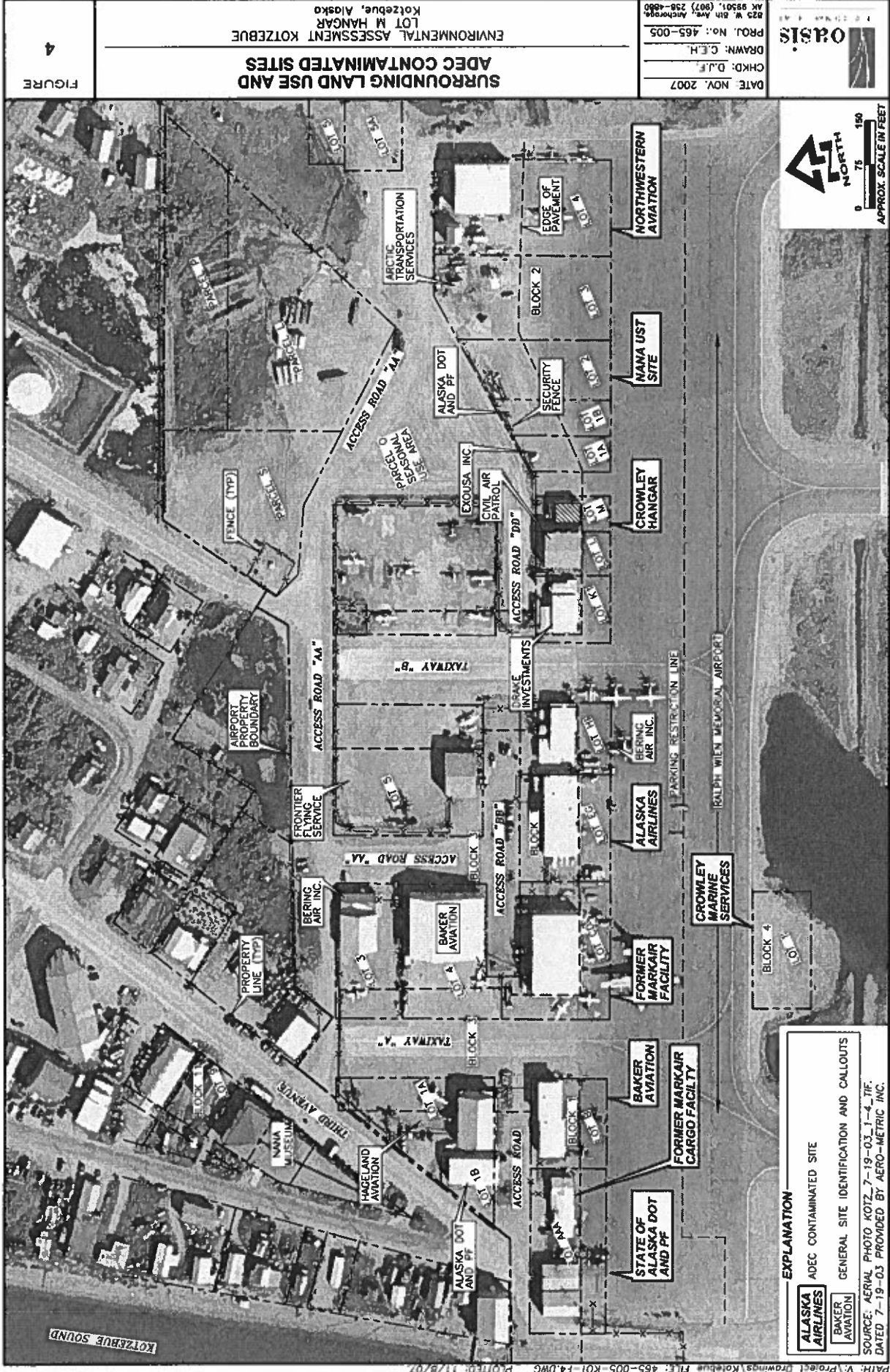


FIGURE 4

SURROUNDING LAND USE AND ADEC CONTAMINATED SITES

ENVIRONMENTAL ASSESSMENT KOTZEBUE
 LOT M HANGAR
 KOTZEBUE, ALASKA

DATE: NOV. 2007
 CHKD: D.J.F.
 DRAWN: C.E.H.
 PROJ. NO.: 465-005
 823 W. 8th Ave., Anchorage, AK 99501, (907) 293-4850

ORIS

APPROX. SCALE IN FEET
 0 75 150
 NORTH

EXPLANATION

ALASKA AIRLINES
 ADEC CONTAMINATED SITE
 BAKER AVIATION
 GENERAL SITE IDENTIFICATION AND CALLOUTS
 SOURCE: AERIAL PHOTO KOTZ. 7-19-03.1-4.TIF.
 DATED 7-19-03 PROVIDED BY AERO-METRIC, INC.

