CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

To: Mr. Richard Brazell, Regional Spill Engineer
New York State Department of Environmental Conservation
615 Erie Boulevard West
Syracuse, New York 13204-2400

RE: ***Alaskan Oil, Incorporated***
Voluntary Cleanup Agreement (Index Number D7-0002-95-09)
2ND and 3RD Quarter 1997 Groundwater Monitoring Report
Route 13 and Cemetery Street, Altmar, New York
SPILL ID #9614774

Date: November 3, 1997

WE ARE SENDING YOU _X_ HEREWITH __ UNDER SEPARATE COVER

One copy of the above-referenced report at Route 13 and Cemetery Street, Altmar, New York.

If you should have any questions regarding the enclosed, do not hesitate to contact me at **(315)478-2374**.

IF THE ENCLOSED ARE NOT AS NOTED, PLEASE NOTIFY US AT ONCE.

Sincerely,
Certified Environmental Services

Eric E. Murdock
Environmental Services Manager

Enclosure

Transmittal

CES Certified Environmental Services, Inc.

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ALASKAN OIL, INC.
GROUNDWATER MONITORING SERVICES
2ND & 3RD QUARTERS 1997

ROUTE 13 & CEMETERY STREET
ALTMAR, NEW YORK

NYSDEC SPILL ID #9614774

CES Certified Environmental Services, Inc.

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ALASKAN OIL, INC.
ROUTE 13 & CEMETERY STREET
ALTMAR, NEW YORK

NYSDEC SPILL NO. 9614774

2ND & 3RD QUARTERS 1997

PREPARED FOR:

Alaskan Oil, Inc.
500 Solar Street
Syracuse, New York

&

New York State Department of
Environmental Conservation

PREPARED BY:

Certified Environmental Services, Inc.
1401 Erie Boulevard East
Syracuse, New York

October 28, 1997

CES Certified Environmental Services, Inc.

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APPENDICES

CES Certified Environmental Services, Inc.

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1.0 INTRODUCTION

On behalf of Alaskan Oil, Inc. (AOI), Certified Environmental Services, Inc. (CES) is pleased to submit this report, for groundwater monitoring services during the 2ND and 3RD quarters of 1997 at the Route 13 & Cemetery Street gasoline station in Altmar, New York. As a result of the conclusions and recommendations stated in the preliminary subsurface investigation report submitted by CES on May 30, 1997, three additional groundwater monitoring wells have been installed and incorporated into the groundwater monitoring program at the site. These additional wells, MW-5, MW-6 and MW-7, aid in the delineation of the downgradient edge of the plume. A scaled map of the site which illustrates the location of the groundwater monitoring wells is included as Figure 1 in Appendix A.

As in the past, rotary hollow stem augers were utilized to advance the soil borings for the installation of the monitoring wells MW-5, 6 and 7. Soil grab samples retrieved from the two inch diameter split spoon samplers were screened for volatile organic compounds (VOC's) utilizing a photoionization detector (PID) meter. Soils retrieved from two to fourteen feet below grade at monitoring well MW-5 exhibited PID readings ranging from 0.0 to 40 parts per million (ppm). Soils retrieved from monitoring wells MW-6 and MW-7 did not exhibit PID headspace readings above background concentrations.

Once installed the monitoring wells were developed, surveyed and sampled by CES personnel. Groundwater samples were collected June 4, 1997 from monitoring wells MW-1 through MW-4 and on July 25, 1997 from wells MW-1 through MW-7. Groundwater samples were submitted for laboratory analyses in accordance with USEPA Methods 8021 and 8100.

CES

1.0 INTRODUCTION (Cont'd)

Results from the USEPA Methods 8021 and 8100 laboratory analyses conducted on the groundwater samples collected during both sampling events from MW-2, MW-3, MW-4 indicates compliance with NYSDEC Water Quality Standards and Guidance Values. Results from the laboratory analyses conducted on the groundwater samples collected from MW-1 during both sampling events and MW-5 and MW-6 during the July event exceed detected numerous concentrations of contaminants exceeding NYSDEC Water Quality Standards and Guidance Values. Although results from laboratory analyses conducted on the groundwater sample collected from MW-7 indicates compliance with NYSDEC Water Quality Standards and Guidance Values.

A groundwater elevation contour and flow direction map was created utilizing the relative elevation and position survey information and groundwater elevation data collected on July 25, 1997. As expected, the contoured groundwater elevation data indicates that the groundwater beneath the AOI facility is flowing west to southwesterly across the site.

Drinking water samples were collected on June 4, 1997 and July 25, 1997 from the kitchen sink in the mini-mart building were submitted for analysis in accordance with USEPA Method 8021. Results of laboratory analysis indicates compliance with NYSDEC Water Quality Standards and Guidance Values. In the event that quarterly groundwater monitoring indicates petroleum compounds in the samples collected from MW-2 which is hydrologically cross-gradient to the direction of groundwater flow, CES will recommend installing an activated carbon water treatment system on the drinking water supply at the station.

CES recommends that monitoring wells MW-1 through MW-7 be sampled on a quarterly basis for analyses in accordance with USEPA Methods 8021 and 8100. In addition to developing analytical history files of groundwater quality data, additional monitoring will provide groundwater elevation data indicating fluctuations, if any, in groundwater flow patterns

1.0 INTRODUCTION (Cont'd)

across the site. Based on the results from laboratory analyses which indicate that two of the new wells reveal concentrations of numerous petroleum related compounds which exceed NYSDEC Water Quality Standards and Guidance Values, additional groundwater monitoring wells may be needed in the vicinity of MW-5 and MW-6 to delineate the downgradient edge of the plume.

2.0 SCOPE OF WORK

AOI provided the equipment, labor and materials to advance the soil borings and install groundwater monitoring wells MW-5, 6 and 7. Certified Environmental Services, Inc. (CES), an environmental laboratory and consulting firm, was retained by AOI to provide a geologist on-site during the drilling activities to visually classify the soil samples retrieved and screen soil for volatile organic compounds (VOC's) with a photoionization detector (PID) meter. Groundwater samples were collected and submitted to CES's NYSDOH approved laboratory (Environmental Laboratory Approval Program #11246) for analyses.

2.1 Soil Boring Advancement

Three (3) additional groundwater monitoring wells were installed to further identify and delineate soil and groundwater petroleum hydrocarbon contamination beneath the Alaskan Oil, Inc. (AOI) property located at Route 13 & Cemetery Street in Altmar, New York.

The three (3) soil borings were advanced to desired depth utilizing 4 1/4-inch inside diameter (I.D.) hollow stem augers. Soil samples were recovered continuously in accordance with ASTM Method 1586-D (Split-Barrel Sampling) using a 2-inch outside diameter (O.D.) split-barrel sampler.

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2.1 *Soil Boring Advancement (Cont'd)*

Soil encountered during the advancement of the soil borings was composed of predominantly brown fine sand and silt with varying percentages of other constituents such as course and medium sand. Bedrock was not encountered during the drilling activities. During the soil boring advancement, groundwater was encountered at approximately four to six feet below grade. Soil retrieved from the split spoon sampling tubes were screened for VOC's with a PID meter. The PID results are presented on the boring logs included as Appendix B. PID soil headspace readings were measured as high as 40ppm at eight to ten feet below grade during the advancement of soil boring MW-5. No PID soil readings greater than 0.2ppm were measured in the soil from borings for MW-6 and MW-7.

2.2 *Groundwater Monitoring Well Installation*

Upon reaching the desired depth at the designated soil boring locations, a groundwater monitoring well was installed into the boreholes. The groundwater monitoring wells were constructed of a ten (10) feet length of 0.010-inch slot size, Schedule 40 PVC screen and an appropriate length of 2-inch I.D. Schedule 40 riser. The annulus between the soil boring side and the monitoring well material was filled from the bottom of the soil boring to above the top of the well screen with #3Q washed silica sand filter pack. A bentonite seal was installed above the sand filter pack. A cement/bentonite grout was installed into the well annulus from the top of the bentonite seal to the ground surface. The monitoring well screen was positioned in the soil boring so as the groundwater table would consistently intersect the screened interval of the well. An attempt was made to screen the groundwater table with the monitoring well screen to aid in the identification of possible petroleum which may have been floating atop the groundwater. At the ground surface each monitoring well was finished at grade with a flushmount protective casing and a locking compression cap. The Groundwater Monitoring Well Construction Details and Soil Boring Logs are included in Appendix B.

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2.3 *Groundwater Monitoring Well Development and Survey*

Upon completion of the three (3) additional groundwater monitoring wells, each well was developed utilizing a bottom filling disposable bailer. The monitoring wells were developed to remove suspended fine material from the well and entrained fine material from the sand filter pack.

Following the installation of the groundwater monitoring wells, a relative horizontal position and elevation survey was conducted on the top of the well casings of the monitoring wells. The relative elevation and horizontal position of the top of each groundwater monitoring well was surveyed to the nearest one-one hundredth (0.01) of a foot in relation to a benchmark arbitrarily established on the AOI property. The monitoring well relative elevation and horizontal position survey was conducted to aid in the calculation of the groundwater flow direction and gradient.

A groundwater elevation contour and flow direction map was created utilizing the relative elevation and position survey information and groundwater elevation data collected on July 25, 1997. The contoured groundwater elevation data indicates that the groundwater beneath the AOI facility is flowing westerly to southwesterly across the site. The March 26, 1997 groundwater elevation data is included as Appendix C. A partial copy of a USGS Topographic Map is included as Figure 3 in Appendix A. The topographic map illustrates a small drainage creek is located to the west of the site and flows approximately three-quarters of a mile to the Salmon River.

2.4 *Groundwater Analytical Sampling*

On June 4, 1997 and July 25, 1997 a groundwater sample was recovered from each of the groundwater monitoring wells and submitted for laboratory analyses.

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2.4 *Groundwater Analytical Sampling (Cont'd)*

The following procedures were utilized to obtain groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7:

1. Prior to the initiation of evacuation activities, each well was visually inspected for signs of damage, tampering or any other unusual observations.

2. Water levels were measured to the nearest 1/100th of a foot using an electronic water level indicator. The measurement was noted on the sample characterization sheet to determine the volume of water in the well. The water level indicator probe and associated cable were cleaned between wells to prevent cross contamination.

3. Water in the well was checked for pH and temperature using portable field instrumentation.

4. After completing initial field measurements, each well was evacuated using dedicated PVC bailers in a manner which created the least turbidity. CES personnel evacuated approximately three (3) to five (5) well volumes or to dryness from each well. Purged volumes are identified on chain-of-custody information sheets.

