

ALASKA LEGISLATURE SPECIAL COMMITTEE/SUBJECT FILES 8672

2470 SCOM 104: HOUSE SPEC. COMM. OIL & GAS, 1997-98

***City of Wales
P.O. Box 489
Wales, Alaska 99783***

Resolution 97-

This is a resolution of the City of Wales supporting the Alaska Village Cooperative, Inc.

Whereas, the village of Wales is the government entity in our community, and

Whereas, the life, health, and safety of our people and the environment remain state and federal goals for rural Alaska, and

Whereas, Alaska's economy is dependent upon the resources of its rural regions; and

Whereas, the State of Alaska has used the revenues gained from its resources to develop and enhance spill response infrastructure in urban Alaska; and

Whereas, the EPA (Environmental Protection Agency) finds the electric facilities "substantial harm facilities" and

Whereas, the EPA (Environmental Protection Agency) requires us to have a facility response plan for facilities having over 42,000 gallons of fuel storage, the same plan is required by the larger facilities in the lower 48 states: and

Whereas, the village has to have fuel for our village for electric and heat to our homes and city offices, health clinic, water and sewer plants, etc, and

Whereas, the 470's fund was set up for prevention and response, and

Whereas, the 470's fund has been used for a spill response barge for Seldovia, and

Whereas, the village does not have money to comply with EPA regulations, and the electric company is a non-profit cooperative owned by the people, and

Whereas, we are asking for funds for our native community, and to meet the requirements of the EPA, ADEC, and U.S. Coast Guard regulations, and

Whereas, the village would like the equipment to be listed and used in the facility response plan submitted to the agencies, and

Whereas, the village would like the State of Alaska, EPA and the U.S. Coast Guard to use our

native people as responders, in the event of a emergency spill in rural Alaska

Whereas, in the event we are not eligible for 470's funds for our government entity, we ask the State of Alaska to request a amendment to OPA 90, so that our SPCC and Operations Manual be sufficient for our village,

Whereas, without the 470's program, rural Alaska faces an economic and environmental crisis;

Be it resolved that the City of Wales supports the plan developed by the Alaska Village Electric Cooperative, Inc. to get assistance from the 470's funds for environmental compliance issues, or that the federal government amends OPA 90 to work in rural Alaska.

Dated this ____ day of April, 1997

ATTEST:

Secretary

Mayor/President

Vice-Mayor/President

Treasurer

Member

Member

4/17/97

Robert BANNON

AFRAID OF RETRIBUTION

← per written testimony
Air Quality -

Municipal JTS - DEC. permit

NO OVERSIGHT OF
AREA SUPERVISORS TO
UNDERLIEP IN OFFICE OR
SAME AREA

ATTITUDE

* LACK OF internal
COOPERATION WITH IN
DEPARTMENT

4/17/97

VIRGIL NORTON

McGATHAN WATER SYSTEM

* D.E.C. *
* HEARINGS *
* IMPACT
OF AREA

D.E.C. RELEASE
FOR CARBON FILTER

NEED more
INVESTIGATION
TO where CONTAMINATION
IS GENERATED

Look AT CONTAMINATED SITE
Division under 3rd PARTY
Supervision

EXPLAIN PROBLEM &
BEST SOLUTION

DOABLE STANDARDS

William Devon

733-2544

Background of House
Committee office

Dec
Dec
Dec

1984 called by Ron Larson

HEARING ON

1994 Petition

Emergency water test
3 locations

*

1984 Mr. Pinard

1992 -

NEED ATTITUDE CHANGE

NO RELEASE OR
FINALITY TO
problem.

Clear up
standards

Here are
people

What is your
recommendation
to improve cooperation
between DEC & public

4/17/97

D.E.C.

Bill S HOEFESTRA
PETRO MARINE

MISSION & MEASUREMENT

WORK TOGETHER TO SOLVE
PROBLEMS & GET SOLUTIONS

ALASKA STATE LEGISLATURE

News From The House Majority

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State Capitol
Ken Freeman
Juneau, AK 99801
Press Secretary
Actuality line: 1-800-478-6540
(907) 465-3804

MEETING NOTICE

House Oil and Gas Committee To Evaluate DEC Enforcement Standards

April 4, 1997

JUNEAU - The House Oil & Gas Committee will conduct a public hearing concerning enforcement standards of the Department of Environmental Conservation (D.E.C) on Thursday, April 17th, at 8:30am in room 124 of the state capitol building. The hearing will be teleconferenced (listen only) statewide to all sites wishing to be connected.

Written public testimony is being requested regarding the methods used by the D.E.C. for enforcement of standards. Citizens and businesses are encouraged to describe experiences they have had in their dealings with D.E.C. Written testimony will be the topic of discussion during the hearing. Written testimony may be submitted until the end of the working day on April 15th.

Representative Hodgins, Chair of the House Oil and Gas Committee, said the purpose of this hearing is to establish a user-friendly relationship between D.E.C., Alaska's citizens, and the business community.

Please mail or fax written testimony to:
Representative Mark Hodgins
State Capitol, Rm. 110
Juneau, Alaska 99801
907-465-2833 fax
907-465-2283 phone

If you would like the Legislative Information Office nearest you to be connected by teleconference to the April 17 meeting, call 907-465-2283.

The drafters of the Alaskan Constitution clearly intended that it will be the policy of the state to encourage responsible development through wise use of resources. In direct conflict with this constitutional mandate, the Department of Environmental Conservation randomly restricts development throughout Alaska by following a process that is unnecessarily complex and cumbersome -- hindering the public's ability to develop our resources and create jobs for Alaskans.

The Department should offer solutions and assistance, not obstruction and resistance that has elevated public frustration to an all time high. Something needs to be done to remedy the situation.

My mission as a legislator is to direct state government to become more responsive to the needs of the people of the State of Alaska. The DEC has earned a very poor reputation across Alaska by the method that they enforce the standards that we need to ensure a safe and clean environment. The DEC has become a unit of state government that has forgotten who they work for. They have been very oppressive and heavy handed in enforcement of standards. They have used different standards to bully different people, almost with the attitude that clean up of a certain problem was secondary, while the ability to show their authority was probably the primary motivation. DEC can be more user friendly without compromising their task. Because of their public relation image it was necessary to suggest a unique solution.

The idea to change the name of the Department of Environmental Conservation to the Department of Environmental Development was to send a message to state government that government should serve the needs of the people, not that the people serve the needs of state government.

HB-171 is not an attempt to relax environmental standards at the expense of the environment. By changing the name of the Department and their Declaration of Policy we will redirect their course to accomplish our goals of environmental protection and responsible development.

As always, the health and safety of our people and the protection of our natural environment will remain our primary goals.

This will be accomplished in the most professional and efficient manner possible to assist the public in their endeavor to develop a successful economy while providing for much needed protection

HB 171 will give the Department clear direction that their mission is, and always has been, to assist with development by ensuring that it is done in an environmentally sound and responsible manner so that Alaskans may continue to enjoy those things that make Alaska such a wonderful place to live.

Alaska faces the challenge of protecting its high quality environment while finding the best possible way to encourage and support new development. By creating a user-friendly department, we can protect our precious environment while encouraging responsible development in order to maintain a healthy statewide economy.

My message to the DEC is to become more user friendly to the public. I am not asking the DEC to lower any standards, but to simply understand that government works for the people. Government must respond to those needs without violating basic human courtesy. Everyone agrees that the policy of the Department of Environmental Conservation is to maintain a clean and safe environment. More can be accomplished along those lines if government departments would work with Alaskans towards those important goals.

04/17/97

LEGISLATIVE TELECONFERENCE NETWORK SYSTEM

LTN1150

08:30:08

PARTICIPANT LIST (ALL PARTICIPANTS)

BY:ANC

TCN:70607

SCHEDULED FOR:04/17/97 08:30 TO 10:00

FOR:ANC

PUBLIC HEARING

HOUSE SPECIAL COMMITTEE ON OIL & GAS

LOCATION:ANCHORAGE

DEC ENFORCEMEN

BILL

SCHOEPHOESTER

PETRO MARINE

TESTIFY

DEC ENFORCEMEN

BOB

BANNON

SURE-WAY INCINERTESTIFY

Bill Schoephoester - Petro Marine (Anchorage)
DALE LINDSEY

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04/17/97 LEGISLATIVE TELECONFERENCE NETWORK SYSTEM LTN1150

08:26:51 PARTICIPANT LIST (ALL PARTICIPANTS) BY:MAT

TCN:70607 SCHEDULED FOR:04/17/97 08:30 TO 10:00 FOR:MAT

PUBLIC HEARING HOUSE SPECIAL COMMITTEE ON OIL & GAS

LOCATION:MATSU

DEC ENFORCEMEN MR.

WILLIAM

DEVON

*Time constraint
9Am*

TESTIFY

04/17/97 LEGISLATIVE TELECONFERENCE NETWORK SYSTEM LTN1150

08:20:47 PARTICIPANT LIST (ALL PARTICIPANTS) BY:KEN

TCN:70607 SCHEDULED FOR:04/17/97 08:30 TO 10:00 FOR:KEN

PUBLIC HEARING HOUSE SPECIAL COMMITTEE ON OIL & GAS

LOCATION:KENAI LIO

DEC ENFORCEMEN MR.