ATTACHMENT B

Tables

ATTACHMENT D

Analytical Data

Does not match site

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Environmental Scientist

Date: November 05, 2007

CS Report Name: Crowley Maritime Aniak Airport

Report Date:

Consultant Firm: OASIS Environmental Inc.

Laboratory Name: TestAmerica, Anchorage, AK

Laboratory Report Number: AQJ0082

ADEC File Number:

ADEC RecKey Number:

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:

Not Aplicable

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:

Samples were received in good condition.

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

Yes No

Comments:

No discrepancies

e. Data quality or usability affected? Explain.

Comments:

Not Applicable

4. Case Narrative

a. Present and understandable?

Yes No

Comments:

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

Yes No

Comments:

No discrepancies

c. Were all corrective actions documented?

Yes No

Comments:

Not Applicable

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

Comments:

All sample results are usable without qualification.

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:

All data is usable for project purposes.

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:

Not Applicable

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

Yes No

Comments:

Not Applicable

v. Data quality or usability affected? Explain.

Comments:

Not Applicable

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:

Not Applicable.

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:

Not Applicable

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

Yes No

Comments:

Not Applicable

vii. Data quality or usability affected? Explain.

Comments:

Not Applicable

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:

Sample 07CLM-T1-01 had surrogate recoveries exceeding method limits (biased high).

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

Yes No

Comments:

Effected sample results are flagged JS for estimates due to surrogate recoveries outside of method acceptance limits.

iv. Data quality or usability affected? Explain.

Comments:

Effected sample data is usable as an estimate.

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:

Not Applicable

iv. Data quality or usability affected? Explain.

Comments:

Not Applicable

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:

Not Applicable

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

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

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No Comments:

Not Applicable

iv. Data quality or usability affected? Explain.

Comments:

Not Applicable

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:

Not Applicable

iii. Data quality or usability affected? Explain.

Comments:

Not Applicable

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

a. Defined and appropriate?

Yes No Comments:

Not Applicable

October 25, 2007

Dan Frank
Oasis Environmental, Inc.
825 W 8th Ave, ste 200
Anchorage, AK/USA 99501-4427

RE: 465-500 Crowley Hangar

Enclosed are the results of analyses for samples received by the laboratory on 10/15/07 08:25.
The following list is a summary of the Work Orders contained in this report, generated on 10/25/07
17:08.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
AQJ0082	465-500 Crowley Hangar	465-005

TestAmerica - Anchorage, AK



Troy J. Engstrom, Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oasis Environmental, Inc. 825 W 8th Ave, ste 200 Anchorage, AK/USA 99501-4427	Project Name:	465-500 Crowley Hangar	Report Created:
	Project Number:	465-005	10/25/07 17:08
	Project Manager:	Dan Frank	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
07-CLM-T1-01	AQJ0082-01	Soil	10/12/07 10:40	10/15/07 08:25
07-CLM-T1-02	AQJ0082-02	Soil	10/12/07 10:44	10/15/07 08:25
07-CLM-T1-03	AQJ0082-03	Soil	10/12/07 10:50	10/15/07 08:25
07-CLM-T1-04	AQJ0082-04	Soil	10/12/07 11:20	10/15/07 08:25
07-CLM-T2-02	AQJ0082-05	Soil	10/12/07 13:25	10/15/07 08:25
07-CLM-T3-02	AQJ0082-06	Soil	10/12/07 13:52	10/15/07 08:25
07-CLM-T4-01	AQJ0082-07	Soil	10/12/07 14:43	10/15/07 08:25
07-CLM-T5-02	AQJ0082-08	Soil	10/12/07 15:27	10/15/07 08:25
Trip Blank	AQJ0082-09	Soil	10/12/07 00:00	10/15/07 08:25

TestAmerica - Anchorage, AK



Troy J. Engstrom, Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oasis Environmental, Inc. 825 W 8th Ave, ste 200 Anchorage, AK/USA 99501-4427	Project Name: 465-500 Crowley Hangar Project Number: 465-005 Project Manager: Dan Frank	Report Created: 10/25/07 17:08
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Gasoline Range Organics (C6-C10) and BTEX per AK101
 TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