5. The wells were allowed to adequately recharge prior to collecting samples. Field parameters were again checked using the portable field instrumentation. Field instrumentation was calibrated at the beginning of the day and periodically checked and recelebrated in accordance with the manufacturers specifications.

6. Samples were collected in the appropriate bottles along with the required preservatives for the analyses to be performed.

7. Trip blanks and replicate samples were collected and submitted to the laboratory along with the samples.

8. Sample Characterization/Chain-of-Custody forms were completed prior to samples leaving the site.

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2.4 Groundwater Analytical Sampling (Cont'd)

9. Samples were packed in shipping cartons and placed on ice to keep samples cool during transport to the laboratory. Upon arriving at the laboratory, the samples were signed for by CES' Log-In personnel to maintain the chain of custody. Each sample was assigned an identification number (Log Number) for tracking purposes.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Groundwater Laboratory Analytical Results

The recovered groundwater samples were submitted to CES for laboratory analyses for VOC contaminant concentrations following USEPA Method 8021 and SVOC contaminant concentrations following USEPA Method 8100. Results of laboratory analyses conducted on the groundwater samples collected from monitoring wells MW-2, MW-3, MW-4 and MW-7 did not indicate the presence of a detectable concentration of VOC or SVOC contaminants for the laboratory parameters and detection limits for which the analyses was conducted therefore indicating compliance with NYSDEC Water Quality Standards and Guidance Values.

Results from the USEPA Method 8021 analyses conducted on the groundwater samples collected from MW-1 detected concentrations of Benzene (16600 ppb and 18900 ppb), Ethylbenzene (4300 ppb and 3400 ppb), Toluene (36700 ppb and 34500 ppb), o-Xylene (7400 ppb and 6400 ppb), m/p-Xylene (14600 ppb and 12500 ppb), n-Propylbenzene (535 ppb and <250 ppb), 1,2,4-Trimethylbenzene (3900 ppb and 2600 ppb), 1,3,5-Trimethylbenzene (1450 ppb and 1100 ppb), n-Butylbenzene (490 ppb and <250 ppb) and Naphthalene (750 ppb and 540 ppb) for the June 4, 1997 and July 25, 1997 sampling dates respectively. These concentrations exceed NYSDEC Water Quality Standards and Guidance Values. The NYSDEC Water Quality Standards and Guidance Values for these

3.1 Groundwater Laboratory Analytical Results (Cont'd)

compounds are: Benzene 0.7 ppb, Ethylbenzene by 5 ppb, Toluene 5 ppb, o-Xylene 5 ppb, m-Xylene 5 ppb, n-Propylbenzene 5 ppb, 1,2,4-Trimethylbenzene 5 ppb, 1,3,5-Trimethylbenzene 5 ppb, n-Butylbenzene 5 ppb and Naphthalene 10 ppb.

The laboratory results, for the sample which was collected July 25, 1997 from MW-5, indicated the following concentrations exceeding NYSDEC Water Quality Standards and Guidance Values: Benzene 4.9 ppb, Ethylbenzene 88 ppb, Toluene 55 ppb, o-Xylene 27 ppb, m/p-Xylene 260 ppb, Isopropylbenzene 6.0 ppb, n-Propylbenzene 20 ppb, 1,2,3-Trimethylbenzene 120 ppb, 1,3,5-Trimethylbenzene 56 ppb, n-Butylbenzene 19 ppb and Naphthalene 22 ppb. The results for the July 25, 1997 sample from MW-6 indicated the following concentrations which exceeded

NYSDEC Water Quality Standards and Guidance Values: Benzene 1900 ppb, Ethylbenzene 97 ppb, Toluene 240 ppb, o-Xylene 150 ppb, m/p-Xylene 807 ppb, n-Propylbenzene 42 ppb, 1,2,3-Trimethylbenzene 240 ppb, 1,3,5-Trimethylbenzene 97 ppb and Naphthalene 103 ppb.

Results from the USEPA Method 8100 laboratory analyses conducted on the groundwater sample collected from MW-1 and from MW-6 on July 25, 1997 revealed concentrations of Naphthalene which exceeds NYSDEC Water Quality Standards and Guidance Value of 10 ppb.

In addition, samples were collected from the kitchen sink of the mini-mart located on-site on June 4, 1997 and July 25, 1997. The water was allowed to run for approximately three minutes prior to sampling. The samples were submitted for laboratory analyses in accordance with USEPA Method 8021. Results from the laboratory analyses did not indicate the presence of a detectable concentration of contaminants for the laboratory parameters and detection limits for which the analysis was conducted. Therefore the on-site drinking water supply indicates compliance with NYSDEC Water Quality Standards and Guidance Values. The groundwater laboratory analytical data is summarized on in Appendix C and the groundwater laboratory analytical reports are included in Appendix D.

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4.0 CONCLUSIONS

The 2ND and 3RD quarter groundwater monitoring at the Alaskan Oil Route 13 & Cemetery Street gas station in Altmar, New York, indicates petroleum contamination of the groundwater at the site. As a result of the recommendations stated in the preliminary subsurface investigation report submitted by CES on May 30, 1997, three additional groundwater monitoring wells have been installed and incorporated into the groundwater monitoring program at the site.

Results from the USEPA Method 8021 and USEPA Method 8100 laboratory analyses conducted on the groundwater samples collected from MW-2, MW-3 MW-4 and MW-7 indicate compliance with NYSDEC Water Quality Standards and Guidance Values. Results from the USEPA Method 8100 laboratory analyses conducted on the groundwater samples collected from MW-1 and MW-6 detected concentrations of Naphthalene which exceed NYSDEC Water Quality Standards and Guidance Values. Results from the USEPA Method 8021 analyses conducted on the samples collected from monitoring well MW-1, MW-5 and MW-6 identified numerous compounds at concentrations which exceed NYSDEC Water Quality Standards and Guidance Values.

5.0 RECOMMENDATIONS

CES recommends that monitoring wells MW-1 through MW-7 be sampled on a quarterly basis for analyses in accordance with USEPA Methods 8021 and 8100. In addition to developing analytical history files of groundwater quality data, additional monitoring will provide groundwater elevation data indicating fluctuations, if any, in groundwater flow patterns across the site. Based on the results from laboratory analyses which indicate that two of the new wells reveal concentrations of numerous petroleum related compounds which exceed NYSDEC Water Quality Standards and Guidance Values, additional groundwater monitoring wells may be needed in the vicinity of MW-5 and MW-6 to delineate the downgradient edge of the plume.

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5.0 RECOMMENDATIONS (Cont'd)

In the event that quarterly groundwater monitoring indicates petroleum compounds in the samples collected from MW-2 which is hydrologically cross-gradient to the direction of groundwater flow, CES will recommend installing an activated carbon water treatment system on the drinking water supply at the station. Likewise, CES recommends sampling the groundwater supply at Lynn's Salmon River Inn adjoining the north side of the site. In the event that petroleum related compounds are found in the water, CES will recommend installation of an activated carbon filtration system. If the water from Lynn's Salmon River Inn is found to be clean, quarterly water quality data from monitoring well MW-4 will be reviewed and if petroleum related contamination is identified in this well, protection of the upgradient drinking water supply well will be recommended.

Once the subsurface plume has satisfactorily been delineated, CES will conduct a Risk-Based Corrective Action (RBCA) evaluation of the site. The evaluation will include developing site conceptual exposure scenarios (SCES) for the source-pathway-receptor-route combinations through which potential routes of human exposure may result. Following the additional sampling of monitoring wells, site soil and groundwater concentrations associated with the site will be compared to relevant RBCA closure values.

CES

Appendix A

Figure - 1 Site Map
Figure - 2 Groundwater Elevation Map
Figure - 3 USGS Topographic Map, Richland Quadrangle

N

NEW YORK STATE ROUTE 13

201'±

MW-5

MW-1

MW-6

STORM

LYNN'S
SALOMON RIVER
INN

CEMETERY STREET

TRAILER

GARAGE

MW-2

ALTMAR
MINI MART

PUMP ISLAND

UST
FARM

MW-4

MW-3

RESIDENCE

MW-7

RESIDENCE

CHURCH STREET

RESIDENCE

GARAGE

RESIDENCE

VFW

LEGEND:

MW – MONITORING WELL

– DRINKING WATER WELL

– STORM CATCH BASIN

FIGURE 1

SCALE: 1"=40'

DATE: 7/25/97

SITE MAP

Alaskan Oil, Inc.
Route 13 and Cemetery Street
Altmar, N.Y.