JOHN

COOK

STERLING TESORO TESTIFY

We want the bond lifted so
that the homes be feasible in
the meantime /

TO: Rep. Hodgins

FROM: Cathy Wood
H. Records

Per your Request

HOUSE SPECIAL COMMITTEE ON OIL AND GAS
April 15, 1997

Number 2312

JIM JOHNSON, ONSHORE AREA MANAGER, PHILLIPS NORTH AMERICA PARTNERSHIP OPERATIONS GROUP, HOUSTON: I have a responsibility within my group for the properties which contain Phillips North Slope gas reserves, such as Prudhoe Bay and Point Thompson unit. Phillips Petroleum's interest and involvement with the North Slope's gas project would come about in several ways. First we're an interest owner in North Slope Gas, we have an interest in Prudhoe Bay units where along with our 1.88 percent interest in the oil rim, we have .26 percent interest in the gas cap. We do have a much larger interest, approximately 12 percent in the Point Thompson Unit. And as you may know Phillips is the majority owner and operator of the Kenai Alaska LNG Facilities. This is the first LNG project to export LNG into Asia and North America's first and only existing base load and LNG operation. The Kenai Alaska facilities were the first to achieve 27 years of reliable uninterrupted LNG deliveries into Asia and it brought significant benefits to the state, in forms of jobs and revenues. Phillips is supportive of the efforts to facilitate the North Slope LNG project. Consequently, Phillips would be interested in the value of any opportunities to participate in a trans-Alaska gas line project, as well as opportunities related to potential participation in the LNG liquefaction facility and shipping elements. Phillips has examined North Slope gas production and based on current information we believe that the potential exists for this be economic. Further refinements, decisions and actions will be needed on several items to bring about a final conclusion in this regard. This includes studies of North Slope gas deliverability and costs. The cost of the required pipeline and other facilities. The tax and regulatory structure and the marketing arrangements and prices for the LNG. With our interest in Point Thompson and our past experience in LNG we've been in a position to study a number of aspects of these with a good prospective. I'd like to comment further on what we feel are some key items here. In the Point Thompson Unit, Phillips has been actively participating along with the operator Exxon and other interest owners, in studies to better define the reserves producability and developments in areas of that field. Results on studies currently under way have been encouraging in indicating that potential reserves and production from this field may be better than previously indicated, although it is too early at this point to define specific numbers. Phillips believes that the Point Thompson gas condensate field could play a pivotal role in facilitating the North Slope LNG project. Point Thompson gas reserves could give the North Slope pipeline project considerable additional flexibility and viability. It could supply early gas

supplies needed to accelerate the potential start up date for the project to coincide with the earliest market opportunities. Point Thompson could be developed to supply significant gas volumes in plenty of time to be ready for the pipeline. This would allow you to have both early start up of the project to capture market opportunities, as well as allowing high recycling of Prudhoe Bay gas to continue for a longer time to benefit oil recovery there. Also, Point Thompson could augment Prudhoe Bay gas deliverability in the longer course of the project. Point Thompson along with any other gas producing fields in the North Slope could provide the synergy that should yield better economics for everyone. Finally, having had 27 years experience in marketing LNG into Asia, Phillips concurs that a market window for the North Slope LNG project could open as early as 2005. And that competition amongst supply projects for these markets is and will be fierce. This being the case Phillips supports the House Oil and Gas Committee efforts to facilitate timely definition of the project structure and ... (tape change)

SIDE B
Number 001

REPRESENTATIVE OGAN: Do you concur, I might put you on the spot here a little bit, but do you concur with the view that the market will continue to open in 2010, 2015 or do you feel that the competition of projects that are already competing and maybe quite a bit farther ahead in development will fill that market and put our project at a disadvantage?

Number 031

JIM JOHNSON: We feel that there will be some continuing opening of the market beyond 2005. We feel that a good opportunity exists for projects that will be ready by 2005 and that if you are able to meet that particular window you would be in the best situation.

Number 046

REPRESENTATIVE OGAN: So, if I may Mr. Chairman, there is somewhat of a diminishing return after 2005? Especially for I mean we are talking about a really large project compared to a lot of the other projects that are going to be competing is that correct?

Number 055

MR. JOHNSON: From what we see right now, there would be some diminishment in returns after 2005.

Number 065

REPRESENTATIVE OGAN: Enough to knock us out of the market?

Number 71

MR. JOHNSON: Would not be prepared to say that. It would not necessarily knock you out of the market.

REPRESENTATIVE OGAN: Okay thank you very much.

Number 80

REPRESENTATIVE MARK HODGINS: Thank you Mr. Johnson. Any other questions of Mr. Johnson from Phillips. I have one and we have heard a presentation earlier of that the Point Thompson gas unit has a high pressure gas situation that might preclude it from becoming a part of this project. Possibly you could comment on that or what you see would be a time line that maybe the technical aspect of a high pressure gas situation in Point Thompson might be solved.

Number 102

MR. JOHNSON: We see the high pressure in Point Thompson as something which can be addressed technically. We do not see that it prevents any hurdle in the development of that field, where it would be producible prior to a pipeline being available in 2005. The high pressure means that you would have additional consideration in terms of the facilities and equipment. The high pressure of course, yields higher deliverability and that is good in many aspects for the project. But these are technical things which we certainly feel can be addressed and does not cause any real problem for the Point Thompson field development.

AGENDA

GOOD MORNING

TODAYS MEETING OF THE HOUSE SPECIAL COMMITTEE ON OIL AND GAS. TODAY IS APRIL 17, 1997. THIS MEETING IS CALLED TO ORDER AT 8:30AM

FOR THE RECORD THE OIL & GAS COMMITTEE MEMBERS PRESENT ARE

- ROLL CALL -

ON TELECONFERENCE TODAY WE ARE CONNECTED WITH THE LIO'S IN ANCHORAGE, FAIRBANKS, AND KENAI. WE ALSO ARE CONNECTED ON OFF-NET LINES WITH WASILLA AND NIKISKI.

ON TODAYS CALENDAR WE WILL HEAR TESTIMONY FROM INVITED MEMBERS OF THE PUBLIC TO TESTIFY ON THE ENFORCEMENT STANDARDS OF THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.

- ROBERT BANNON (from Anchorage)

- ~~DEE RAPPE (from Nikiski)~~ VIRGIL NORTON (HERE) MCGAHAN PROPERTY ✓

- ✓ ① • BILL DEVON (from Wasilla) ✓

- JOHN COOK (from Kenai)

IS THERE DISCUSSION FROM MEMBERS OF THE COMMITTEE?

HOLD THIS MEETING OVER UNTIL A LATER DATE WHEN WE WILL HEAR BACK FROM THE DEPARTMENT.

PERHAPS SOME OF THE AREA MANAGERS, THAT HAVE BEEN MENTIONED IN THESE CASES WOULD BE AVAILABLE TO ANSWER SOME QUESTIONS AT THAT TIME.

ADJORN

Bill Cameron
Irene Olson

20th Alaska State Legislature

First Session, 1997

26th 26th



BOB BANNON

ATTITUDE!

PROBLEM

- INCINERATION - MOSTLY MEDICAL WASTE
- ORIGINALLY HAD D.E.C. PERMIT THEN WENT TO MUNI OF ANCHORAGE PERMIT (STRICTER THAN D.E.C.)
MUNI PERMIT TOOK 1/10th TIME OF D.E.C.

BILL SHORFESTER - PETRO MARINE

MESSAGE

— MISSION & MEASURE (BETTER DEFINITIONS)

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20th Alaska State Legislature

First Session, 1997



Virgil Norton
for Merrill McGahan

ATTITUDE CHANGE!
NO ACCOUNTABILITY!

- STATE LAB USED
- HAS THERE BEEN REG. CHANGES REGARDING TEE TESTING SINCE HART/CROWSEY REPORT
- SIGNIFICANT FINANCIAL IMPACT TO WATER UTILITY
- HAS D.E.C. RELEASED
- NEED TO RELY ON FACTS & SCIENCE
- EXCESSIVE TESTING FOR SMALL PROJECTS
- SPILL OF 1 GALLON VS 1000 GALLON - COULD COST ONE PERSON \$100,000 AND THE NEXT \$1,000,000

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20th Alaska State Legislature

First Session, 1997



• BOB GILFILLAN - 277-2071

• Bill SHAFERSON 273-8222

• DIFF. STANDARDS OF ENFORCEMENT
1992 - SEWER SYSTEM

• Bill DEVON FILE (CACHA CREEK CHEURON)

— LIND TRAP

— CLEAN UP OF DEBRY

— PRESS RELEASE FROM D.E.C.

— NEED ATTITUDE CHANGE

— FEARS RETRIBUTION

— STILL HAVEN'T HAD A RELEASE FROM D.E.C.