AQJ0082-01 (07-CLM-T1-01)	Soil		Sampled: 10/12/07 10:40								RL7
Gasoline Range Organics	AK101 GRO/BTEX	724	----	100	mg/kg dry	30x	7100109	10/19/07 10:21	10/22/07 16:41		
Benzene	"	ND	----	0.500	"	"	"	"	"		
Toluene	"	ND	----	1.00	"	"	"	"	"	R10	
Ethylbenzene	"	ND	----	1.00	"	"	"	"	"	R10	
Xylenes (total)	"	5.66	----	1.50	"	"	"	"	"	R10	
Surrogate(s):	a,a,a-TFT (FID)		43.1%		50 - 150 %	"	"	"	"	Z3	
	a,a,a-TFT (PID)		25.6%		50 - 150 %	"	"	"	"	Z3	

higher than truck cleanup

AQJ0082-02 (07-CLM-T1-02)	Soil		Sampled: 10/12/07 10:44							
Gasoline Range Organics	AK101 GRO/BTEX	128	----	3.33	mg/kg dry	1x	7100109	10/19/07 10:21	10/22/07 06:22	
Benzene	"	ND	----	0.0166	"	"	"	"	"	
Toluene	"	0.0905	----	0.0333	"	"	"	"	"	R10
Ethylbenzene	"	0.256	----	0.0333	"	"	"	"	"	R10
Xylenes (total)	"	0.550	----	0.0500	"	"	"	"	"	R10
Surrogate(s):	a,a,a-TFT (FID)		137%		50 - 150 %	"	"	"	"	
	a,a,a-TFT (PID)		105%		50 - 150 %	"	"	"	"	

AQJ0082-03 (07-CLM-T1-03)	Soil		Sampled: 10/12/07 10:50							
Gasoline Range Organics	AK101 GRO/BTEX	126	----	3.92	mg/kg dry	1x	7100109	10/19/07 10:21	10/22/07 06:55	
Benzene	"	0.0205	----	0.0196	"	"	"	"	"	
Toluene	"	0.152	----	0.0392	"	"	"	"	"	R10
Ethylbenzene	"	0.179	----	0.0392	"	"	"	"	"	R10
Xylenes (total)	"	0.592	----	0.0587	"	"	"	"	"	R10
Surrogate(s):	a,a,a-TFT (FID)		127%		50 - 150 %	"	"	"	"	
	a,a,a-TFT (PID)		98.3%		50 - 150 %	"	"	"	"	

AQJ0082-04 (07-CLM-T1-04)	Soil		Sampled: 10/12/07 11:20							
Gasoline Range Organics	AK101 GRO/BTEX	93.0	----	3.33	mg/kg dry	1x	7100109	10/19/07 10:21	10/22/07 07:28	
Benzene	"	ND	----	0.0166	"	"	"	"	"	
Toluene	"	0.0857	----	0.0333	"	"	"	"	"	R10
Ethylbenzene	"	0.178	----	0.0333	"	"	"	"	"	R10
Xylenes (total)	"	0.489	----	0.0500	"	"	"	"	"	R10
Surrogate(s):	a,a,a-TFT (FID)		118%		50 - 150 %	"	"	"	"	
	a,a,a-TFT (PID)		93.5%		50 - 150 %	"	"	"	"	

TestAmerica - Anchorage, AK

Troy J Engstrom

Troy J. Engstrom, Manager

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Oasis Environmental, Inc. 825 W 8th Ave, ste 200 Anchorage, AK/USA 99501-4427	Project Name: 465-500 Crowley Hangar Project Number: 465-005 Project Manager: Dan Frank	Report Created: 10/25/07 17:08
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Gasoline Range Organics (C6-C10) and BTEX per AK101
 TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQJ0082-05 (07-CLM-T2-02)		Soil		Sampled: 10/12/07 13:25						
Gasoline Range Organics	AK101 GRO/BTEX	75.3	---	2.80	mg/kg dry	1x	7100109	10/19/07 10:21	10/22/07 08:00	
Benzene	"	ND	---	0.0140	"	"	"	"	"	
Toluene	"	ND	---	0.0280	"	"	"	"	"	R10
Ethylbenzene	"	ND	---	0.0280	"	"	"	"	"	R10
Xylenes (total)	"	0.515	---	0.0420	"	"	"	"	"	R10
<i>Surrogate(s): a,a,a-TFT (FID)</i>			87.8%		50 - 150 %	"				
<i>a,a,a-TFT (PID)</i>			72.9%		50 - 150 %	"				
AQJ0082-06 (07-CLM-T3-02)		Soil		Sampled: 10/12/07 13:52						
Gasoline Range Organics	AK101 GRO/BTEX	32.0	---	2.71	mg/kg dry	1x	7100109	10/19/07 10:21	10/22/07 08:33	
Benzene	"	ND	---	0.0135	"	"	"	"	"	
Toluene	"	ND	---	0.0271	"	"	"	"	"	R10
Ethylbenzene	"	ND	---	0.0271	"	"	"	"	"	R10
Xylenes (total)	"	0.182	---	0.0406	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>			85.0%		50 - 150 %	"				
<i>a,a,a-TFT (PID)</i>			75.8%		50 - 150 %	"				
AQJ0082-07 (07-CLM-T4-01)		Soil		Sampled: 10/12/07 14:43						
Gasoline Range Organics	AK101 GRO/BTEX	ND	---	2.86	mg/kg dry	1x	7100109	10/19/07 10:21	10/22/07 14:25	
Benzene	"	ND	---	0.0143	"	"	"	"	"	
Toluene	"	ND	---	0.0286	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.0286	"	"	"	"	"	
Xylenes (total)	"	ND	---	0.0428	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>			106%		50 - 150 %	"				
<i>a,a,a-TFT (PID)</i>			104%		50 - 150 %	"				
AQJ0082-08 (07-CLM-T5-02)		Soil		Sampled: 10/12/07 15:27						
Gasoline Range Organics	AK101 GRO/BTEX	ND	---	2.31	mg/kg dry	1x	7100109	10/19/07 10:21	10/22/07 09:39	
Benzene	"	ND	---	0.0125	"	"	"	"	"	
Toluene	"	ND	---	0.0251	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.0251	"	"	"	"	"	
Xylenes (total)	"	ND	---	0.0376	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>			83.9%		50 - 150 %	"				
<i>a,a,a-TFT (PID)</i>			73.9%		50 - 150 %	"				