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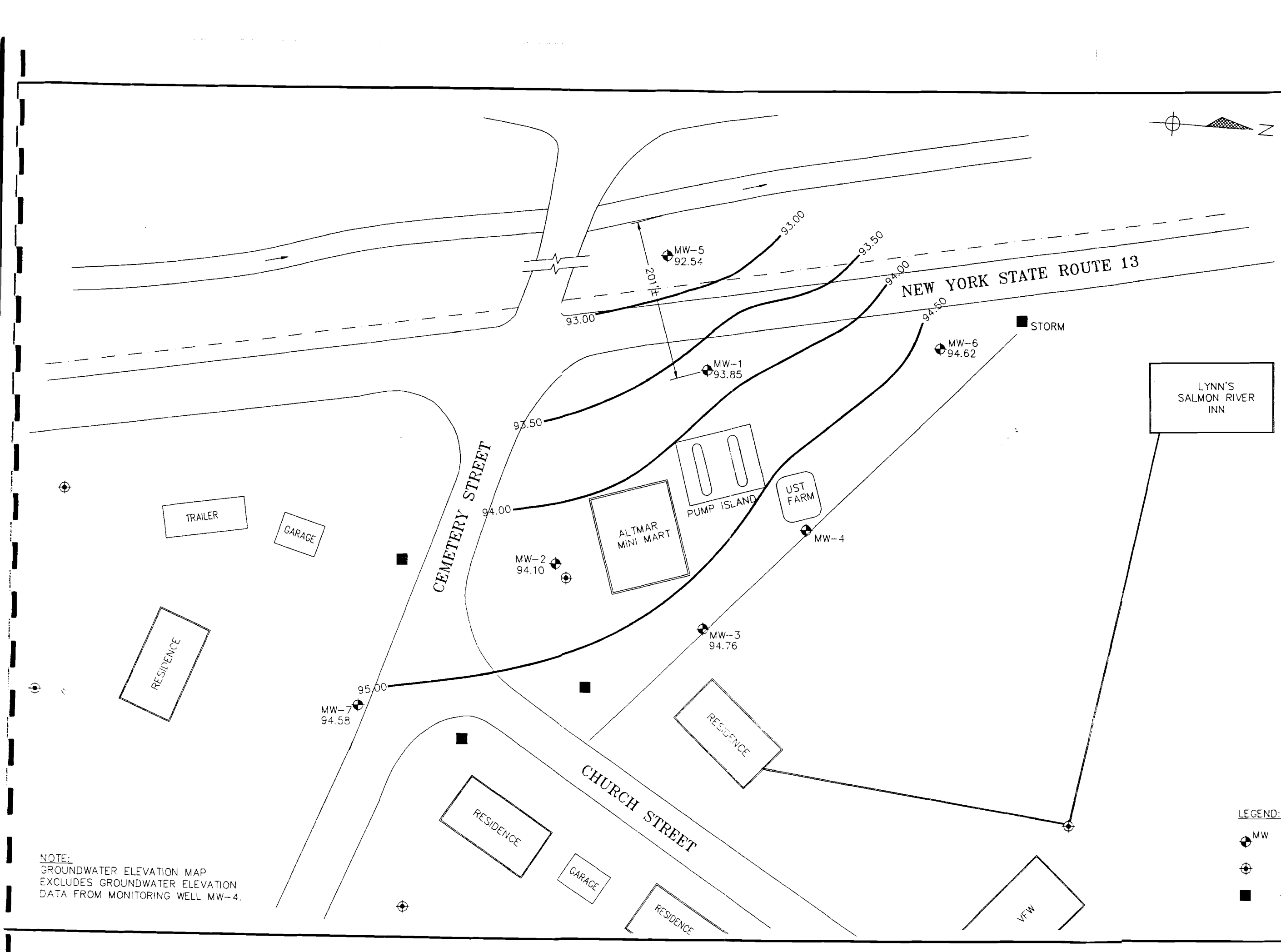
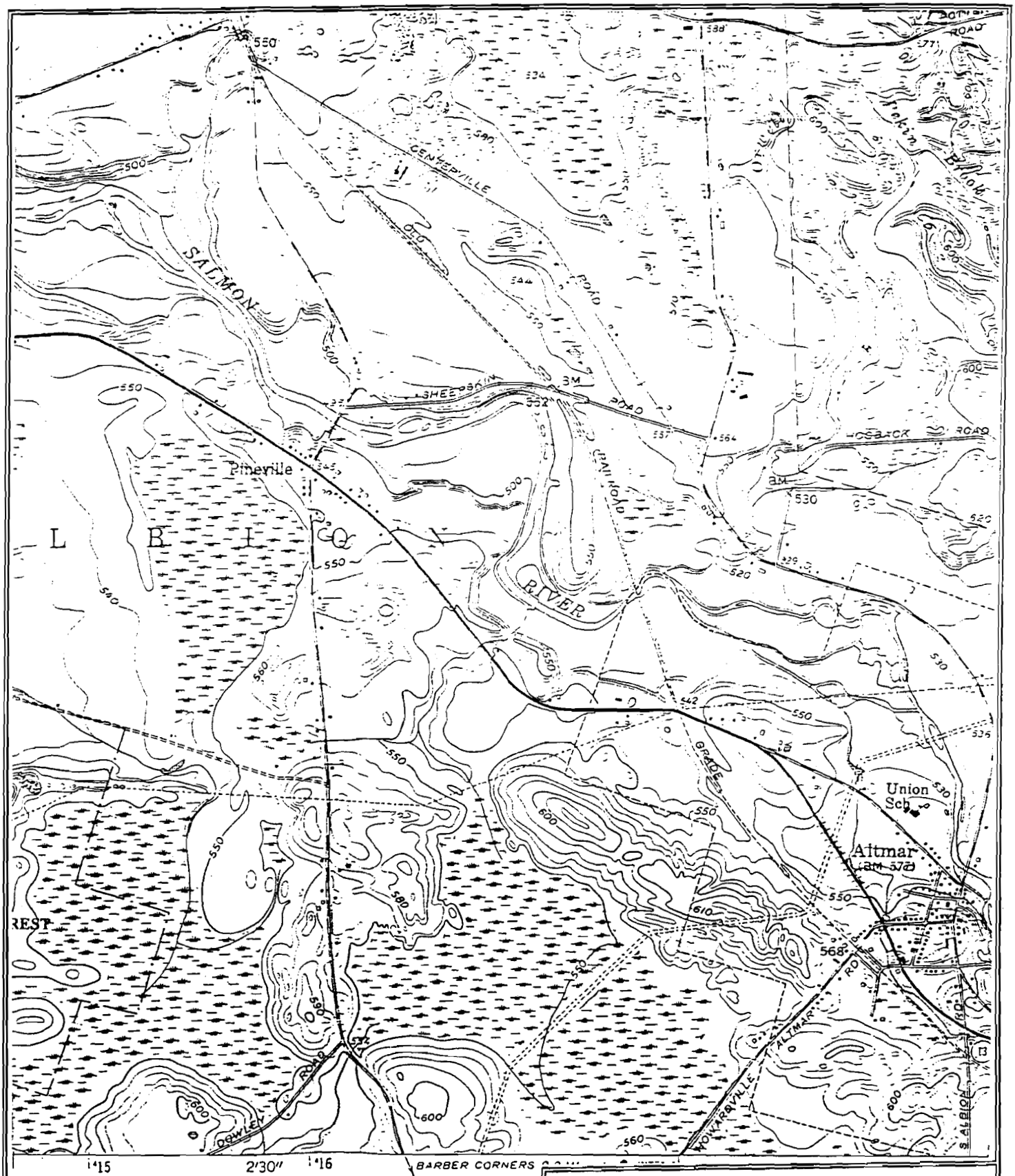


NOTE:
GROUNDWATER ELEVATION MAP EXCLUDES GROUNDWATER ELEVATION DATA FROM MONITORING WELL MW-4.

FIGURE 2
GROUNDWATER ELEVATION MAP
Alaskan Oil, Inc.
Route 13 and Cemetery Street
Altmar, N.Y.
SCALE: 1"=40'
DATE: 7/25/97
CES Certified Environmental Services, Inc.



USGS Topographic Map
Richland Quadrangle
Alaskan Oil, Inc.
Altmar Mini Mart
Route 13 & Cemetery Street
Altmar, New York

CES

Appendix B

Soil Boring Logs
Groundwater Monitoring Well Construction Details

CES Certified Environmental Services, Inc.

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Phone 315-478-2374
Fax 315-478-2107

MONITORING WELL #5 BORING LOG

PROJECT: AOI #326
Altmar Mini-Mart

LOCATION: Rte 13 & Cemetery Rd.
Altmar, NY

GEOLOGIST: Kevin R. Rowe

DRILLING CONTRACTOR: Alaskan Remediation

DRILLER(S): Scott Blake

DATE: June 18, 1997

BORING LOCATION: 8' N X 99' W from northwest corner of building

BORING DESIGNATION: MW-5

GROUNDWATER:

BACKGROUND PID= 0.0ppm

DEPTH (ft)	BLOW COUNT (/ft)	PID READINGS (ppm)	SOIL IDENTIFICATION	OBSERVATIONS R = Recovery
0'-2'	N/A	N/A	N/A	N/A
2'-4'	N/A	0.0	Brown fine SAND, tr. SILT, loose, non-cohesive, dry-damp	R = 0.8'
4'-6'	N/A	3.5	Brown/black fine/v.f. SAND, tr. SILT, loose-soft, semi-cohesive, damp-moist, (organic odor)	R = 1.1'
6'-8'	N/A	8	Black v.f. SAND, little SILT, cohesive, med. stiff, tr. till, organic odor, moist-wet	R = 1.2'
8'-10'	N/A	40	Brown/lt. gray v.f. SAND, tr. SILT, semi-cohesive, med. dense, wet	R = 1.4'
10'-12'	N/A	5	Purple/lt. gray v.f. SAND, little SILT, med. dense, non-cohesive, laminated bedding of SILT lenses, wet	R = 1.6'
12'-14'	N/A	2	Pink/lt. gray v.f. SAND, little SILT, med. dense, non-cohesive, laminated bedding of silt lenses, wet	R = 1.3'

NOTE: Method of Investigation: Hollow Stem Auger
Classification visual by Geologist
R = Recovery from 2" diameter, 2' split spoon sampler
Pushing spoons directly due to rain
Blow Count = Number of 30" drops with 140 lb. hammer per 1'
N/A = Not Applicable

CES Certified Environmental Services, Inc.

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MONITORING WELL #6 BORING LOG

PROJECT: AOI #326
Altmar Mini-Mart

LOCATION: Rte 13 & Cemetery Rd.
Altmar, NY

GEOLOGIST: Kevin R. Rowe

DRILLING CONTRACTOR: Alaskan Remediation

DRILLER(S): Scott Blake

DATE: June 18, 1997

BORING LOCATION: 134' N X 49' W from northwest corner of building

BORING DESIGNATION: MW-6

GROUNDWATER:
BACKGROUND PID = 0.0ppm

DEPTH (ft)	BLOW COUNT (/ft)	PID READINGS (ppm)	SOIL IDENTIFICATION	OBSERVATIONS R = Recovery
0'-2'	N/A	N/A	Asphalt, GRAVEL and SAND fill	N/A
2'-4'	12 18	0.0	Brown med./fine SAND, tr. SILT, loose-med. dense, non-cohesive, tr. GRAVEL, dry-damp	R = 1.5'
4'-6'	17 12	0.0	Brown fine/v.f. SAND, tr. SILT, tr. till, loose-med. dense, non-cohesive, damp-moist	R = 1.4'
6'-8'	10 25	0.1	Brown fine/v.f. SAND, tr. SILT, little till, semi-cohesive, fissle, med. dense - med. stiff, moist-wet	R = 1.6'
8'-10'	7 8	0.2	Olive v.f. SAND, little SILT, semi-cohesive, fissle, med. dense-med. stiff, wet	R = 1.7'
10'-12'	4 7	0.1	Olive/lt. gray v.f. SAND, some SILT, med. dense - med. stiff, semi-cohesive, laminated bedding of SILT lenses, wet	R = 1.7'

NOTE: Method of Investigation: Hollow Stem Auger
Classification visual by Geologist
R = Recovery from 2" diameter, 2' split spoon sampler
Blow Count = Number of 30" drops with 140 lb. hammer per 1'
N/A = Not Applicable

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MONITORING WELL #7 BORING LOG