PAUL PENNARD - WASILLA

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MEMO AL EWING

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- 262-9028

- Bob GILFILLIAN
277-2021

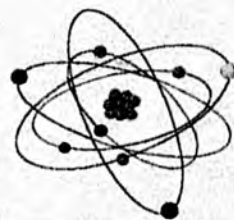
- Bob BANNON
- 277-6505 WK
- 230-1359 CEL.
- 333-3029

- B&H DEVON - 733-2544

Kennard
Environmental
Consultants

PO Box 352 Palmer, AK 99645

(907) 376-4146



April 10, 1997

Mr. Virgil Norton
Project Manager
River Terrace RV Park
44761 Sterling Highway
PO Box 322
Soldotna, AK 99669

Dear Mr. Norton ,

The preliminary data concerning the delineation of River Terrace RV Park for tetrachloroethylene has been completed. I am pleased to inform you that the contamination is not as extensive as was thought. Ground water was not encountered at the site, this documentation should dictate that the ADEC set a cleanup level to some where in the 10 ppm to 15 ppm area depending on TCLP testing. If the ADEC will set a cleanup level to meet these responsible and reasonable levels, you will be able to finish your cleanup this season with plenty of time to spare.

The minute levels encountered on the banks of the Kenai River do not correspond to the contaminated areas that are located upgrate. No correlation can be drawn to link these low levels to the other contaminated areas because of their location and elevation. It is therefore my professional opinion that these low-level contaminated soils were relocated to this area at some time in the past. The delineation maps show that the tetrachloroethylene has not migrated to the Kenia River but has gone straight down as was expected due to its density.

Please be informed, should the ADEC for some reason, set a cleanup level that reflects ground water contamination (even though our field documentation shows the site to have no ground water) your cleanup could be severally handicapped with unnecessary cost and effort.

I have informed the ADEC that no ground water is present at your site and have requested that ground water monitoring wells be deleted from the site assessment work. Should the ADEC request these wells, four wells can be drilled around the contaminated area. However, since ground water was not encountered it will be unclear to what depth to locate the well screen in order to collect water that is not present. It should be noted

again that 45 boring were drilled with no ground water present, some to depths of 10 feet below the Kenai River.

I will keep you informed to the requests of the ADEC. Please feel free to contact me at anytime concerning these issues.

Best of luck,

A handwritten signature in black ink, appearing to read 'T. Kennard', with a large, stylized flourish at the end.

Tony A. Kennard
Kennard Environmental Consultants
Environmental Engineer

ANALYTICAL RESULTS

SAMPLE #	DATE	DEPTH	SOIL TYPE	COC#	Field PID	8100	8015/8020	418.1	8010
G5-001-1309	2-25-97	18"	Fine Grain w/ Pebble	022697-2125	1.8 ppm	65.0	1.39 / U	135	1.16
G5-002-1328	2-25-97	6'7"	Blue Clay (Interface)	022697-2125	0.0 ppm	U	U	33.4	U
G6-003-1404	2-26-97	18"	Fine Grain w/ Pebble	022697-2125	1.3 ppm	27.6	1.41 / U	43.2	0.267
G6-004-1421	2-26-97	5'4"	Fine Sand	022697-2125	3.8 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.054
G6-005-1431	2-26-97	11'2"	Fine Sand	022697-2125	8.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.669
G6-006-1448	2-26-97	13'1"	Blue Clay (Interface)	022697-2125	0.0 ppm	13	1.12 / U	27.3	0.0406
G4-007-1523	2-26-97	18"	Fine Grain w/ Pebble	022697-2125	1.5 ppm	25.4	1.41 / U	50.5	0.14
G4-008-1544	2-26-97	5'3"	Fine Sand w/ Pebble	022697-2125	1.1 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.034
G4-009-1558	2-26-97	10'6"	Blue Clay (Interface)	022697-2125	0.0 ppm	U	1.28 / U	19.1	0.054
G3-010-1617	2-26-97	18"	Fine Grain w/ Pebble	022697-2125	0.3 ppm	U	U	29.7	U
QC-001-1644	2-26-97	6'2"	Fine Grain	022697-2144	0.4 ppm	U	U	14.0	U
G3-011-1646	2-26-97	6'2"	Fine Grain	022697-2144	0.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED
G3-012-1717	2-26-97	10'11"	Blue Clay (Interface)	022697-2144	0.0 ppm	U	1.17 / U	10.5	U
G1-013-1015	2-27-97	22"	Hvy Grain w/ Lrg Pebble	022797-1949	2.3 ppm	U	1.69 / U	6.68	U
G1-014-1050	2-27-97	5'8"	Fine Grain w/ Pebble	022797-1949	0.2 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED
G1-015-1127	2-27-97	10'10"	Fine Grain w/ Pebble	022797-1949	0.3 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED
G1-016-1144	2-27-97	11'6"	Blue Clay (Interface)	022797-1949	0.1 ppm	U	1.12 / U	8.27	U
F1-017-1310	2-27-97	20"	Fine Grain w/ Pebble	022797-1949	0.5 ppm	U	1.22 / U	15.9	U
F1-018-1400	2-27-97	7'10"	Fine Grain w/ Pebble	022797-1949	1.1 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED
F1-019-1413	2-27-97	8'7"	Blue Clay (Interface)	022797-1949	0.6 ppm	U	1.11 / U	15.8	0.294
G2A-020-1504	2-27-97	2'3"	Med Grain w/ Pebble	022797-1949	0.7 ppm	15.4	U	28.3	U
QC-002-1507	2-27-97	2'3"	Med Grain w/ Pebble	022797-1949	0.7 ppm	U	1.11 / U	12.9	0.023
G2A-021-1523	2-27-97	5'7"	Med Grain w/ Pebble	022797-1949	0.6 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED
G2A-022-1543	2-27-97	10'3"	Blue Clay (Interface)	022797-2013	0.1 ppm	U	U	10.2	0.0676
F3A-023-1637	2-27-97	2'1"	Fine Grain w/ Pebble	022797-2013	0.3 ppm	U	1.12 / U	9.76	0.047
F3A-024-1659	2-27-97	5'9"	Fine Grain w/ Pebble	022797-2013	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.035
F3A-025-1721	2-27-97	10'9"	Blue Clay (Interface)	022797-2013	0.2 ppm	U	U	9.22	U
F4-026-0824	2-28-97	2'2"	Med Grain w/ Pebble	030197-1640	1.8 ppm	6.49	1.08 / U	25.3	0.064
F4-027-0841	2-28-97	5'9"	Fine Grain w/ Pebble	030197-1640	1.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.058
F4-028-0906	2-28-97	6'8"	Blue Clay (Interface)	030197-1640	1.6 ppm	5.92	U	24.9	0.161
F5A-029-0957	2-28-97	2'3"	Fine Grain w/ Pebble	030197-1640	11.3 ppm	39.7	2.97 / .079	222	2.62
F5A-030-1001	2-28-97	5'9"	Fine Grain w/ Sand	030197-1640	0.8 ppm	107	1.24 / U	247	0.111