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Oasis Environmental, Inc. 825 W 8th Ave, ste 200 Anchorage, AK/USA 99501-4427	Project Name: 465-500 Crowley Hangar Project Number: 465-005 Project Manager: Dan Frank	Report Created: 10/25/07 17:08
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Gasoline Range Organics (C6-C10) and BTEX per AK101
 TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQJ0082-09 (Trip Blank)		Soil					Sampled: 10/12/07 00:00			
Gasoline Range Organics	AK101 GRO/BTEX	ND	---	3.33	mg/kg wet	1x	7100123	10/23/07 14:21	10/24/07 08:04	
Benzene	"	ND	---	0.0166	"	"	"	"	"	"
Toluene	"	ND	---	0.0333	"	"	"	"	"	"
Ethylbenzene	"	ND	---	0.0333	"	"	"	"	"	"
Xylenes (total)	"	ND	---	0.0500	"	"	"	"	"	"
Surrogate(s):	<i>a,a,a-TFT (FID)</i>		102%		50 - 150 %	"				"
	<i>a,a,a-TFT (PID)</i>		99.9%		50 - 150 %	"				"

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Oasis Environmental, Inc. 825 W 8th Ave, ste 200 Anchorage, AK/USA 99501-4427	Project Name: 465-500 Crowley Hangar Project Number: 465-005 Project Manager: Dan Frank	Report Created: 10/25/07 17:08
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Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO
 TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQJ0082-07 (07-CLM-T4-01)		Soil			Sampled: 10/12/07 14:43					
Diesel Range Organics	AK102/103	18.2	----	15.5	mg/kg dry	1x	7100105	10/18/07 16:03	10/21/07 17:02	
Residual Range Organics	"	144	----	38.8	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		89.7%		50 - 150 %	"				
	Triacontane		102%		50 - 150 %	"				
AQJ0082-08 (07-CLM-T5-02)		Soil			Sampled: 10/12/07 15:27					
Diesel Range Organics	AK102/103	129	----	20.0	mg/kg dry	1x	7100105	10/18/07 16:03	10/21/07 17:35	
Residual Range Organics	"	154	----	50.0	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		103%		50 - 150 %	"				
	Triacontane		94.6%		50 - 150 %	"				