PROJECT: AOI #326
Altmar Mini-Mart

LOCATION: Rte 13 & Cemetery Rd.
Altmar, NY

GEOLOGIST: Kevin R. Rowe

DRILLING CONTRACTOR: Alaskan Remediation

DRILLER(S): Scott Blake

DATE: June 18, 1997

BORING LOCATION: 100' S X 55' E from southwest corner of building

BORING DESIGNATION: MW-7

GROUNDWATER:

BACKGROUND PID= 0.0ppm

DEPTH (ft)	BLOW COUNT (/ft)	PID READINGS (ppm)	SOIL IDENTIFICATION	OBSERVATIONS R = Recovery
0'-2'	N/A	N/A	Topsoil, Brown fine SAND, loose, non-cohesive, damp	N/A
2'-4'	5 3	0.1	Brown fine SAND, tr. GRAVEL, loose, non-cohesive, dry	R = 0.8'
4'-6'	6 4	0.1	Lt. Brown fine/v.f. SAND, tr. SILT, semi-cohesive, soft-med. stiff, moist-wet	R = 1.5'
6'-8'	13 12	0.2	Brown med/fine/v.f. SAND, tr. SILT, little till, non-cohesive, med. dense, tr. GRAVEL, wet	R = 1.4'
8'-10'	5 5	0.1	Brown course/med/fine SAND, tr. SILT, loose, non-cohesive, wet	R = 1.7'
10'-12'	7 9	0.1	10'-11' Brown course/med/fine SAND, tr. SILT, loose, non-cohesive, wet; 11'-12' Lt. Brown fine/v.f. SAND, tr. SILT, soft-med. dense, semi-cohesive, laminated bedding, wet	R = 1.8'

NOTE: Method of Investigation: Hollow Stem Auger
Classification visual by Geologist
R = Recovery from 2" diameter, 2' split spoon sampler
Blow Count = Number of 30" drops with 140 lb. hammer per 1'
N/A = Not Applicable

CES Certified Environmental Services, Inc.

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MONITORING WELL BORING LOG

DRILLING SUMMARY

Geologist: Kevin R. Rowe

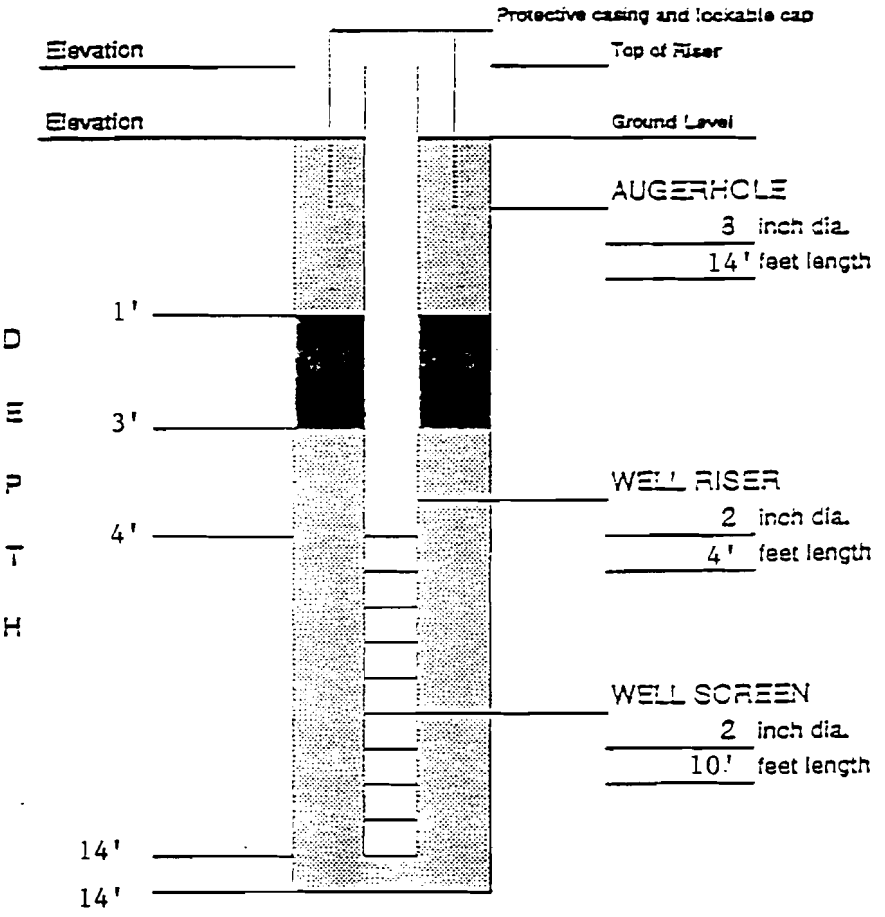
Drilling Company: Alaskan Remediation, Inc.

Driller: Scott Blake

Date: June 18, 1997

GEOLOGIC LOG

depth (ft)	lithology
0'-14'	SAND



WELL DESIGN

CASING MATERIAL

Surface: Flush Mount

Monitor: 2" diameter Schedule 40 PVC

SCREEN MATERIAL

Type: Schedule 40 PVC (2" diameter)

Slot Size: 0.010"

SEAL MATERIAL

Seal #1 Type Bentonite Pellets
Setting: 1' - 3'

Seal #2 Type Portland Cement
Setting: surface - 1'

FILTER MATERIAL

Type: #3 Q-ROK Silica Sand

Setting: Well set at 14'

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client:	Project:	Project No: #326
Alaskan Oil, Inc.	Altmar Mini-Mart Route 13 & Cemetery Road Altmar, New York	**Well No:** MW-5

CES Certified Environmental Services, Inc.

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Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

MONITORING WELL BORING LOG

DRILLING SUMMARY

Geologist: Kevin R. Rowe

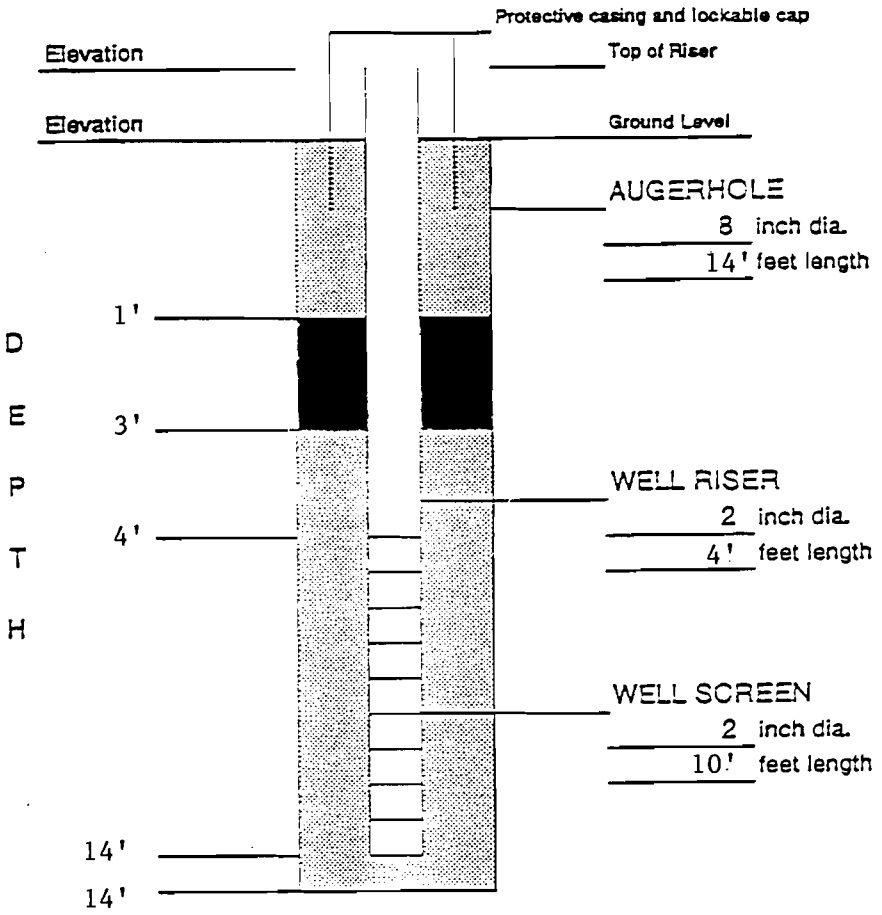
Drilling Company: Alaskan Remediation, Inc.

Driller: Scott Blake

Date: June 18, 1997

GEOLOGIC LOG

depth (ft)	lithology
0'-14'	SAND



WELL DESIGN

CASING MATERIAL

Surface: Flush Mount

Monitor: 2" diameter Schedule 40 PVC

SCREEN MATERIAL

Type: Schedule 40 PVC (2" diameter)

Slot Size: 0.010"

SEAL MATERIAL

Seal #1 Type Bentonite Pellets
Setting: 1' - 3'

Seal #2 Type Portland Cement
Setting: surface - 1'

FILTER MATERIAL

Type: #3 Q-ROK Silica Sand

Setting: Well set at 14'

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client:	Project:	Project No: #326
Alaskan Oil, Inc.	Altmar Mini-Mart Route 13 & Cemetery Road Altmar, New York	**Well No:** MW-6

CES Certified Environmental Services, Inc.