SAMPLE #	DATE	DEPTH	SOIL TYPE	COC#	Field PID	8100	8015/8020	418.1	8010
QC-003-1004	2-28-97	5'9"	Fine Grain w/ Sand	030197-1640	0.8 ppm	29.5	1.31 / U	71.6	0.042
F5A-031-1035	2-28-97	10'9"	Fine Grain w/ Pebble	030197-1640	0.0 ppm	U	NOT ANALYZED	NOT ANALYZED	0.058
F5A-032-1056	2-28-97	15'	Blue Clay (Interface)	030197-1640	1.6 ppm	6.28	1.82 / U	5.82	1.07
F5A-033-1207	2-28-97	20'9"	Blue Clay	030197-1640	3.0 ppm	?	?	?	?
F5A-034-1302	2-28-97	22'3"	Blue Clay	030197-1640	1.5 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
F6A-035-1436	2-28-97	2'1"	Hvy Grain w/ Pebble	030197-1645	2.7 ppm	17.0	U	10.9	U
F6A-036-1445	2-28-97	5'9"	Sand	030197-1645	5.9 ppm	?	?	?	?
F6A-037-1605	2-28-97	13'	Blue Clay (Interface)	030197-1645	0.0 ppm	171	1.13 / U	271	0.0207
C6-038-1659	2-28-97	2'3"	Fine Grain w/ Pebble	030197-1645	56 ppm	17.8	5.79 / U	48.0	1.22
C6-039-1706	2-28-97	5'7"	Fine Grain	030197-1645	7.8 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.324
C6-040-1734	2-28-97	10'6"	Fine Grain	030197-1645	10.9 ppm	U	1.0 / U	21.6	0.122
QC-004-1734	2-28-97	10'6"	Fine Grain	030197-1645	10.9 ppm	U	1.14 / U	8.68	0.181
C6-041-1817	2-28-97	16'	Blue Clay (Interface)	030197-1645	0.0 ppm	4.75	3.29 / U	U	2.00
D6A-042-1858	2-28-97	2'3"	Sand w/ Pebble	030197-1645	57.3 ppm	13.1	U	21.4	0.0563
D6A-043-0849	3-1-97	5'9"	Fine Grain	030197-2100	10 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.305
D6A-044-0837	3-1-97	10'8"	Fine Grain w/ Pebble	030197-2100	4.5 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.128
D6A-045-0848	3-1-97	15'9"	Fine Grain w/ Pebble	030197-2100	8.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.192
D6A-046-0908	3-1-97	16'11"	Blue Clay (Interface)	030197-2100	0.0 ppm	5.28	1.80 / U	10.2	0.530
B6-047-1013	3-1-97	1'11"	Fine Grain w/ Pebble	030197-2100	Void	U	1.67 / U	18.6	0.639
B6-048-1024	3-1-97	5'9"	Fine Grain w/ Sand	030197-2100	6.5 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.294
B6-049-1039	3-1-97	10'9"	Fine Grain	030197-2100	69.3 ppm	6.76	1.50 / U	18.1	1.24
B6-050-1131	3-1-97	17'3"	Fine Grain w/ Pebble	030197-2100	150 ppm	10.0	13.9 / U	54.6	28.6
QC-005-1131	3-1-97	17'3"	Fine Grain w/ Pebble	030197-2100	150 ppm	7.5	17.5 / U	54.3	37.5
B6-051-1216	3-1-97	22'1"	Fine Grain w/ Pebble	030197-2100	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.632
A6-052-1432	3-1-97	2'	Fine Grain w/ Pebble	030197-2140	29.4 ppm	9.19	1.66	24.9	0.663
A6-053-1504	3-1-97	5'9"	Fine Grain w/ Pebble	030197-2100	60.8 ppm	U	2.10 / U	8.37	1.36
A6-054-1704	3-1-97	10'9"	Fine Grain w/ Pebble	030197-2100	3214 ppm	8.67	30.7 / 0.14	36.9	70.0
A6-055-1731	3-1-97	15'9"	Fine Grain w/ Pebble	030197-2100	42.3 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	2.56
A6-056-1754	3-1-97	20'9"	Fine Grain w/ Pebble	030197-2100	0.0 ppm	6.91	1.68 / U	11.6	0.382
A7-057-0826	3-2-97	2'3"	Sand w/ Pebble	030397-1800	45.1 ppm	6.61	1.98 / U	65.2	3.73
A7-058-0907	3-2-97	6'11"	Fine Grain w/ Pebble	030397-1800	77.3 ppm	19.3	10.5 / .09	34.9	4.72
A7-059-0910	3-2-97	10'10"	Fine Grain w/ Pebble	030397-1800	230 ppm	7.28	5.23 / .09	20.8	0.101*
A7-060-0933	3-2-97	15'9"	Fine Grain w/ Pebble	030397-1800	8.0 ppm	U	1.25 / U	U	1.58
QC-006-0933	3-2-97	15'9"	Fine Grain w/ Pebble	030397-1800	8.0 ppm	U	1.68 / .058	U	2.37
A7-061-0954	3-2-97	20'9"	Fine Grain w/ Pebble	030397-1800	0.0 ppm	U	1.24 / .066	U	0.411

SAMPLE #	DATE	DEPTH	SOIL TYPE	COC#	Field PID	8100	8015/8020	418.1	8010
A7-062-1039	3-2-97	25'9"	Blue Clay (Interface ↑)	030397-1800	0.0 ppm	17.0	U / .0618	55.7	U
A8-063-1127	3-2-97	2'3"	Med Grain w/ Sand	030397-1800	456 ppm	5.55	9.24 / U	8.47	19.2
A8-064-1137	3-2-97	5'8"	Med Grain w/ Pebble	030397-1800	817 ppm	16.8	3.76 / U	126	8.83
A8-065-1200	3-2-97	10'9"	Hvy Grain	030397-1800	1220 ppm	26.4	1.68 / U	36.1	0.177
A8-066-1214	3-2-97	15'3"	Blue Clay (Interface)	030397-1827	11.8 ppm	15.2	1.32 / U	48.9	1.03
A8-067-1347	3-2-97	20'9"	Fine Grain w/ Pebble	030397-1827	0.0 ppm	U	U	U	0.185
A9-068-1454	3-2-97	2'3"	Fine Grain w/ Sand	030397-1827	0.0 ppm	68.8	3.52 / U	326	2.25
A9-069-1503	3-2-97	5'9"	Sand w/ Pebble	030397-1827	0.0 ppm	5.57	1.05 / U	8.59	0.559
A9-070-1526	3-2-97	10'9"	Sand	030397-1827	0.0 ppm	6.08	U	9.09	U
QC-007-1526	3-2-97	10'9"	Sand	030397-1827	0.0 ppm	U	U	7.15	U
A9-071-1543	3-2-97	15'2"	Coarse Sand	030397-1827	0.0 ppm	29.6	1.08 / U	8.91	0.633
A9-072-1611	3-2-97	20'6"	Blue Clay (Interface)	030397-1827	0.0 ppm	U	1.03 / U	U	0.591
A9-073-1636	3-2-97	24'6"	Blue Clay	030397-1827	0.0 ppm	U	1.29 / U	U	0.083
B7-074-1022	3-3-97	2'2"	Fine Grain w/ Pebble	030397-1841	22.2 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.767
B7-075-1033	3-3-97	5'6"	Fine Grain w/ Pebble	030397-1841	142 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.285
B7-076-1058	3-3-97	10'9"	Fine Grain w/ Sand	030397-1841	66.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.430
B7-077-1130	3-3-97	16'6"	Fine Grain w/ Pebble	030397-1841	28.3 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	3.27
B7-078-1154	3-3-97	20'2"	Fine Grain w/ Pebble	030397-1841	952 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	14.3
B7-079-1317	3-3-97	25'4"	Blue Clay (Interface ↑)	030397-1841	1906 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	48.2
B7-080-1348	3-3-97	30'9"	Fine Grain w/ Blue Clay	030397-1841	171 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	96.6
QC-008-1348	3-3-97	30'9"	Fine Grain w/ Blue Clay	030397-1841	171 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	11.3
B7-081-1429	3-3-97	36'4"	Blue Clay	030397-1841	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.91
B8-082-0824	3-4-97	2'3"	Fine Grain w/ Pebble	030597-2115	173 ppm	30.4	U	50.4	10.7
B8-083-0848	3-4-97	6'11"	Med Grain w/ Pebble	030597-2115	328 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	7.87
B8-084-0938	3-4-97	15'4"	Fine Sand	030597-2115	197 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.317
B8-085-0957	3-4-97	21'	Blue Clay (Interface ↑)	030597-2115	0.0 ppm	10.3	1.27 / U	19.0	U
B9-086-1106	3-4-97	2'3"	Fine Grain	030597-2115	20.1 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	1.18
B9-087-1114	3-4-97	5'6"	Med Sand w/ Pebble	030597-2115	28.6 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	2.18
B9-088-1132	3-4-97	10'6"	Med Sand w/ Pebble	030597-2115	11.3 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	4.42
B9-089-1142	3-4-97	15'6"	Fine Sand	030597-2115	25.8 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
B9-090-1157	3-4-97	20'4"	Blue Clay (Interface)	030597-2115	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.725
QC-009-1157	3-4-97	20'4"	Blue Clay (Interface)	030597-2115	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.432
C7-091-1354	3-4-97	2'11"	Fine Grain w/ Pebble	030597-2115	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.140
C7-092-1403	3-4-97	5'9"	Med Grain w/ Pebble	030597-2115	4.2 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U