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Oasis Environmental, Inc. 825 W 8th Ave, ste 200 Anchorage, AK/USA 99501-4427	Project Name: 465-500 Crowley Hangar Project Number: 465-005 Project Manager: Dan Frank	Report Created: 10/25/07 17:08
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Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQJ0082-01 (07-CLM-T1-01)		Soil		Sampled: 10/12/07 10:40						
Dry Weight	TA-SOP	96.6	---	1.00	%	1x	7100107	10/18/07 17:12	10/19/07 13:29	
AQJ0082-02 (07-CLM-T1-02)		Soil		Sampled: 10/12/07 10:44						
Dry Weight	TA-SOP	88.6	---	1.00	%	1x	7100107	10/18/07 17:12	10/19/07 13:29	
AQJ0082-03 (07-CLM-T1-03)		Soil		Sampled: 10/12/07 10:50						
Dry Weight	TA-SOP	90.2	---	1.00	%	1x	7100107	10/18/07 17:12	10/19/07 13:29	
AQJ0082-04 (07-CLM-T1-04)		Soil		Sampled: 10/12/07 11:20						
Dry Weight	TA-SOP	89.1	---	1.00	%	1x	7100107	10/18/07 17:12	10/19/07 13:29	
AQJ0082-05 (07-CLM-T2-02)		Soil		Sampled: 10/12/07 13:25						
Dry Weight	TA-SOP	90.6	---	1.00	%	1x	7100107	10/18/07 17:12	10/19/07 13:29	
AQJ0082-06 (07-CLM-T3-02)		Soil		Sampled: 10/12/07 13:52						
Dry Weight	TA-SOP	93.0	---	1.00	%	1x	7100107	10/18/07 17:12	10/19/07 13:29	
AQJ0082-07 (07-CLM-T4-01)		Soil		Sampled: 10/12/07 14:43						
Dry Weight	TA-SOP	95.4	---	1.00	%	1x	7100107	10/18/07 17:12	10/19/07 13:29	
AQJ0082-08 (07-CLM-T5-02)		Soil		Sampled: 10/12/07 15:27						
Dry Weight	TA-SOP	92.5	---	1.00	%	1x	7100107	10/18/07 17:12	10/19/07 13:29	

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Oasis Environmental, Inc. 825 W 8th Ave, ste 200 Anchorage, AK/USA 99501-4427	Project Name: 465-500 Crowley Hangar Project Number: 465-005 Project Manager: Dan Frank	Report Created: 10/25/07 17:08
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Gasoline Range Organics (C6-C10) and BTEX per AK101 - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7100109	Soil Preparation Method: AK101 Field Prep
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (7100109-BLK1) Extracted: 10/19/07 10:21

Gasoline Range Organics	AK101 GRO/BTEX	ND	---	3.33	mg/kg wet	1x	--	--	--	--	--	--	10/21/07 18:13	
Benzene	"	ND	---	0.0166	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.0333	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.0333	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Surrogate(s): a,a,a-TFT (FID)		Recovery:	95.6%	Limits: 50-150%		"							10/21/07 18:13	
a,a,a-TFT (PID)			90.4%	50-150%		"							"	

LCS (7100109-BS1) Extracted: 10/19/07 10:21

Gasoline Range Organics	AK101 GRO/BTEX	22.3	---	3.33	mg/kg wet	1x	--	22.0	102%	(60-120)	--	--	10/21/07 17:06	
Benzene	"	0.273	---	0.0166	"	"	--	0.264	103%	(73.5-120)	--	--	"	
Toluene	"	1.85	---	0.0333	"	"	--	1.94	95.7%	(76.3-120)	--	--	"	
Ethylbenzene	"	0.360	---	0.0333	"	"	--	0.404	89.0%	(80-122)	--	--	"	
Xylenes (total)	"	2.09	---	0.0500	"	"	--	2.32	90.3%	(80-120)	--	--	"	
Surrogate(s): a,a,a-TFT (FID)		Recovery:	110%	Limits: 60-120%		"							10/21/07 17:06	
a,a,a-TFT (PID)			106%	60-120%		"							"	

LCS Dup (7100109-BSD1) Extracted: 10/19/07 10:21

Gasoline Range Organics	AK101 GRO/BTEX	23.0	---	3.33	mg/kg wet	1x	--	22.0	104%	(60-120)	2.86%	(20)	10/21/07 17:40	
Benzene	"	0.259	---	0.0166	"	"	--	0.264	98.1%	(73.5-120)	5.37%	(13)	"	
Toluene	"	1.91	---	0.0333	"	"	--	1.94	98.9%	(76.3-120)	3.29%	(12.3)	"	
Ethylbenzene	"	0.352	---	0.0333	"	"	--	0.404	87.1%	(80-122)	2.18%	(10.1)	"	
Xylenes (total)	"	2.15	---	0.0500	"	"	--	2.32	92.6%	(80-120)	2.51%	(11.6)	"	
Surrogate(s): a,a,a-TFT (FID)		Recovery:	109%	Limits: 60-120%		"							10/21/07 17:40	
a,a,a-TFT (PID)			106%	60-120%		"							"	

Duplicate (7100109-DUP1) QC Source: AQJ0080-03 Extracted: 10/19/07 10:21

Gasoline Range Organics	AK101 GRO/BTEX	6.80	---	3.33	mg/kg dry	1x	7.18	--	--	--	5.46%	(35.8)	10/22/07 01:25	
Surrogate(s): a,a,a-TFT (FID)		Recovery:	96.7%	Limits: 50-150%		"							10/22/07 01:25	