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

MONITORING WELL BORING LOG

DRILLING SUMMARY

Geologist: Kevin R. Rowe

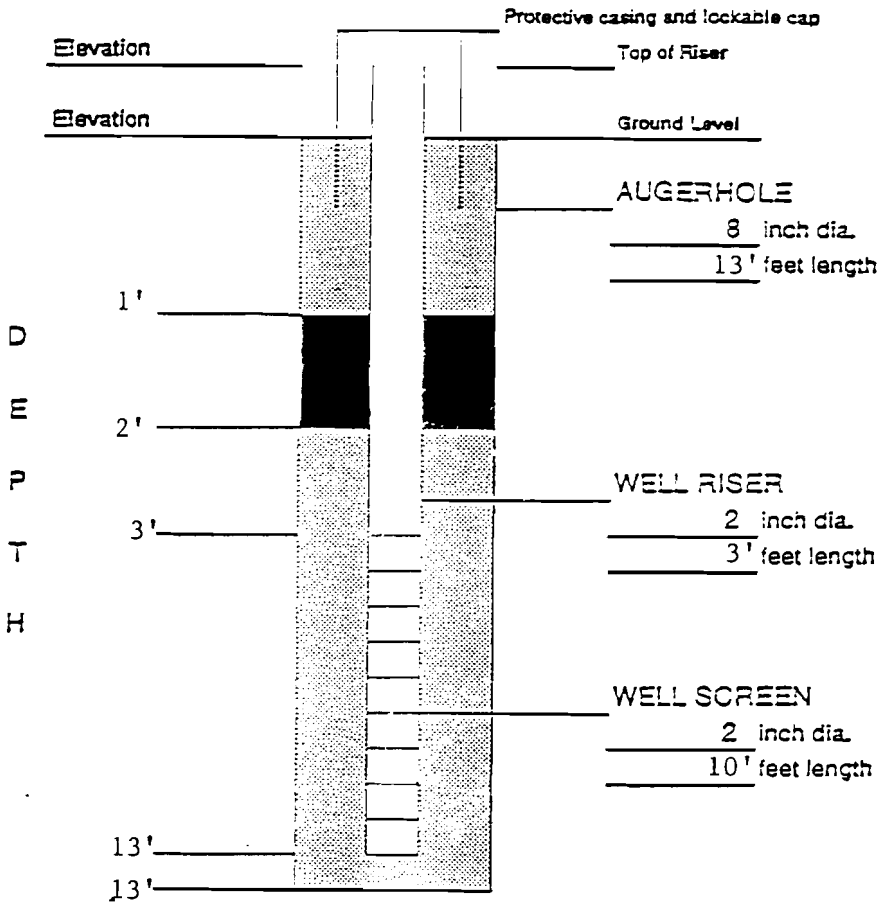
Drilling Company: Alaskan Remediation, Inc.

Driller: Scott Blake

Date: June 18, 1997

GEOLOGIC LOG

depth (ft)	lithology
0'-13'	SAND



WELL DESIGN

CASING MATERIAL

Surface: Standpipe Riser

Monitor: 2" diameter Schedule 40 PVC

SCREEN MATERIAL

Type: Schedule 40 PVC (2" diameter)

Slot Size: 0.010"

SEAL MATERIAL

Seal #1 Type Bentonite Pellets
Setting: 1' - 2'

Seal #2 Type Portland Cement
Setting: surface - 1'

FILTER MATERIAL

Type: #3 Q-ROK Silica Sand

Setting: Well set at 13'

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client:	Project:	Project No: #326
Alaskan Oil, Inc.	Altmar Mini-Mart Route 13 & Cemetery Road Altmar, New York	**Well No:** MW-7

CES

Appendix C

Summary of Groundwater Analytical Data
Groundwater Elevation Data

Alaskan Oil, Inc
Altmar Mini Mart
Rte 13 & Cemetary Road
Altmar, New York

Groundwater Analytical Results

Method 8021	STANDARD	MW-1		MW-2		MW-3		MW-4		MW-5	MW-6	MW-7
		6/04/97	7/25/97	6/04/97	7/25/97	6/04/97	7/25/97	6/04/97	7/25/97	7/25/97	7/25/97	7/25/97
Benzene	0.7 ug/L	16600 ug/L	18900 ug/L	<0.7 ug/L	<0.7 ug/L	<0.7 ug/L	< 0.7 ug/L	< 0.7 ug/L	< 0.7 ug/L	4.9 ug/L	1900 ug/L	< 0.7 ug/L
Ethylbenzene	5 ug/L	4300 ug/L	3400 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	88 ug/L	97 ug/L	< 1.0 ug/L
Toluene	5 ug/L	36700 ug/L	34500 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	55 ug/L	240 ug/L	< 1.0 ug/L
O-Xylene	5 ug/L	7400 ug/L	6400 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	27 ug/L	150 ug/L	< 1.0 ug/L
M-Xylene	5 ug/L	14600* ug/L	12500* ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	260* ug/L	807* ug/L	< 1.0 ug/L
P-Xylene	5 ug/L	* ug/L	* ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	* ug/L	* ug/L	< 1.0 ug/L
Isopropylbenzene	5 ug/L	< 250 ug/L	< 250 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	6 ug/L	<25 ug/L	< 1.0 ug/L
N-Propylbenzene	5 ug/L	535 ug/L	< 250 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	20 ug/L	42 ug/L	< 1.0 ug/L
P-Isopropyltoluene	5 ug/L	< 250 ug/L	< 250 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 5.0 ug/L	<25 ug/L	< 1.0 ug/L
1,2,4-Trimethylbenzene	5 ug/L	3900 ug/L	2600 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	120 ug/L	240 ug/L	< 1.0 ug/L
1,3,5-Trimethylbenzene	5 ug/L	1450 ug/L	1100 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	56 ug/L	97 ug/L	< 1.0 ug/L
N-Butylbenzene	5 ug/L	490 ug/L	< 250 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	19 ug/L	<25 ug/L	< 1.0 ug/L
Sec-Butylbenzene	5 ug/L	< 250 ug/L	< 250 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 1.0 ug/L	< 5.0 ug/L	<25 ug/L	< 1.0 ug/L
Naphthalene	10 ug/L	750 ug/L	1700 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 5.0 ug/L	22 ug/L	103 ug/L	< 5.0 ug/L
Methyl-t-Butyl Ether	50 ug/L	< 1000 ug/L	< 1000 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 5.0 ug/L	< 100 ug/L	< 5.0 ug/L
Method 8100												
Anthracene	50 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Fluorene	50 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Phenanthrene	50 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Pyrene	50 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Acenapthene	20 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Benzo(a)anthracene	0.002 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Fluoranthene	50 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Benzo(b)fluoranthene	0.002 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Benzo(k)fluoranthene	0.002 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Chrysene	0.002 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Benzo(a)pyrene	0.002 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Benzo(g,h,i)perylene	0.002 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Inden0(1,2,3-cd)pyrene	0.002 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Dibenz(a,h)anthracene	50 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L
Naphthalene	10 ug/L	2380 ug/L	540 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	48 ug/L	< 5 ug/L
Acenaphthylene	20 ug/L	< 50 ug/L	< 5 ug/L	< 5.0 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L	< 5 ug/L

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

Groundwater Elevation Data

Alaskan Oil, Inc. Route 13 & Cemetery Street Altmar, New York						
Well #	Top of Casing Elevation PVC	Top of Screen Elevation	Groundwater Elevations			
			01/23/97	03/26/97	06/04/97	07/25/97
MW-1	100.00	98.0	93.39	93.39	94.870	93.85
MW-2	100.18	98.2	93.24	93.24	94.63	94.10
MW-3	100.06	98.1	95.05	95.05	95.78	94.76
MW-4	99.65	97.7	94.16	94.16	93.89	92.94
MW-5	99.23	95.2	NA	NA	NA	92.54
MW-6	100.50	96.5	NA	NA	NA	94.62
MW-7	100.45	97.5	NA	NA	NA	94.58

Note: All measurements recorded in feet
Monitoring wells were resurveyed by CES in July 1997
Top of Casing Elevation is Top of PVC riser
NA - Not Available

CES

Appendix D

Groundwater Analytical Reports

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 06/26/97

SAMPLE NUMBER- 135659 SAMPLE ID- MW-1 SAMPLE MATRIX- WA
DATE SAMPLED- 06/04/97 TIME SAMPLED- 1330
DATE RECEIVED- 06/05/97 SAMPLER- Kevin R. Rowe RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			06/17/97		BLD		
Benzene	EPA 8021			06/17/97		BLD	16600	ug/L
Ethylbenzene	EPA 8021			06/17/97		BLD	4300	ug/L
Toluene	EPA 8021			06/17/97		BLD	36700	ug/L
o-Xylene	EPA 8021			06/17/97		BLD	7400	ug/L
m-Xylene	EPA 8021			06/17/97		BLD	14600*	ug/L
p-Xylene	EPA 8021			06/17/97		BLD	*	ug/L
Isopropylbenzene	EPA 8021			06/17/97		BLD	< 250	ug/L
n-Propylbenzene	EPA 8021			06/17/97		BLD	535	ug/L
p-Isopropyltoluene	EPA 8021			06/17/97		BLD	< 250	ug/L
1,2,4-Trimethylbenzene	EPA 8021			06/17/97		BLD	3900	ug/L
1,3,5-Trimethylbenzene	EPA 8021			06/17/97		BLD	1450	ug/L
n-Butylbenzene	EPA 8021			06/17/97		BLD	490	ug/L
sec-Butylbenzene	EPA 8021			06/17/97		BLD	< 250	ug/L
Naphthalene	EPA 8021			06/17/97		BLD	750	ug/L
Methyl-t-Butyl Ether	EPA 8021			06/17/97		BLD	< 1000	ug/L
EPA 8100 SCAN	EPA 8100	06/11/97	KSH	06/18/97		KMS		
ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
FLUORENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
PHENANTHRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L

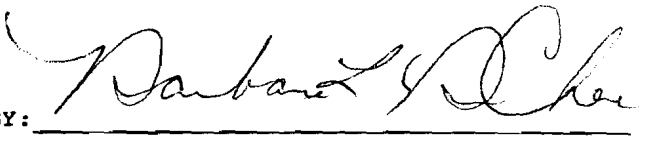
CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 135659

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
BENZO(A)ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
CHRYSENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
BENZO(A)PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L
NAPHTHALENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	2380	ug/L
ACENAPHTHYLENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 50	ug/L

*Chromatographically, para and meta-Xylene co-elutes on the gas chromatogram. The reported value may therefore represent either of these compounds or a combination thereof.

NYSDOH LAB ID NO. 11246 APPROVED BY: 

CES
Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Alaska Oil Inc — LOG NO. 135659
CONTACT: Richard Neugebauer — WELL NO. mw-1
LOCATION: AOI/PEF #326 Altmar, NY — WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 6-4-97 Purge Start Time: 1130 Purge End Time: 1136

Total Well Depth 12.02' — # Well Volumes Purged 2 — Color clr / brn / brn
Depth to Water 6.27' (Prod. 5.07') — Total Volume Purged well purged dry @ 2 gal. — Turbidity M / H / H
Well Volume .92 — Final Depth to Water static — Odor Petro
Purge Method Bailer — SAMPLE COLLECTED: Time 1330 — Date 6-4-97

WEATHER CONDITIONS: Sunny Temp. 70° Wind 5mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		12°C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	6.9	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 6-4-97 Time 1330 By K.R. Rowe

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	2
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling Petro (gasoline) odor ; 0.7' product recorded.
New Lock Installed
Key #3303

Collected By Kenneth R. Rowe — Date 6-4-97
Delivered By Kenneth R. Rowe — Date 6-5-97 — Time 0800
Received By Christine Miguel — Date 6/5/97 — Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 06/26/97

SAMPLE NUMBER- 135660 SAMPLE ID- MW-2 SAMPLE MATRIX- WA
DATE SAMPLED- 06/04/97 TIME SAMPLED- 1345
DATE RECEIVED- 06/05/97 SAMPLER- Kevin R. Rowe RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			06/17/97		BLD		
Benzene	EPA 8021			06/17/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
Toluene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021			06/17/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021			06/17/97		BLD	< 5.0	ug/L
EPA 8100 SCAN	EPA 8100	06/11/97	KSH	06/18/97		KMS		
ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L

CES Certified Environmental Services, Inc.