SAMPLE #	DATE	DEPTH	SOIL TYPE	COC#	Field PID	8100	8015/8020	418.1	8010
C7-093-1413	3-4-97	10'9"	Med Grain w/ Pebble	030597-2115	32.1 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
C7-094-1434	3-4-97	15'9"	Blue Clay (Interface)	030597-2115	39.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	1.86
C7-095-1458	3-4-97	20'9"	Blue Clay	030597-2115	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
C8-096-1607	3-4-97	3'	Med Grain w/ Pebble	030597-2115	21.1 ppm	19.6	U	42.8	0.772
C8-097-1617	3-4-97	5'6"	Sand w/ Pebble	030597-2115	18.6 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.681
C8-098-1655	3-4-97	13'6"	Blue Clay (Interface)	030597-2115	15.9 ppm	19.1	U	37.1	0.042
C8-099-1701	3-4-97	15'6"	Blue Clay	030597-2115	8.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.0453
C8-100-1719	3-4-97	20'6"	Blue Clay	030597-2115	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
QC-010-1719	3-4-97	20'6"	Blue Clay	030597-2115	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.042
C9-101-0831	3-5-97	2'3"	Fine Grain w/ Pebble	030597-2115	20.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.852
C9-102-1840	3-5-97	5'4"	Fine Sand w/ Pebble	030597-2115	12.9 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	1.47
C9-103-0907	3-5-97	10'9"	Fine Sand w/ Pebble	030597-2115	35.6 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.211
C9-104-0924	3-5-97	15'4"	Fine Sand w/ Pebble	030597-2115	3.8 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.171
C9-105-0942	3-5-97	20'6"	Blue Clay (Interface ↑)	030597-2115	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.0895
D10A-106-1057	3-5-97	2'3"	Fine Sand w/ Brw Clay	030597-2115	0.3 ppm	U	U	35.7	U
D10A-107-1117	3-5-97	6'3"	Small Pebbles	030597-2115	0.0 ppm	U	U	20.5	U
D10A-108-1138	3-5-97	10'6"	Blue Clay (Interface ↑)	030597-2115	0.0 ppm	U	U	40.4	U
C10A-109-1317	3-5-97	2'3"	Fine Sand w/ Brw Clay	030597-2115	4.9 ppm	U	U	23.8	0.0598
C10A-110-1331	3-5-97	5'6"	Fine Sand w/ Pebble	030597-2115	4.5 ppm	4.8	1.21 / .094	20.4	0.106
QC-011-1343	3-5-97	10'9"	Blue Clay (Interface ↑)	030597-2115	0.5 ppm	U	U	25.9	U
C10A-111-1343	3-5-97	10'9"	Blue Clay (Interface ↑)	030597-2115	0.5 ppm	U	U	20.5	U
B10A-112-1429	3-5-97	2'3"	Fine Sand w/ Brw Clay	030597-2115	9.7 ppm	U	U	20.0	0.181
B10A-113-1510	3-5-97	10'9"	Blue Clay (Interface ↑)	030597-2115	0.0 ppm	U	U	26.5	0.066
B10A-114-1558	3-5-97	5'6"	Med Pebble	030597-2115	59.8 ppm	U	1.01 / U	16.9	0.201
B10A-115-1617	3-5-97	9'1"	Blue Clay (Interface)	030597-2115	13.0 ppm	U	U	20.2	0.074
A10A-116-1642	The information for this sample is listed below and tabulated with corresponding borings.								
AA7-117-0842	3-6-97	2'3"	Med Grain w/ Pebble	030897-1501	10.6 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	7.49
AA7-118-0855	3-6-97	5'4"	Fine Grain w/ Pebble	030897-1501	12.5 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
AA7-119-0918	3-6-97	10'6"	Fine Grain	030897-1501	10.9 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.234
AA7-120-0959	3-6-97	15'6"	Blue Clay (Interface ↑)	030897-1501	1.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
AA7-121-1020	3-6-97	20'9"	Blue Clay	030897-1501	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
QC-012-1020	3-6-97	20'9"	Blue Clay	030897-1501	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
AA6-122-1142	3-6-97	2'3"	Fine Grain w/ Pebble	030897-1501	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	.0300
AA6-123-1202	3-6-97	5'6"	Fine Grain w/ Brw Clay	030897-1501	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.199

SAMPLE #	DATE	DEPTH	SOIL TYPE	COC#	Field PID	8100	8015/8020	418.1	8010
AA6-124-1227	3-6-97	10'6"	Fine Grain w/ Brw Clay	030897-1501	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
AA8-125-1439	3-6-97	2'3"	Fine Grain w/ Sand	030897-1501	815 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	21.0
AA8-126-1444	3-6-97	5'9"	Fine Sand w/ Pebble	030897-1531	147 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	21.4
AA8-127-1519	3-6-97	16'	Fine Grain w/ Pebble	030897-1531	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	2.72
AA8-128-1533	3-6-97	20'9"	Blue Clay (Interface ↑)	030897-1531	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.0323
A10A-116-1642	3-5-97	2'	Fine Sand	030597-2115	13.1 ppm	U	1.01 / U	13.8	0.0423
A10A-129-0843	3-7-97	5'9"	Med Grain w/ Pebble	030897-1531	20.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.147
A10A-130-0902	3-7-97	10'9"	Blue Clay (Interface ↑)	030897-1531	4.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
A10A-131-1001	3-7-97	16'	Blue Clay w/ Pebbles	030897-1531	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
AA10A-132-1044	3-7-97	2'3"	Fine Sand	030897-1531	6.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.0508
AA10A-133-1056	3-7-97	5'6"	Med Grain w/ Pebble	030897-1531	9.5 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.256
AA10A-134-1125	3-7-97	10'9"	Blue Clay (Interface ↑)	030897-1531	1.1 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
QC-013-1200	3-7-97	15'9"	Blue Clay	030897-1531	0.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
AA10A-135-1200	3-7-97	15'9"	Blue Clay	030897-1540	0.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
AA10A-136-1326	3-7-97	20'6"	Blue Clay	030897-1540	3.6 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
AA10A-137-1410	3-7-97	25'9"	Blue Clay	030897-1540	4.5 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
BB10A-138-1555	3-7-97	2'3"	Fine Sand	030897-1540	4.3 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	.0541
BB10A-139-1604	3-7-97	5'9"	Fine Grain w/ Pebble	030897-1540	3.5 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	.0716
BB10A-140-1624	3-7-97	10'9"	Blue Clay (Interface ↑)	030897-1540	2.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
QC-014-1624	3-7-97	10'9"	Blue Clay (Interface ↑)	030897-1540	2.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
B1-141-0906	3-8-97	2'2"	Med Grain w/ Pebble	030897-1540	2.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.187
B1-142-0930	3-8-97	5'6"	Blue Clay (Interface ↑)	030897-1540	23.9 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	2.24
B1-143-1010	3-8-97	10'9"	Blue Clay	030897-1540	5.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.551
B1-144-1103	3-8-97	15'9"	Blue Clay	030897-1546	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.194
B2-145-1132	3-8-97	2'	Fine Sand	030897-1546	0.0 ppm	38.9	U	44.0	0.0702
B2-146-0837	3-9-97	5'6"	Blue Clay (Interface ↑)	97.1252	262 ppm	6.35	1.19 / U	27.6	0.115
B2-147-0908	3-9-97	10'6"	Blue Clay	97.1252	2.5 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.0953
A1-148-0947	3-9-97	2'3"	Fine Grain w/ Pebble	97.1252	15.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.124
A1-149-1003	3-9-97	5'9"	Med Grain w/ Pebble	97.1252	230 ppm	745	NOT ANALYZED	NOT ANALYZED	177
A1 150-1023	3-9-97	10'9"	Blue Clay (Interface ↑)	97.1252	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.0636
QC-015-1023	3-9-97	10'9"	Blue Clay (Interface ↑)	97.1252	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.101
A2-151-1114	3-9-97	1'10"	Med Grain w/ Pebble	97.1252	9.5 ppm	5950	14.4 / 0.1	14600	3.05
A2-152-1209	3-9-97	7'	Blue Clay (Interface ↑)	97.1252	59.4 ppm	14.1	1.49 / U	23.6	0.0876
A2-153-1236	3-9-97	11'2"	Blue Clay	97.1252	1.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	.0284

SAMPLE #	DATE	DEPTH	SOIL TYPE	COC#	Field PID	8100	8015/8020	418.1	8010
A3-154-1408	3-9-97	2'3"	Med Grain w/ Pebble	97.1252	1.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.126
A3-155-1435	3-9-97	5'8"	Blue Clay (Interface ↑)	97.1252	12.9 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	2.08
A3-156-1508	3-9-97	10'8"	Blue Clay	97.1252	6.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.140
A4-157-1548	3-9-97	2'3"	Coarse Sand w/ Pebble	97.1252	3.2 ppm	U	1.98 / U	U	U
A4-158-1601	3-9-97	5'9"	Blue Clay (Interface ↑)	97.1252	6.3 ppm	5.95	1.29 / U	11.3	1.80
A5-159-0843	3-11-97	2'3"	Fine Grain w/ Pebble	97.1252	8.1 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.298
A5-160-0903	3-11-97	5'9"	Blue Clay (Interface)	97.1252	1.9 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	1.75
QC-016-0903	3-11-97	5'9"	Blue Clay (Interface)	97.1252	1.9 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	1.85
A5-161-0937	3-11-97	10'9"	Blue Clay	97.1252	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.0781
B3-162-1023	3-11-97	2'9"	Fine Grain w/ Pebble	97.1252	503 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	114
B3-163-1030	3-11-97	5'9"	Blue Clay (Interface ↑)	97.1252	114 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	16.1
B3-164-1051	3-11-97	10'9"	Blue Clay	97.1253	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.244
B4-165-1134	3-11-97	2'3"	Fine Grain w/ Pebble	97.1253	51.4 ppm	U	1.39 / U	9.10	1.55
B4-166-1301	3-11-97	6'6"	Blue Clay (Interface ↑)	97.1253	0.0 ppm	5.07	1.02 / U	11.1	0.114
B5-167-1340	3-11-97	2'3"	Fine Grain w/ Pebble	97.1253	2369 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	4700
B5-168-1456	3-11-97	5'9"	Med Grain w/ Pebble	97.1253	4657 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	182
B5-169-1546	3-11-97	12'2"	Blue Clay (Interface ↑)	97.1253	629 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	40.1
B5-170-1630	3-11-97	15'6"	Blue Clay	97.1253	543 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	32.9
QC-017-1721	3-11-97	20'10"	Blue Clay	97.1253	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.897
B5-171-1721	3-11-97	20'10"	Blue Clay	97.1253	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.586
C5-172-0836	3-12-97	2'	Fine Grain w/ Pebble	031397-1013	44.9 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.156
C5-173-0855	3-12-97	5'9"	Brw/ Blue Clay Mix	031397-1013	666 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.665
C5-174-0919	3-12-97	10'9"	Blue Clay (Interface ↑)	031397-1013	72.9 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	1.94
C5-175-1003	3-12-97	15'10"	Blue Clay	031397-1013	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.0346
C4-176-1057	3-12-97	2'3"	Fine Grain w/ Pebble	031397-1013	99.6 ppm	U	1.09 / U	8.57	0.658
C4-177-1205	3-12-97	5'9"	Blue Clay (Interface ↑)	031397-1013	225 ppm	6.4	4.4 / U	14.0	11.8
C4-178-1231	3-12-97	10'11"	Blue Clay	031397-1013	5.6 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	1.79
C4-179-1358	3-12-97	15'11"	Blue Clay	031397-1013	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.045
C3-180-1445	3-12-97	2'6"	Fine Grain w/ Pebble	031397-1013	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.041
QC-018-1445	3-12-97	2'6"	Fine Grain w/ Pebble	031397-1013	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.028
C3-181-1526	3-12-97	10'9"	Blue Clay (Interface ↑)	031397-1015	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
D4-182-1610	3-12-97	2'3"	Med Grain w/ Pebble	031397-1015	43.7 ppm	4.53	U	14.2	1.17
D4-183-1631	3-12-97	5'9"	Fine Grain w/ Pebble	031397-1015	113 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	5.50
D4-184-1712	3-12-97	10'9"	Blue Clay (Interface ↑)	031397-1015	0.0 ppm	7.98	1.20 / U	8.73	0.413