Matrix Spike (7100109-MS1) QC Source: AQJ0080-03 Extracted: 10/19/07 10:21

Benzene	AK101 GRO/BTEX	0.669	---	0.0166	mg/kg dry	1x	0.0104	0.696	94.6%	(80-125)	--	--	10/22/07 01:58	
Toluene	"	0.798	---	0.0333	"	"	0.0890	0.666	106%	(80-130)	--	--	"	
Ethylbenzene	"	0.814	---	0.0333	"	"	0.0174	0.669	119%	(80-138)	--	--	"	
Xylenes (total)	"	2.71	---	0.0500	"	"	0.424	2.01	113%	(80-141)	--	--	"	
Surrogate(s): a,a,a-TFT (PID)		Recovery:	89.4%	Limits: 50-150%		"							10/22/07 01:58	

TestAmerica - Anchorage, AK

Troy J Engstrom

Troy J. Engstrom, Manager

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Gasoline Range Organics (C6-C10) and BTEX per AK101 - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7100109	Soil Preparation Method: AK101 Field Prep
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (7100109-MSD1)														
							QC Source: AQJ0080-03			Extracted: 10/19/07 10:21				
Benzene	AK101 GRO/BTEX	0.653	---	0.0166	mg/kg dry	1x	0.0104	0.696	92.3%	(80-125)	2.41% (18.4)		10/22/07 02:31	
Toluene	"	0.784	---	0.0333	"	"	0.0890	0.666	104%	(80-130)	1.68% (18)		"	
Ethylbenzene	"	0.800	---	0.0333	"	"	0.0174	0.669	117%	(80-138)	1.73% (15.3)		"	
Xylenes (total)	"	2.68	---	0.0500	"	"	0.424	2.01	112%	(80-141)	0.790% (14.2)		"	
<i>Surrogate(s): a,a-a-TFT (PID)</i>		<i>Recovery:</i> 88.2%			<i>Limits: 50-150%</i>								10/22/07 02:31	

QC Batch: 7100123	Soil Preparation Method: AK101 Field Prep
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7100123-BLK1)														
							Extracted: 10/23/07 14:21							
Gasoline Range Organics	AK101 GRO/BTEX	ND	---	3.33	mg/kg wet	1x	--	--	--	--	--	--	10/24/07 07:30	
Benzene	"	ND	---	0.0166	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.0333	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.0333	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): a,a-a-TFT (FID)</i>		<i>Recovery:</i> 98.1%			<i>Limits: 50-150%</i>								10/24/07 07:30	
<i>a,a-a-TFT (PID)</i>		98.1%			<i>50-150%</i>								"	

LCS (7100123-BS1)	Extracted: 10/23/07 14:21													
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Gasoline Range Organics	AK101 GRO/BTEX	22.1	---	3.33	mg/kg wet	1x	--	22.0	100%	(60-120)	--	--	10/24/07 06:22	
Benzene	"	0.271	---	0.0166	"	"	--	0.264	102%	(73.5-120)	--	--	"	
Toluene	"	1.94	---	0.0333	"	"	--	1.94	100%	(76.3-120)	--	--	"	
Ethylbenzene	"	0.374	---	0.0333	"	"	--	0.404	92.7%	(80-122)	--	--	"	
Xylenes (total)	"	2.14	---	0.0500	"	"	--	2.32	92.4%	(80-120)	--	--	"	
<i>Surrogate(s): a,a-a-TFT (FID)</i>		<i>Recovery:</i> 105%			<i>Limits: 60-120%</i>								10/24/07 06:22	
<i>a,a-a-TFT (PID)</i>		110%			<i>60-120%</i>								"	

LCS Dup (7100123-BSD1)	Extracted: 10/23/07 14:21													
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Gasoline Range Organics	AK101 GRO/BTEX	22.6	---	3.33	mg/kg wet	1x	--	22.0	103%	(60-120)	2.55% (20)		10/24/07 06:56	
Benzene	"	0.270	---	0.0166	"	"	--	0.264	102%	(73.5-120)	0.308% (13)		"	
Toluene	"	1.93	---	0.0333	"	"	--	1.94	99.9%	(76.3-120)	0.562% (12.3)		"	
Ethylbenzene	"	0.366	---	0.0333	"	"	--	0.404	90.5%	(80-122)	2.39% (10.1)		"	
Xylenes (total)	"	2.20	---	0.0500	"	"	--	2.32	94.8%	(80-120)	2.61% (11.6)		"	
<i>Surrogate(s): a,a-a-TFT (FID)</i>		<i>Recovery:</i> 107%			<i>Limits: 60-120%</i>								10/24/07 06:56	
<i>a,a-a-TFT (PID)</i>		109%			<i>60-120%</i>								"	