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Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 135660

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
ACENAPHTHYLENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: _____

CES
Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Glaskan Oil, Inc. LOG NO. 135660

CONTACT: Richard Neugebauer WELL NO. MW-2

LOCATION: AOI/PEF # 326 Altmar, NY. WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 6-4-97 Purge Start Time: 1140 Purge End Time: 1150

Total Well Depth 10.86' # Well Volumes Purged 4 Color Lt. Org/Lt. Org/Lt. Org.

Depth to Water 5.55' Total Volume Purged 4 gal. Turbidity L/M/M

Well Volume .85 Final Depth to Water STATIC Odor None

Purge Method Bailer **SAMPLE COLLECTED:** Time 1345 Date 6-4-97

WEATHER CONDITIONS: Sunny Temp. 70° Wind @ 5 mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		10 °C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	7.1	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 6-4-97 Time 1345 By K.R. Rowe

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	2
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling New Lock Installed Key #3303

Collected By Kenneth R. Rowe Date 6/4/97

Delivered By Kenneth R. Rowe Date 6/5/97 Time 0800

Received By Christine Miguel Date 6/5/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 06/26/97

SAMPLE NUMBER- 135661 SAMPLE ID- MW-3 SAMPLE MATRIX- WA
DATE SAMPLED- 06/04/97 TIME SAMPLED- 1400
DATE RECEIVED- 06/05/97 SAMPLER- Kevin R. Rowe RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			06/17/97		BLD		
Benzene	EPA 8021			06/17/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
Toluene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021			06/17/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021			06/17/97		BLD	< 5.0	ug/L
EPA 8100 SCAN	EPA 8100	06/11/97	KSH	06/18/97		KMS		
ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L

Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 135661

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
ACENAPHTHYLENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY:

CES
Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Alaskan Oil, Inc. LOG NO. 135661

CONTACT: Richard Neugebauer WELL NO. MW-3

LOCATION: AOI/PEF #326 Altmar, N.Y. WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 6/4/97 Purge Start Time: 1155 Purge End Time: 1213

Total Well Depth 12.17' # Well Volumes Purged 4 Color lt.brn/lt.brn lt.brn

Depth to Water 4.28' Total Volume Purged 5 gal. Turbidity m/m m

Well Volume 1.3 Final Depth to Water Static Odor None

Purge Method Bailer **SAMPLE COLLECTED:** Time 1400 Date 6-4-97

WEATHER CONDITIONS: Sunny Temp. 70° Wind 5 mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		10 °C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	7.1	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 6-4-97 Time 1400 By K.R. Rowe

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	*3
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling New Lock Installed Key #3303

Collected By Kenny K. Rowe Date 6/4/97

Delivered By Kenny K. Rowe Date 6/5/97 Time 0800

Received By Christine Miguel Date 6/5/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 06/26/97

SAMPLE NUMBER- 135662 SAMPLE ID- MW-4 SAMPLE MATRIX- WA
DATE SAMPLED- 06/04/97 TIME SAMPLED- 1415
DATE RECEIVED- 06/05/97 SAMPLER- Kevin R. Rowe RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			06/17/97		BLD		
Benzene	EPA 8021			06/17/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
Toluene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021			06/17/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021			06/17/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021			06/17/97		BLD	< 5.0	ug/L
EPA 8100 SCAN	EPA 8100	06/11/97	KSH	06/18/97		KMS		
ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 135662

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L
ACENAPHTHYLENE	EPA 8100	06/11/97	KSH	06/18/97		KMS	< 5	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY:

CES Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Glasgow Oil Inc. LOG NO. 1356d02
CONTACT: Richard Neugebauer WELL NO. MW-4
LOCATION: AOI/REF # 326 Altmar, N.Y. WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 6/4/97 Purge Start Time: 1215 Purge End Time: 1222

Total Well Depth	11.12'	# Well Volumes Purged	2.5	Color	lt. brn / brn / brn
Depth to Water	5.76'	Total Volume Purged	Purged dry @ 2.5 gal.	Turbidity	M / H / H
Well Volume	.86	Final Depth to Water	static	Odor	None
Purge Method	Bailer	SAMPLE COLLECTED: Time	1415	Date	6-4-97

WEATHER CONDITIONS: Sunny Temp. 70° Wind 5 mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		8.5°C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	7.0	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 6/9/97 Time 1415 By K.R. Rowe

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	2
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling New Lock Installed Lock # 3303

Collected By Kenneth R. Rowe Date 6/4/97
Delivered By Kenneth R. Rowe Date 6/5/97 Time 0800
Received By Christine Mygatt Date 6/5/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 06/26/97

SAMPLE NUMBER- 135663 SAMPLE ID- Trip Blank SAMPLE MATRIX- WA
DATE SAMPLED- 06/04/97 TIME SAMPLED- 0830
DATE RECEIVED- 06/05/97 SAMPLER- Kevin R. Rowe RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021	06/17/97		BLD		
Benzene	EPA 8021	06/17/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
Toluene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021	06/17/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021	06/17/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021	06/17/97		BLD	< 5.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: _____

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2874
Fax 315-478-2107

SAMPLE CHARACTERIZATION/CHAIN-OF-CUSTODY

CLIENT: Alaskan Oil, Inc. LOG NO. 135663

CONTACT: Richard Neugebauer PE# ( )

SAMPLING INFORMATION:

SAMPLE ID: Trip Blank LOCATION: AOI/PEF# 326 Altmar, NY

SAMPLE TYPE: ☐ Soil ☑ Water ☐ Oil ☐ Wipe ☐ Air ☐ _____

COLLECTION TECHNIQUE: ☐ Composite ☑ Grab ☐ Wipe ☐ Flow Composite ☐ _____

COMPOSITE: (Start) Date _____ Time _____ By _____

(Finish) Date _____ Time _____ By _____

GRAB: Date 6-4-97 Time 0830 By K.R. Rowe

SAMPLE PRESERVATION:

Date 6-4-97 Time 0830 By K.R. Rowe

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

SAMPLE CONTAINERS:

Container	Qty		Qty
☐ Quart Jar (Glass w/Teflon Liner)	___	☑ 40 ml Vial with Teflon Liner	1
☐ 500 ml Plastic Cylinder	___	☐ Quart Jar (Glass w/o Teflon Liner)	___
☐ ½ Gallon (Plastic)	___	☐ Pint Jar (Glass w/Teflon Liner)	___
☐ Coliform Cup	___	☐ Pint Jar (Glass w/o Teflon Liner)	___
☐ Other _____	___		

PARAMETERS: ☐ See Attached Proposal/List

EPA 8021

NOTES: Quarterly Sampling

Collected By Kenji K. Rowe Date 6/4/97

Delivered By Kenji K. Rowe Date 6/5/97 Time 0800

Received By Christine Miguel Date 6/5/97 Time 0800

Received By _____ Date _____ Time _____

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/14/97

SAMPLE NUMBER- 139589 SAMPLE ID- MW-1 SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 1120
DATE RECEIVED- 07/28/97 SAMPLER- K. R. Rowe/P. Conley RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			08/02/97		BLD		
Benzene	EPA 8021			08/02/97		BLD	18900	ug/L
Ethylbenzene	EPA 8021			08/02/97		BLD	3400	ug/L
Toluene	EPA 8021			08/02/97		BLD	34500	ug/L
o-Xylene	EPA 8021			08/02/97		BLD	6400	ug/L
m-Xylene	EPA 8021			08/02/97		BLD	12500*	ug/L
p-Xylene	EPA 8021			08/02/97		BLD	*	ug/L
Isopropylbenzene	EPA 8021			08/02/97		BLD	< 250	ug/L
n-Propylbenzene	EPA 8021			08/02/97		BLD	< 250	ug/L
p-Isopropyltoluene	EPA 8021			08/02/97		BLD	< 250	ug/L
1,2,4-Trimethylbenzene	EPA 8021			08/02/97		BLD	2600	ug/L
1,3,5-Trimethylbenzene	EPA 8021			08/02/97		BLD	1100	ug/L
n-Butylbenzene	EPA 8021			08/02/97		BLD	< 250	ug/L
sec-Butylbenzene	EPA 8021			08/02/97		BLD	< 250	ug/L
Naphthalene	EPA 8021			08/02/97		BLD	1700	ug/L
Methyl-t-Butyl Ether	EPA 8021			08/02/97		BLD	< 1000	ug/L
EPA 8100 SCAN	EPA 8100	07/29/97	KSH	08/05/97		KMS		
ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

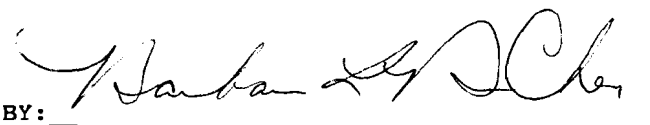
CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 139589

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	540	ug/L
ACENAPHTHYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

*Chromatographically, para and meta-Xylene co-elutes on the gas chromatogram. The reported value may therefore represent either of these compounds or a combination thereof.