SAMPLE #	DATE	DEPTH	SOIL TYPE	COC#	Field PID	8100	8015/8020	418.1	8010
D5A-185-0833	3-13-97	2'3"	Fine Grain w/ Pebble	031397-1739	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.155
D5A-186-0849	3-13-97	6'	Blue Clay (Interface ↑)	031397-1739	13.2 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.504
D5A-187-1026	3-13-97	10'10"	Blue Clay	031397-1739	20.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.545
D5A-188-1131	3-13-97	20'6"	Blue Clay	031397-1739	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
C1-189-1305	3-13-97	2'3"	Med Grain w/ Pebble	031397-1739	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.059
C1-190-1319	3-13-97	5'6"	Blue Clay (Interface)	031397-1739	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.972
QC-019-1319	3-13-97	5'6"	Blue Clay (Interface)	031397-1739	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.289
C1-191-1336	3-13-97	10'9"	Blue Clay	031397-1739	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
D1-192-1433	3-13-97	2'3"	Med Grain w/ Pebble	031397-1739	3.5 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.371
D1-193-1450	3-13-97	5'4"	Fine Grain w/ Pebble	031397-1739	0.9 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.084
D1-194-1510	3-13-97	10'	Blue Clay (Interface ↑)	031397-1740	5.2 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
D1-195-1541	3-13-97	15'9"	Blue Clay	031397-1740	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
E1-196-1645	3-13-97	18"	Med Sand	031397-1740	5.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.217
E1-197-1658	3-13-97	5'9"	Brw Clay (Interface)	031397-1740	7.8 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.143
E1-198-1720	3-13-97	10'	Blue Clay	031397-1740	4.4 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.153
C2-199-0935	3-14-97	2'3"	Med Grain w/ Pebble	031497-1648	0.0 ppm	18.3	142 / U	50.8	0.086
C2-200-0954	3-14-97	5'9"	Blue Clay (Interface)	031497-1648	0.0 ppm	U	U	9.65	0.264
QC-020-0954	3-14-97	5'9"	Blue Clay (Interface)	031497-1648	0.0 ppm	U	1.19 / U	8.41	0.208
C2-201-1015	3-14-97	10'9"	Blue Clay	031497-1648	2.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
C2-202-1053	3-14-97	15'9"	Blue Clay	031497-1648	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
D3-203-1155	3-14-97	2'3"	Med Grain w/ Pebble	031497-1648	54.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	1.12
D3-204-1210	3-14-97	5'9"	Blue Clay (Interface ↑)	031497-1648	18.7 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	1.25
D3-205-1235	3-14-97	10'9"	Blue Clay	031497-1648	0.3 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
E3-206-1426	3-14-97	2'3"	Coarse Grain w/ Pebble	031497-1648	24.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.541
E3-207-1437	3-14-97	5'10"	Blue Clay (Interface)	031497-1648	71.3 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	2.37
E3-208-1457	3-14-97	10'9"	Blue Clay	031497-1649	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	U
E4-209-1548	3-14-97	2'3"	Coarse Grain w/ Pebble	031497-1649	15.8 ppm	U	U	8.32	0.647
E4-210-1600	3-14-97	5'9"	Brw Clay (Interface ↑)	031497-1649	60.9 ppm	U	1.79 / U	13.7	1.19
QC-021-1600	3-14-97	5'9"	Brw Clay (Interface ↑)	031497-1649	60.9 ppm	U	3.32 / U	12.2	1.42
E4-211-1620	3-14-97	10'9"	Blue Clay	031497-1649	0.0 ppm	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	0.296

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● BB10A ● AA10A ● A10A ● B10A ● C10A ● D10A

KENAI RIVER

**Delineation Map
of
River Terrace RV
Park**

Located within the sw/4 section 34, T5N, R10W,
S. M., City of Soldotna, Kenia Recording District,
Kenia Peninsula Borough, Alaska

Prepared for: Gary Hinkle
PO Box 322
Soldotna, AK 99669

Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- Dry sample
- Moist sample
- Water in hole

Depth: **Bottom Samples**
Type: **Water**

LEGEND

NOTES:

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- ☐ 0.03 ppm or greater
- ☐ 1 ppm or greater
- ☐ 5 ppm or greater
- ☐ 10 ppm or greater

Depth: 35' LIFT

Type: TCE

LEGEND

U Contaminate was not Detected
UC Sample could not be collected
NA Sample was not analysed

NOTES:

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BR

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- ☐ 0.03 ppm or greater
- ☐ 1 ppm or greater
- ☐ 5 ppm or greater
- ☐ 10 ppm or greater

Depth: 30' LIFT
Type: TCE

LEGEND

U Contaminate was not Detected
UC Sample could not be collected
NA Sample was not analysed

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Park**

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- ☐ 0.03 ppm or greater
- ☐ 1 ppm or greater
- ☐ 5 ppm or greater
- ☐ 10 ppm or greater

Depth: 25' LIFT
Type: TCE

LEGEND

U Contaminate was not Detected
UC Sample could not be collected
NA Sample was not analysed

NOTES:

CORRECTION

**THE FOLLOWING DOCUMENT(S)
HAVE BEEN REFILMED TO
ASSURE LEGIBILITY OR PAGINATION**



Rev. 6/98

Central Microfilm Services
Department of Education
State of Alaska

**Delineation Map
of
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Park**

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- ☐ 0.03 ppm or greater
☐ 1 ppm or greater
☐ 5 ppm or greater
☐ 10 ppm or greater

Depth: 25' LIFT
Type: TCE

LEGEND

U Contaminate was not Detected
UC Sample could not be collected
NA Sample was not analysed

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- ☐ 0.03 ppm or greater
- ☐ 1 ppm or greater
- ☐ 5 ppm or greater
- ☐ 10 ppm or greater

Depth: 20' LIFT
Type: TCE

LEGEND

- U** Contaminate was not Detected
- UC** Sample could not be collected
- NA** Sample was not analysed

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KENAI RIVER

Delineation Map of River Terrace RV Park

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- ☐ 0.03 ppm or greater
- ☐ 1 ppm or greater
- ☐ 5 ppm or greater
- ☐ 10 ppm or greater

Depth: 15' LIFT
Type: TCE

LEGEND

- U** Contaminate was not Detected
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- NA** Sample was not analysed

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KENAI RIVER

Delineation Map of River Terrace RV Park

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- ☐ 0.03 ppm or greater
- ☐ 1 ppm or greater
- ☐ 5 ppm or greater
- ☐ 10 ppm or greater

Depth: 10' LIFT
Type: TCE

LEGEND

- U** Contaminate was not Detected
- UC** Sample could not be collected
- NA** Sample was not analysed

NOTES:

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BRIDGE

0.071 0.256 0.147 0.201 0.106 U

KENAI RIVER

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Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- ☐ 0.03 ppm or greater
- ☐ 1 ppm or greater
- ☐ 5 ppm or greater
- ☐ 10 ppm or greater