TestAmerica - Anchorage, AK

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 Troy J. Engstrom, Manager



Oasis Environmental, Inc. 825 W 8th Ave, ste 200 Anchorage, AK/USA 99501-4427	Project Name: 465-500 Crowley Hangar Project Number: 465-005 Project Manager: Dan Frank	Report Created: 10/25/07 17:08
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Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7100105 Soil Preparation Method: EPA 3545

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7100105-BLK1) Extracted: 10/18/07 16:03

Diesel Range Organics	AK102/103	ND	---	20.0	mg/kg wet	1x	--	--	--	--	--	--	10/21/07 10:53	
Residual Range Organics	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i> Triacontane</i>		<i>90.9%</i>		<i>50-150%</i>								<i>10/21/07 10:53</i>		
		<i>91.4%</i>		<i>50-150%</i>								<i>"</i>		

LCS (7100105-BS1) Extracted: 10/18/07 16:03

Diesel Range Organics	AK102/103	129	---	20.0	mg/kg wet	1x	--	126	102%	(75-125)	--	--	10/21/07 11:27	
Residual Range Organics	"	131	---	50.0	"	"	--	128	103%	(60-120)	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i> Triacontane</i>		<i>98.7%</i>		<i>60-120%</i>								<i>10/21/07 11:27</i>		
		<i>91.8%</i>		<i>60-120%</i>								<i>"</i>		

LCS Dup (7100105-BSD1) Extracted: 10/18/07 16:03

Diesel Range Organics	AK102/103	132	---	20.0	mg/kg wet	1x	--	126	104%	(75-125)	1.77%	(20)	10/21/07 12:00	
Residual Range Organics	"	134	---	50.0	"	"	--	128	105%	(60-120)	2.13%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i> Triacontane</i>		<i>99.5%</i>		<i>60-120%</i>								<i>10/21/07 12:00</i>		
		<i>92.9%</i>		<i>60-120%</i>								<i>"</i>		

Duplicate (7100105-DUP1) QC Source: AQJ0065-01 Extracted: 10/18/07 16:03


Diesel Range Organics	AK102/103	ND	---	16.9	mg/kg wet	1x	ND	--	--	--	12.6%	(20)	10/21/07 10:53	
Residual Range Organics	"	ND	---	42.4	"	"	ND	--	--	--	57.4%	"	"	R4
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i> Triacontane</i>		<i>95.6%</i>		<i>50-150%</i>								<i>10/21/07 10:53</i>		
		<i>95.4%</i>		<i>50-150%</i>								<i>"</i>		

Matrix Spike (7100105-MS1) QC Source: AQJ0065-01 Extracted: 10/18/07 16:03

Diesel Range Organics	AK102/103	134	---	20.0	mg/kg wet	1x	5.68	119	108%	(75-125)	--	--	10/21/07 12:00	
Residual Range Organics	"	134	---	50.0	"	"	5.62	120	107%	(60-150)	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i> Triacontane</i>		<i>93.7%</i>		<i>50-150%</i>								<i>10/21/07 12:00</i>		
		<i>96.3%</i>		<i>50-150%</i>								<i>"</i>		

Matrix Spike Dup (7100105-MSD1) QC Source: AQJ0065-01 Extracted: 10/18/07 16:03

Diesel Range Organics	AK102/103	114	---	18.0	mg/kg wet	1x	5.68	113	95.8%	(75-125)	16.0%	(25)	10/21/07 12:34	
Residual Range Organics	"	115	---	44.9	"	"	5.62	115	95.9%	(60-150)	15.0%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i> Triacontane</i>		<i>83.1%</i>		<i>50-150%</i>								<i>10/21/07 12:34</i>		
		<i>84.8%</i>		<i>50-150%</i>								<i>"</i>		

TestAmerica - Anchorage, AK

 Troy J. Engstrom, Manager

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Oasis Environmental, Inc. 825 W 8th Ave, ste 200 Anchorage, AK/USA 99501-4427	Project Name: 465-500 Crowley Hangar Project Number: 465-005 Project Manager: Dan Frank	Report Created: 10/25/07 17:08
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
TestAmerica - Anchorage, AK

QC Batch: 7100107 Soil Preparation Method: *** DEFAULT PREP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (7100107-DUP1)							QC Source: AQJ0081-01		Extracted: 10/18/07 17:12					
Dry Weight	TA-SOP	93.6	---	1.00	%	1x	91.0	--	--	--	2.78% (25)		10/19/07 13:29	

TestAmerica - Anchorage, AK

Troy J. Engstrom

Troy J. Engstrom, Manager

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Oasis Environmental, Inc.
825 W 8th Ave, ste 200
Anchorage, AK/USA 99501-4427

Project Name: 465-500 Crowley Hangar
Project Number: 465-005
Project Manager: Dan Frank