NYSDOH LAB ID NO. 11246 APPROVED BY: 

CES Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Alaska Oil Inc. LOG NO. 139589

CONTACT: Richard Nowogbauer WELL NO. MW-1

LOCATION: Mar/Pef #326 Altmar, N.Y. WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 7-25-97 Purge Start Time: 1005 Purge End Time: 1015

Total Well Depth 12.02' # Well Volumes Purged 4 Color Brn / Brn / Brn

Depth to Water 6.15' Product @ 6.12' Total Volume Purged 4 gal. Turbidity H / H / H

Well Volume 0.9 Final Depth to Water static Odor Petro

Purge Method Bailer **SAMPLE COLLECTED:** Time 1120 Date 7-25-97

WEATHER CONDITIONS: Sunny 80° Wind 5 mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		13.5°C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	6.1	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 7-25-97 Time 1120 By K. Rowe / P. Conley

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	2
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling .03' product recorded, Petro odor w/ sheen

Collected By Kenji K. Rowe / Paul Conley Date 7-25-97

Delivered By Kenji K. Rowe Date 7-28-97 Time 0800

Received By Christine Mgue Date 7/28/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/14/97

SAMPLE NUMBER- 139590 SAMPLE ID- MW-2 SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 1110
DATE RECEIVED- 07/28/97 SAMPLER- K. R. Rowe/P. Conley RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			08/02/97		BLD		
Benzene	EPA 8021			08/02/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
Toluene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021			08/02/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021			08/02/97		BLD	< 5.0	ug/L
EPA 8100 SCAN	EPA 8100	07/29/97	KSH	08/05/97		KMS		
ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 139590

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
ACENAPHTHYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY:

CES Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Alaskan Oil, Inc. LOG NO. 139590

CONTACT: Richard Neugebauer WELL NO. MW-2

LOCATION: Rt 31/Parcel 326 Altmar, NY WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 7-25-97 Purge Start Time: 0945 Purge End Time: 0955

Total Well Depth 10.86' # Well Volumes Purged 4 Color Rust / Rust / Rust

Depth to Water 6.08' Total Volume Purged 4 gal. Turbidity H / H / H

Well Volume 0.8 Final Depth to Water static Odor None

Purge Method Bailer **SAMPLE COLLECTED:** Time 1110 Date 7-25-97

WEATHER CONDITIONS: Sunny Temp. 80° Wind 5 mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		16.5°C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	6.6	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 7-25-97 Time 1110 By K. Rowe / P. Conley

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	2
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling

Collected By Kenny R. Rowe / Paul Conley Date 7-25-97

Delivered By Kenny R. Rowe Date 7-28-97 Time 0800

Received By Christine Mayer Date 7/28/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/14/97

SAMPLE NUMBER- 139591 SAMPLE ID- MW-3 SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 1120
DATE RECEIVED- 07/28/97 SAMPLER- K. R. Rowe/P. Conley RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			08/02/97		BLD		
Benzene	EPA 8021			08/02/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
Toluene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021			08/02/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021			08/02/97		BLD	< 5.0	ug/L
EPA 8100 SCAN	EPA 8100	07/29/97	KSH	08/05/97		KMS		
ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 139591

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
ACENAPHTHYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY:

CES Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Alaska Oil Tac — LOG NO. 139591

CONTACT: Richard Neugebauer — WELL NO. MW-3

LOCATION: AOI/PEF # 326 Altmar, N.Y — WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 7-25-97 Purge Start Time: ~~1015~~ 1015 Purge End Time: 1022

Total Well Depth 12.17' — # Well Volumes Purged 4 — Color Rust / Rust / Rust

Depth to Water 5.30' — Total Volume Purged 5 gal. — Turbidity H / H / H

Well Volume 1.1 — Final Depth to Water Static — Odor None

Purge Method Bailer — SAMPLE COLLECTED: Time 1120 — Date 7-25-97

WEATHER CONDITIONS: Sunny Temp. 80° Wind 5mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		19°C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	6.5	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 7-25-97 Time 1120 By K. Rowe / P. Conley

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	2
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling

Collected By Kerry K. Rowe / Paul Conley Date 7-25-97

Delivered By Kerry K. Rowe Date 7-28-97 Time 0800

Received By Christine Miguel Date 7/28/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/14/97

SAMPLE NUMBER- 139592 SAMPLE ID- MW-4 SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 1130
DATE RECEIVED- 07/28/97 SAMPLER- K. R. Rowe/P. Conley RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

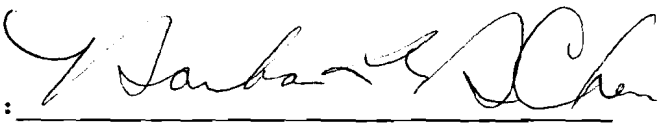
ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			08/02/97		BLD		
Benzene	EPA 8021			08/02/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
Toluene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021			08/02/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021			08/02/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021			08/02/97		BLD	< 5.0	ug/L
EPA 8100 SCAN	EPA 8100	07/29/97	KSH	08/05/97		KMS		
ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 139592

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
ACENAPHTHYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: 

CES Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Alaskan Oil, Inc LOG NO. 139592

CONTACT: Richard Neugebauer WELL NO. MW-4

LOCATION: AOI/PAF #326 Altmar, N.Y. WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 7-25-97 Purge Start Time: 1000 Purge End Time: 1010

Total Well Depth	11.12'	# Well Volumes Purged	4	Color	lt.brn/ lt.brn/ brn
Depth to Water	6.71'	Total Volume Purged	4 gal.	Turbidity	M/M/H
Well Volume	0.7	Final Depth to Water	STATIC	Odor	None
Purge Method	Bailer	**SAMPLE COLLECTED:** Time	1130	Date	7-25-97

WEATHER CONDITIONS: Sunny Temp, 80° Wind 10 mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		12.5°C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	6.6	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 7-25-97 Time 1130 By K. Rowe/P. Conley

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	2
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling

Collected By Kerry R. Rowe/ Paul Conley Date 7-25-97

Delivered By Kerry R. Rowe Date 7-28-97 Time 0800

Received By Christine Maguire Date 7/28/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/14/97

SAMPLE NUMBER- 139593 SAMPLE ID- MW-5 SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 1100
DATE RECEIVED- 07/28/97 SAMPLER- K. R. Rowe/P. Conley RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			08/02/97		BLD		
Benzene	EPA 8021			08/02/97		BLD	4.9	ug/L
Ethylbenzene	EPA 8021			08/02/97		BLD	88	ug/L
Toluene	EPA 8021			08/02/97		BLD	55	ug/L
o-Xylene	EPA 8021			08/02/97		BLD	27	ug/L
m-Xylene	EPA 8021			08/02/97		BLD	260*	ug/L
p-Xylene	EPA 8021			08/02/97		BLD	*	ug/L
Isopropylbenzene	EPA 8021			08/02/97		BLD	6.0	ug/L
n-Propylbenzene	EPA 8021			08/02/97		BLD	20	ug/L
p-Isopropyltoluene	EPA 8021			08/02/97		BLD	< 5.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021			08/02/97		BLD	120	ug/L
1,3,5-Trimethylbenzene	EPA 8021			08/02/97		BLD	56	ug/L
n-Butylbenzene	EPA 8021			08/02/97		BLD	19	ug/L
sec-Butylbenzene	EPA 8021			08/02/97		BLD	< 5.0	ug/L
Naphthalene	EPA 8021			08/02/97		BLD	22	ug/L
Methyl-t-Butyl Ether	EPA 8021			08/02/97		BLD	< 5.0	ug/L
EPA 8100 SCAN	EPA 8100	07/29/97	KSH	08/05/97		KMS		
ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 139593

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
ACENAPHTHYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

*Chromatographically, para and meta-Xylene co-elutes on the gas chromatogram. The reported value may therefore represent either of these compounds or a combination thereof.

NYSDOH LAB ID NO. 11246 APPROVED BY:

CES Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Alaskan Oil, Inc. LOG NO. 139593

CONTACT: Richard Neugebauer WELL NO. MW-5

LOCATION: AOI/PEF # 326 Altmar, N.Y. WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 7-25-97 Purge Start Time: 0948 Purge End Time: 1000

Total Well Depth 14.73' # Well Volumes Purged 4 Color Tan/Tan/Tan

Depth to Water 6.69' Total Volume Purged 5 gal. Turbidity M/M/M

Well Volume 1.3 Final Depth to Water STATIC Odor None

Purge Method Bailer **SAMPLE COLLECTED:** Time 1100 Date 7-25-97

WEATHER CONDITIONS: Sunny Temp. 80° Wind 5mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		10.5°C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	5.9	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 7-25-97 Time 1100 By K. Rowe / P. Conley

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	2
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling 1st sampling of new well

Collected By Kerry R. Rowe / Paul Conley Date 7-25-97

Delivered By Kerry R. Rowe Date 7-28-97 Time 0800

Received By Christine Maguire Date 7/28/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/14/97

SAMPLE NUMBER- 139594 SAMPLE ID- MW-6 SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 1100
DATE RECEIVED- 07/28/97 SAMPLER- K. R. Rowe/P. Conley RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			08/04/97		BLD		
Benzene	EPA 8021			08/04/97		BLD	1900	ug/L
Ethylbenzene	EPA 8021			08/04/97		BLD	97	ug/L
Toluene	EPA 8021			08/04/97		BLD	240	ug/L
o-Xylene	EPA 8021			08/04/97		BLD	150	ug/L
m-Xylene	EPA 8021			08/04/97		BLD	807*	ug/L
p-Xylene	EPA 8021			08/04/97		BLD	*	ug/L
Isopropylbenzene	EPA 8021			08/04/97		BLD	< 25	ug/L
n-Propylbenzene	EPA 8021			08/04/97		BLD	42	ug/L
p-Isopropyltoluene	EPA 8021			08/04/97		BLD	< 25	ug/L
1,2,4-Trimethylbenzene	EPA 8021			08/04/97		BLD	240	ug/L
1,3,5-Trimethylbenzene	EPA 8021			08/04/97		BLD	97	ug/L
n-Butylbenzene	EPA 8021			08/04/97		BLD	< 25	ug/L
sec-Butylbenzene	EPA 8021			08/04/97		BLD	< 25	ug/L
Naphthalene	EPA 8021			08/04/97		BLD	103	ug/L
Methyl-t-Butyl Ether	EPA 8021			08/04/97		BLD	< 100	ug/L
EPA 8100 SCAN	EPA 8100	07/29/97	KSH	08/05/97		KMS		
ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 139594

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	48	ug/L
ACENAPHTHYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

*Chromatographically, para and meta-Xylene co-elutes on the gas chromatogram. The reported value may therefore represent either of these compounds or a combination thereof.