Depth: 5' LIFT
Type: TCE

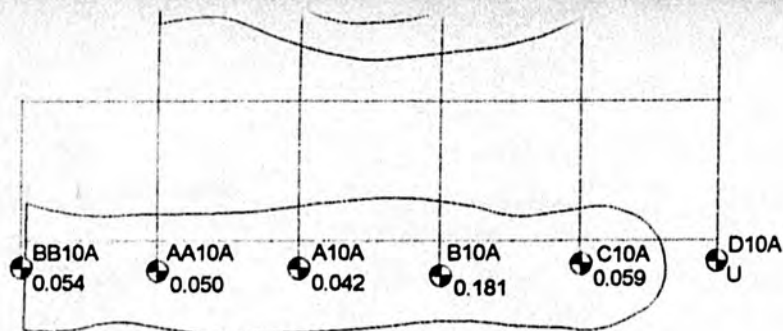
LEGEND

U Contaminate was not Detected
UC Sample could not be collected
NA Sample was not analysed

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- ☐ 0.03 ppm or greater
☐ 1 ppm or greater
☐ 5 ppm or greater
☐ 10 ppm or greater

Depth: SURFACE
Type: TCE

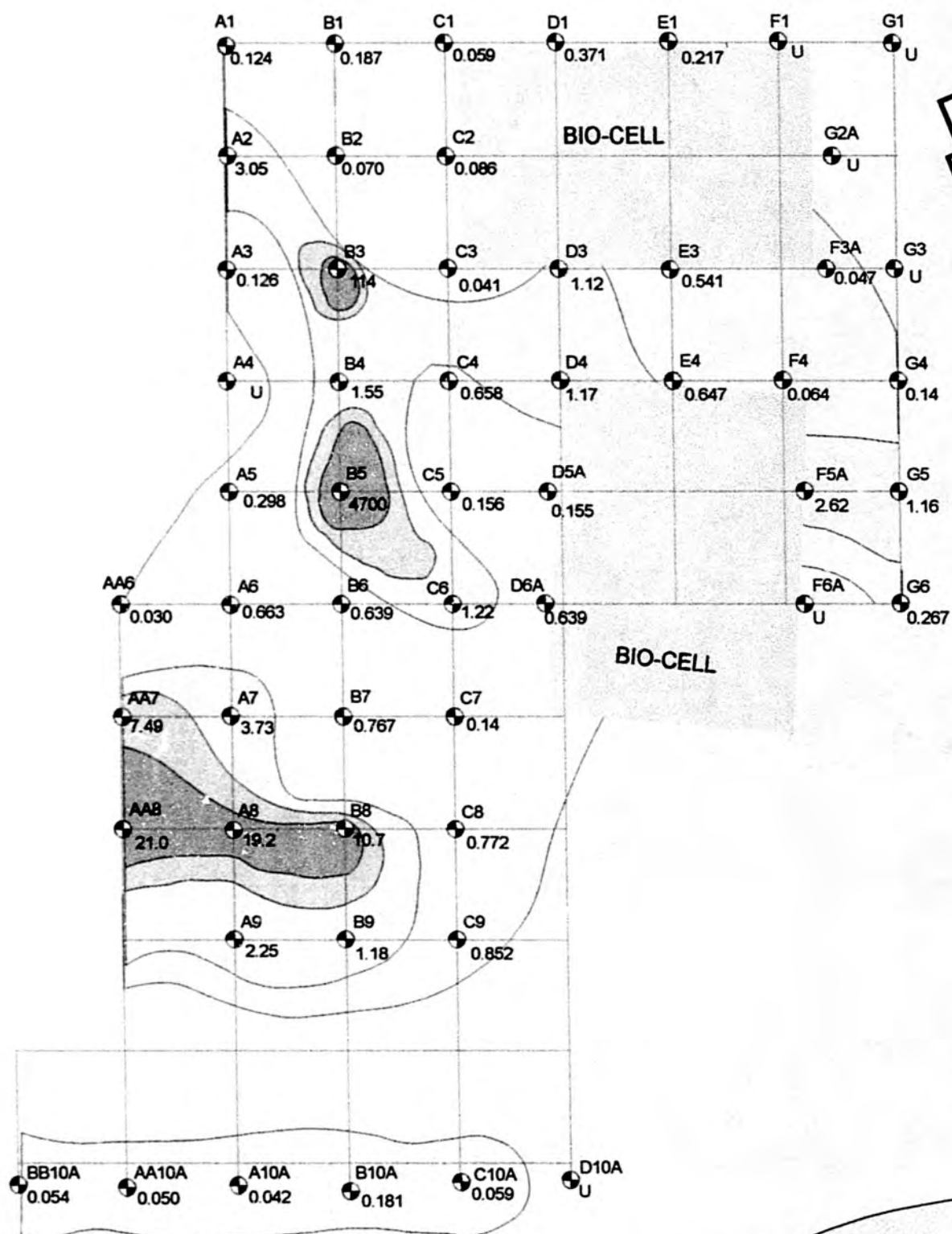
LEGEND

U Contaminate was not Detected
UC Sample could not be collected
NA Sample was not analysed

NOTES:



STERLING HIGH WAY



BRIDGE

KENAI RIVER

Delineation Map of River Terrace RV Park

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 86.36 mm = 100 FT

- ☐ 0.03 ppm or greater
- ☐ 1 ppm or greater
- ☐ 5 ppm or greater
- ☐ 10 ppm or greater

Depth: SURFACE
Type: TCE

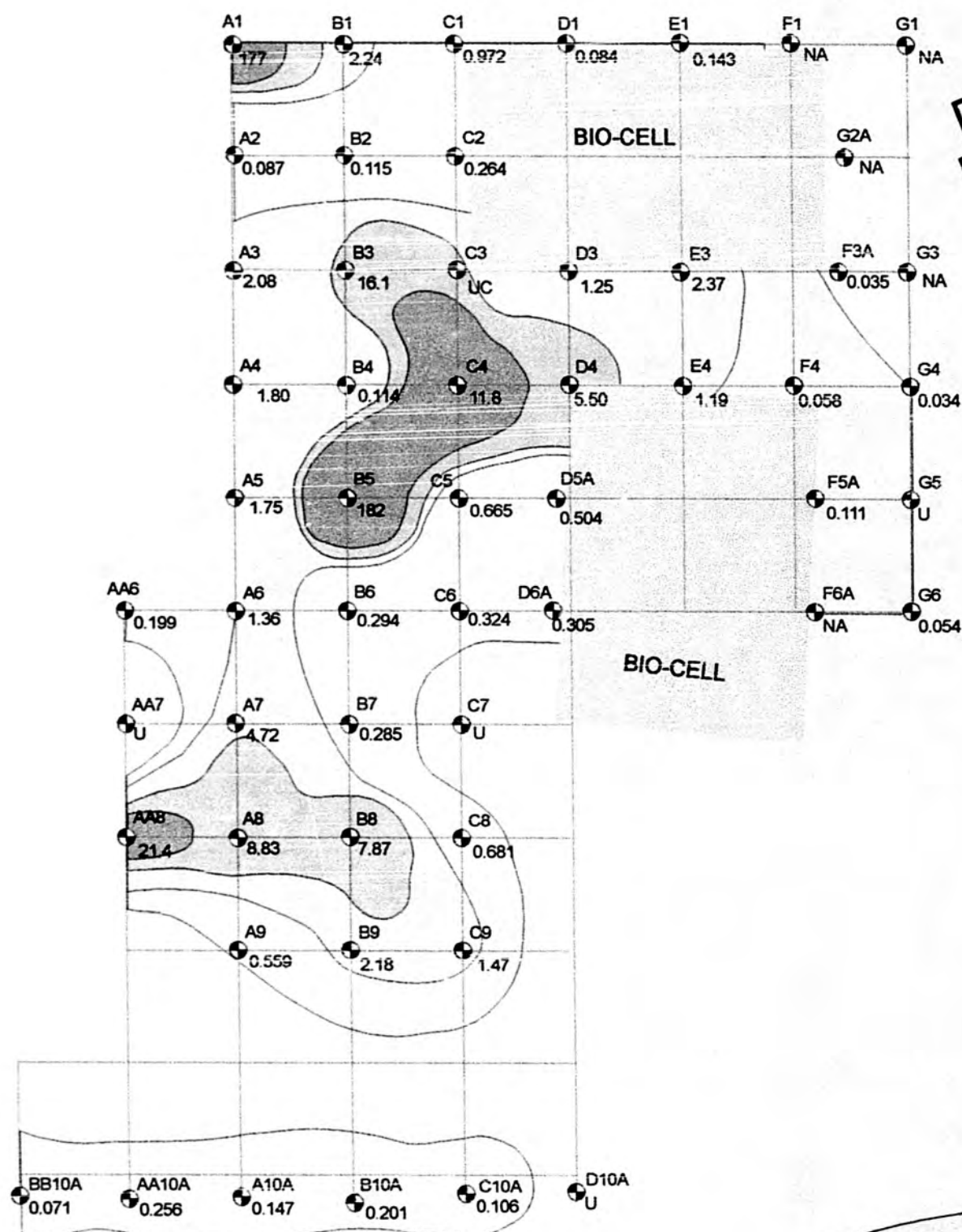
LEGEND

- U** Contaminate was not Detected
- UC** Sample could not be collected
- NA** Sample was not analysed