Report Created:
10/25/07 17:08

Notes and Definitions

Report Specific Notes:

- R10 - The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the lower value was reported due to apparent chromatographic problems.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- RL7 - Sample required dilution due to high concentrations of target analyte.
- Z3 - The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Anchorage, AK



Troy J. Engstrom, Manager

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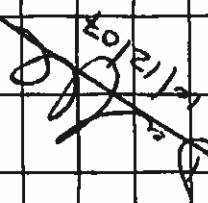
AG50082
TestAmerica
 ANALYTICAL TESTING CORPORATION

CHAIN OF CUSTODY

885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100

Company Name: UASIS Environmental Project: 465-005 Crowley Hangar
 Mailing Address: 825 W 8TH Billing Address (if different):
 City: Anchorage State: AK Zip Code: 99501
 Telephone: 258-4880 Fax #: P.O. #: 465-005
 Report To: Dan Frank E-Mail Address: d.frank@uasisev.com QC Data: Level II (standard) Level III Level IV
 Sampler: D. Frank Test America Work Order #

Date/Time Results Required: _____
 MANDATORY:
 SDWA (Drinking Water)
 CWA (Waste Water)
 RCRA (Hazardous Waste)
 Other
 Turnaround Time: 10-15 Working Days (Standard TAT)
 7 Working Days
 5 Working Days

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Test America's Sample #	ANALYSES REQUESTED (Please provide method)				Comments / Temp. (if required)
						210	213	214	215	
1.07-CLM-T1-01	10/12/07/1040		2	4802X2	-01	X	X	X	X	 10/12/07
2.07-CLM-T1-02	1044		2		-02	X	X	X		
3.07-CLM-T1-03	1050		2		-03	X	X	X		
4.07-CLM-T1-04	1120		2		-04	X	X	X		
5.07-CLM-T2-02	1325		2		-05	X	X	X		
6.07-CLM-T3-02	1352		2		-06	X	X	X		
7.07-CLM-T4-01	1443		2		-07	X	X	X		
8.07-CLM-T5-02	1527		2		-08	X	X	X		
9.										
10.										

Relinquished by/Co.: Dan Frank 10/15/07 0825 Received by/Co.: Shirley DeL... Date/Time/Temp: 10/15/07 0825
 Relinquished by/Co.: _____ Date/Time/Temp: _____
 Relinquished by/Co.: _____ Date/Time/Temp: _____

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: _____ Page _____ of _____
 Note: By relinquishing samples to Test America, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project.
 Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days.

White: Test America Yellow: Test America Pink: Client

Test America Cooler Receipt Form

WORK ORDER # AQJ0082 CLIENT: Oasis PROJECT: 465-005 Crawley Hanger
Date/Time Cooler Arrived 10/15/07 08:25 Cooler signed for by: David Sumnerville
(Print name)

Preliminary Examination Phase:

Date cooler opened: same as date received or / /

Cooler opened by (print) Johanna Dreher (sign) Johanna Dreher

1. Delivered by ALASKA AIRLINES Fed-Ex UPS NAC LYNDEN CLIENT Shawnd
Shipment Tracking # if applicable (include copy of shipping papers in file)

2. Number of Custody Seals 4 Signed by Date / /

Were custody seals unbroken and intact on arrival? N/A Yes No

3. Were custody papers sealed in a plastic bag? Yes No

4. Were custody papers filled out properly (ink, signed, etc.)? Yes No

5. Did you sign the custody papers in the appropriate place? Yes No

6. Was ice used? Yes No Type of ice: blue ice gel ice real ice dry ice Condition of Ice: 80% /

Temperature by Digi-Thermo Probe 3.6 °C Thermometer # rec# 3

Acceptance Criteria: 0 - 6°C

7. Packing in Cooler: bubble wrap styrofoam cardboard Other: paper

8. Did samples arrive in plastic bags? Yes No

9. Did all bottles arrive unbroken, and with labels in good condition? Yes No

10. Are all bottle labels complete (ID, date, time, etc.) Yes No

11. Do bottle labels and Chain of Custody agree? Yes No

12. Are the containers and preservatives correct for the tests indicated? Yes No

13. Is there adequate volume for the tests requested? Yes No

14. Were VOA vials free of bubbles? N/A Yes No

If "No" which containers contained "head space" or bubbles?

Log-in Phase:

Date of sample log-in 10/15/07

Samples logged in by (print) Johanna Dreher (sign) Johanna Dreher

1. Was project identifiable from custody papers? Yes No

2. Do Turn Around Times and Due Dates agree? Yes No

3. Was the Project Manager notified of status? Yes No

4. Was the Lab notified of status? Yes No

5. Was the COC scanned and copied? Yes No