NYSDOH LAB ID NO. 11246 APPROVED BY: [signature]

CES Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Alaskan Oil, Inc. LOG NO. 139594

CONTACT: Richard Neugebauer WELL NO. MW-6

LOCATION: AOT/PEF #326 Altmar, N.Y. WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 7-25-97 Purge Start Time: 0930 Purge End Time: 0945

Total Well Depth	14.60'	# Well Volumes Purged	4	Color	Tan lt. brn / lt. brn
Depth to Water	5.88'	Total Volume Purged	6 gal.	Turbidity	M / M / H
Well Volume	1.4	Final Depth to Water	STATIC	Odor	Petro
Purge Method	Bailer	SAMPLE COLLECTED: Time	1100	Date	7-25-97

WEATHER CONDITIONS: Sunny Temp. 80° Wind 5 mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		14.5°C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	6.4	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 7-25-97 Time 1100 By K. Rowe / P. Copley

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	2
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling, Petro odor, 1st Sampling of new well

Collected By Kenji K. Rowe / Paul Copley Date 7-25-97

Delivered By Kenji K. Rowe Date 7-28-97 Time 0800

Received By Christine Meyer Date 7/28/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/14/97

SAMPLE NUMBER- 139595 SAMPLE ID- MW-7 SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 1100
DATE RECEIVED- 07/28/97 SAMPLER- K. R. Rowe/P. Conley RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021			08/04/97		BLD		
Benzene	EPA 8021			08/04/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
Toluene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021			08/04/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021			08/04/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021			08/04/97		BLD	< 5.0	ug/L
EPA 8100 SCAN	EPA 8100	07/29/97	KSH	08/05/97		KMS		
ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PHENANTHRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 139595

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
ACENAPHTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(B)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(K)FLUORANTHENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
CHRYSENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(A)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
BENZO(G,H,I)PERYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
INDENO(1,2,3-CD)PYRENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
DIBENZ(A,H)ANTHRACENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
NAPHTHALENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L
ACENAPHTHYLENE	EPA 8100	07/29/97	KSH	08/05/97		KMS	< 5	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY:

CES
Certified Environmental Services, Inc.

MONITORING WELL SAMPLE CHARACTERIZATION & CHAIN-OF-CUSTODY

1401 Erie Boulevard East
Syracuse, New York 13210
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: Alaskan Oil, Inc. LOG NO. 139595
CONTACT: Richard Neugebauer WELL NO. MW-7
LOCATION: AOI/PEF # 326 Ammar, NY WELL TYPE/SIZE: 2" PVC

WELL PURGING & SAMPLING: Date: 7-25-97 Purge Start Time: 0948 Purge End Time: 1000

Total Well Depth 12.60' # Well Volumes Purged 4 Color Tan lt. brn/ dark brn
Depth to Water 5.87' Total Volume Purged 5 gal. Turbidity M/M/H
Well Volume 1.0 l Final Depth to Water Static Odor None
Purge Method Bailer SAMPLE COLLECTED: Time 1100 Date 7-25-97

WEATHER CONDITIONS: Sunny Temp. 80° Wind 5 mph

FIELD PARAMETERS:	pH	pH Calibration	Conductivity	Temperature
Initial Reading		@ 4.0 Std = 4.0		13.°C
Intermediate Reading		@ 7.0 Std = 7.0		Redox
Final Reading	6.8	@ 10.0 Std = 10.0		

SAMPLE PRESERVATION:

Date 7-25-97 Time 1100 By K. Rowe/P. Conley

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

Was Sample Filtered? ☑ No ☐ Yes Date: _____ Time: _____

SAMPLE CONTAINERS & QUANTITIES:

☑ Quart Jar (Glass w/Teflon Liner)	2	☑ 40 ml Vial with Teflon Liner	3
☐ 500 ml Plastic Cylinder		☐ Pint Jar (Glass w/Teflon Liner	
☐ ½ Gallon (Plastic)		☐ Other	

PARAMETERS: ☐ See Attached Proposal/List

☐ NYSDEC Part 360 Routine	☐ NYSDEC Part 360 Baseline	☑ EPA 8021	☐ EPA 503.1
☐ 8270 (Base Neutrals)	☐ NYSDOH 310-13	☐ EPA 624	☐ EPA 601/602
		☑ 8100	

NOTES: Quarterly Sampling 1st Sampling of new well

Collected By Kerry R. Rowe/Paul Conley Date 7-25-97
Delivered By Kerry R. Rowe Date 7-28-97 Time 0800
Received By Christine Miguel Date 7/28/97 Time 0800

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

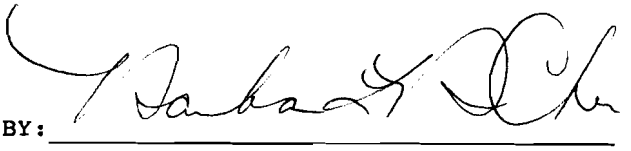
ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/14/97

SAMPLE NUMBER- 139596 SAMPLE ID- Trip Blank SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 0800
DATE RECEIVED- 07/28/97 SAMPLER- K. R. Rowe/P. Conley RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021	08/02/97		BLD		
Benzene	EPA 8021	08/02/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
Toluene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021	08/02/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021	08/02/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021	08/02/97		BLD	< 5.0	ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY: 

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2574
Fax 315-478-2107

SAMPLE CHARACTERIZATION/CHAIN-OF-CUSTODY

CLIENT: Alaskan Oil, Inc. LOG NO. 13959A

CONTACT: Richard Neugebauer P.E.? ( )

SAMPLING INFORMATION:

SAMPLE ID: Trip Blank LOCATION: AOI/PEF #326 Al-Amar, N.Y.

SAMPLE TYPE: ☐ Soil ☑ Water ☐ Oil ☐ Wipe ☐ Air ☐ _____

COLLECTION TECHNIQUE: ☐ Composite ☐ Grab ☐ Wipe ☐ Flow Composite ☐ _____

COMPOSITE: (Start) Date _____ Time _____ By _____

(Finish) Date _____ Time _____ By _____

GRAB: Date 7-25-97 Time 0800 By K. Rowe / P. Conley

SAMPLE PRESERVATION:

Date 7-25-97 Time 0800 By K. Rowe / P. Conley

Preservative: ☐ H_2SO_4 ☐ HNO_3 ☐ NaOH ☑ HCl ☐ $Na_2S_2O_3$ ☑ Cooled to 4° C

☐ Other (Identify) _____

SAMPLE CONTAINERS:

Container	Qty		Qty
☐ Quart Jar (Glass w/Teflon Liner)	___	☑ 40 ml Vial with Teflon Liner	1
☐ 500 ml Plastic Cylinder	___	☐ Quart Jar (Glass w/o Teflon Liner)	___
☐ ½ Gallon (Plastic)	___	☐ Pint Jar (Glass w/Teflon Liner)	___
☐ Coliform Cup	___	☐ Pint Jar (Glass w/o Teflon Liner)	___
☐ Other _____	___		

PARAMETERS: ☐ See Attached Proposal/List

EPA 8021

NOTES: Quarterly Sampling

Collected By Kenny R. Rowe / Paul Conley Date 7-25-97

Delivered By Kenny R. Rowe Date 7-28-97 Time 0800

Received By Christine Miguel Date 7/28/97 Time 0800

Received By _____ Date _____ Time _____

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 06/06/97

SAMPLE NUMBER- 135664 SAMPLE ID- Mini Mart-Kitchen Sink SAMPLE MATRIX- WA
DATE SAMPLED- 06/04/97 TIME SAMPLED- 1430
DATE RECEIVED- 06/05/97 SAMPLER- Kevin R. Rowe RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021	06/06/97		BLD		
Benzene	EPA 8021	06/06/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
Toluene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021	06/06/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021	06/06/97		BLD	< 5.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Barbara L. Cole

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 06/06/97

SAMPLE NUMBER- 135665 SAMPLE ID- Trip Blank SAMPLE MATRIX- WA
DATE SAMPLED- 06/04/97 TIME SAMPLED- 0830
DATE RECEIVED- 06/05/97 SAMPLER- Kevin R. Rowe RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021	06/06/97		BLD		
Benzene	EPA 8021	06/06/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
Toluene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021	06/06/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021	06/06/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021	06/06/97		BLD	< 5.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY:

CES *Certified Environmental Services, Inc.*

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Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

CHAIN OF CUSTODY RECORD

Company: _____ Phone: _____

Address: _____ Fax: _____

_____ P.O. #: _____

Contact Person: _____ Project: _____

Sampled By (print): _____ (sign) _____

SAMPLE NO.	COLLECTED DATE	COLLECTED TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	# OF CONT.	Analysis	COMMENTS

Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received by Lab::	Date	Time

White - CES's Copy • Canary - Return to Client with Report • Pink - Client's Initital Copy

CES Certified Environmental Services, Inc.

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/01/97

SAMPLE NUMBER- 139597 SAMPLE ID- Kitchen Sink-Cold Water Tap SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 1140
DATE RECEIVED- 07/28/97 SAMPLER- Kevin R. Rowe RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021	07/30/97		BLD		
Benzene	EPA 8021	07/30/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
Toluene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021	07/30/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021	07/30/97		BLD	< 5.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: _____

CES Certified Environmental Services, Inc.

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Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

ALASKAN OIL
500 SOLAR STREET
SYRACUSE, NY 13204-
Attn: MR. RICH NEUGEBAUER

PROJECT NAME: AOI/PEF, #326-Altmar
DATE: 08/01/97

SAMPLE NUMBER- 139598 SAMPLE ID- Trip Blank SAMPLE MATRIX- WA
DATE SAMPLED- 07/25/97 TIME SAMPLED- 0800
DATE RECEIVED- 07/28/97 SAMPLER- Kevin R. Rowe RECEIVED BY- CAM
TIME RECEIVED- 0800 DELIVERED BY- Kevin R. Rowe TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
EPA 8021 Scan	EPA 8021	07/30/97		BLD		
Benzene	EPA 8021	07/30/97		BLD	< 0.7	ug/L
Ethylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
Toluene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
o-Xylene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
m-Xylene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
p-Xylene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
Isopropylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
n-Propylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
p-Isopropyltoluene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
1,2,4-Trimethylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
1,3,5-Trimethylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
n-Butylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
sec-Butylbenzene	EPA 8021	07/30/97		BLD	< 1.0	ug/L
Naphthalene	EPA 8021	07/30/97		BLD	< 5.0	ug/L
Methyl-t-Butyl Ether	EPA 8021	07/30/97		BLD	< 5.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY:

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Syracuse, NY 13210
Phone 315-478-2374
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CHAIN OF CUSTODY RECORD

Company: _____ Phone: _____

Address: _____ Fax: _____

_____ P.O. #: _____

Contact Person: _____ Project: _____

Sampled By (print): _____ (sign) _____

Analysis: USEPA Only

SAMPLE NO.	COLLECTED DATE	COLLECTED TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	# OF CONT.	COMMENTS
15917				X	W		2	
15918				X	W		1	

Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received by Lab::	Date	Time

White - CES's Copy • Canary - Return to Client with Report • Pink - Client's Initital Copy