NOTES:



STERLING HIGH WAY



KENAI RIVER

**Delineation Map
of
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**Kennard
Environmental
Consultants**

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- 0.03 ppm or greater
- 1 ppm or greater
- 5 ppm or greater
- 10 ppm or greater

Depth: 5' LIFT
Type: TCE

LEGEND

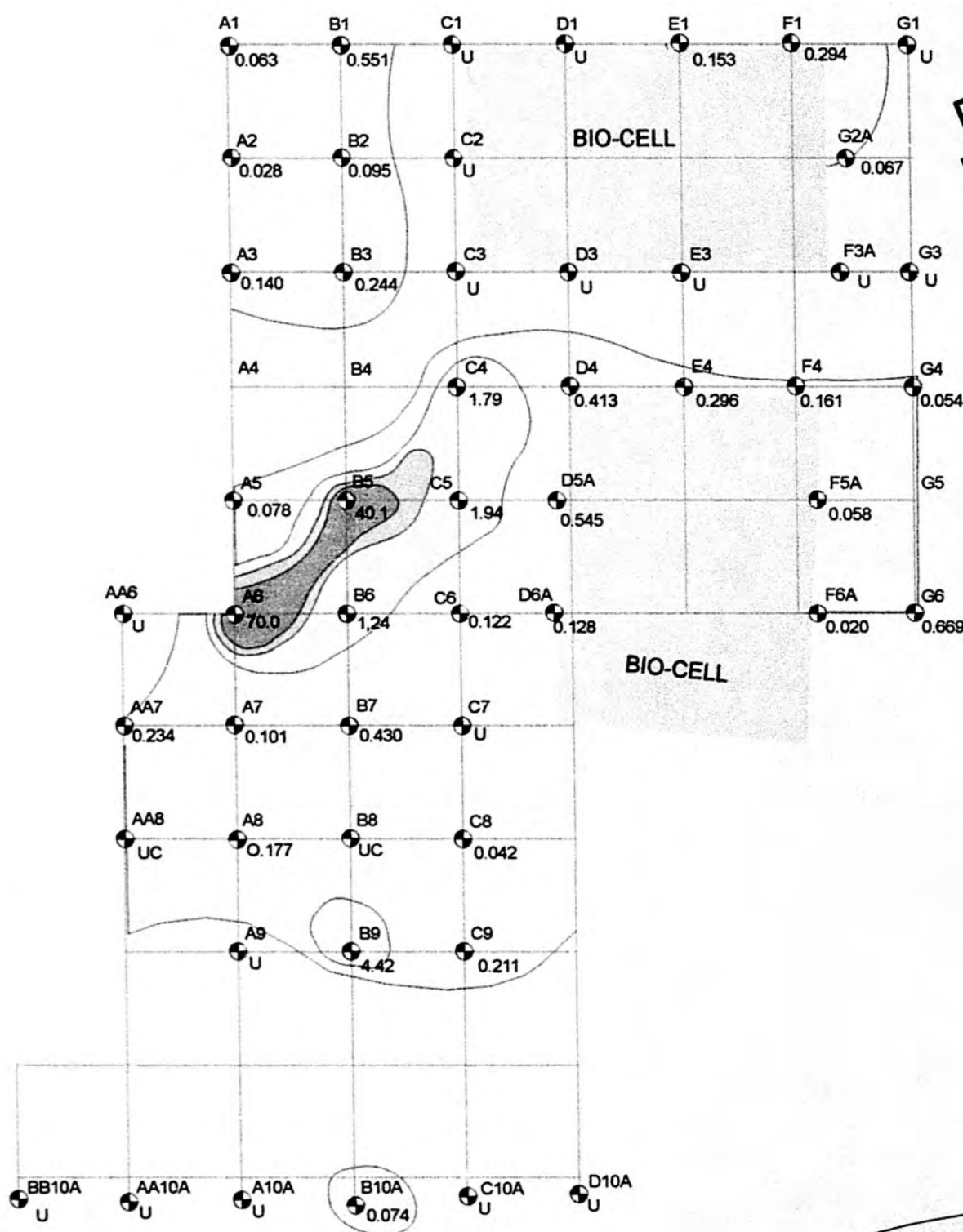
- U Contaminate was not Detected
- UC Sample could not be collected
- NA Sample was not analysed

NOTES:



STERLING HIGH WAY

BRIDGE



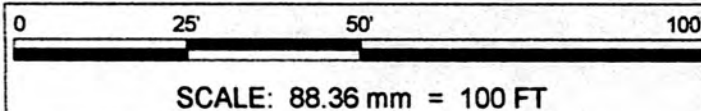
KENAI RIVER

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**Kennard
Environmental
Consultants**



- 0.03 ppm or greater
- 1 ppm or greater
- 5 ppm or greater
- 10 ppm or greater

Depth: 10' LIFT
Type: TCE

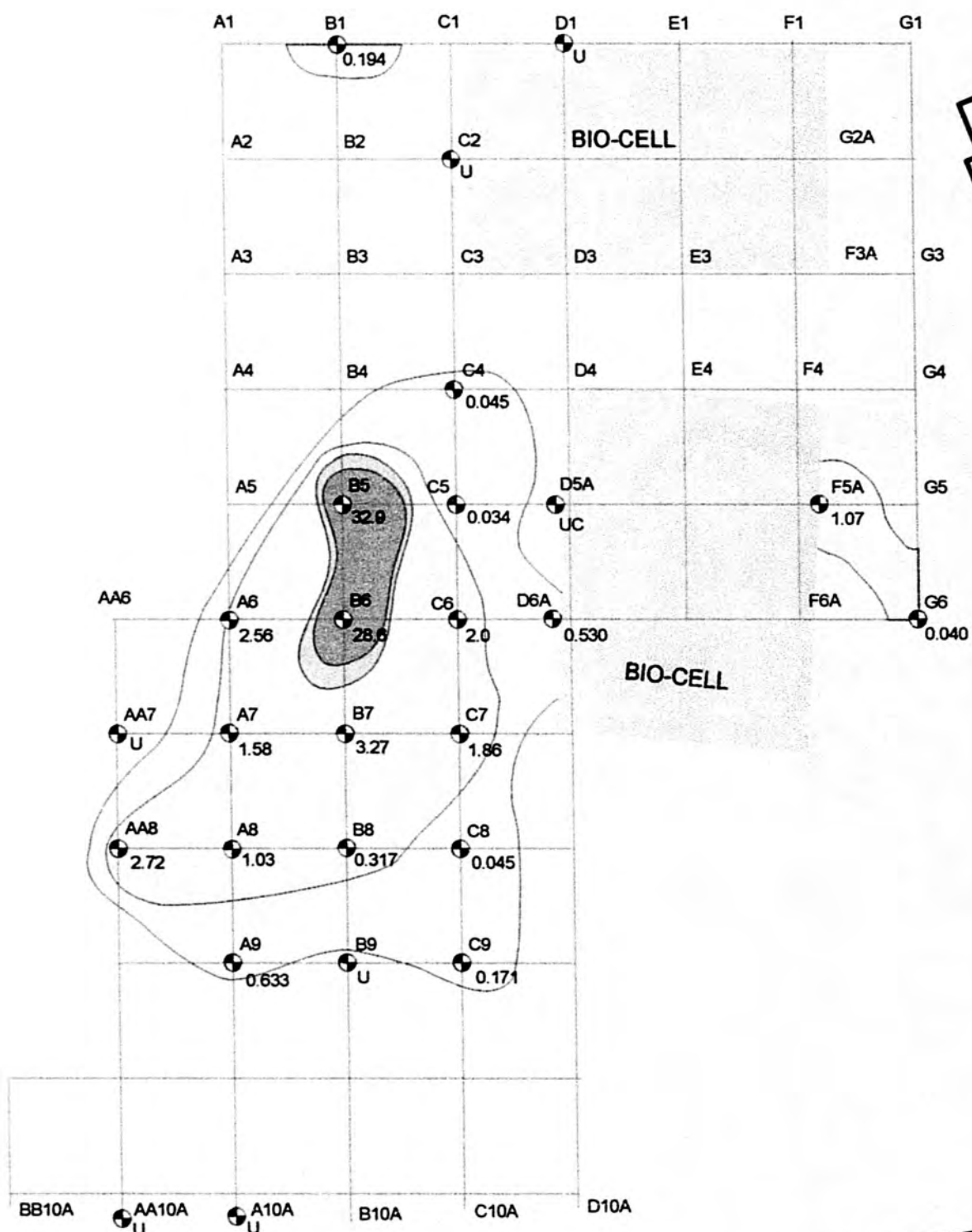
LEGEND

- U Contaminate was not Detected
- UC Sample could not be collected
- NA Sample was not analysed

NOTES:



STERLING HIGH WAY



BRIDGE

KENAI RIVER

Delineation Map of River Terrace RV Park

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Kennard
Environmental
Consultants

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- 0.03 ppm or greater
- 1 ppm or greater
- 5 ppm or greater
- 10 ppm or greater

Depth: 15' LIFT
Type: TCE

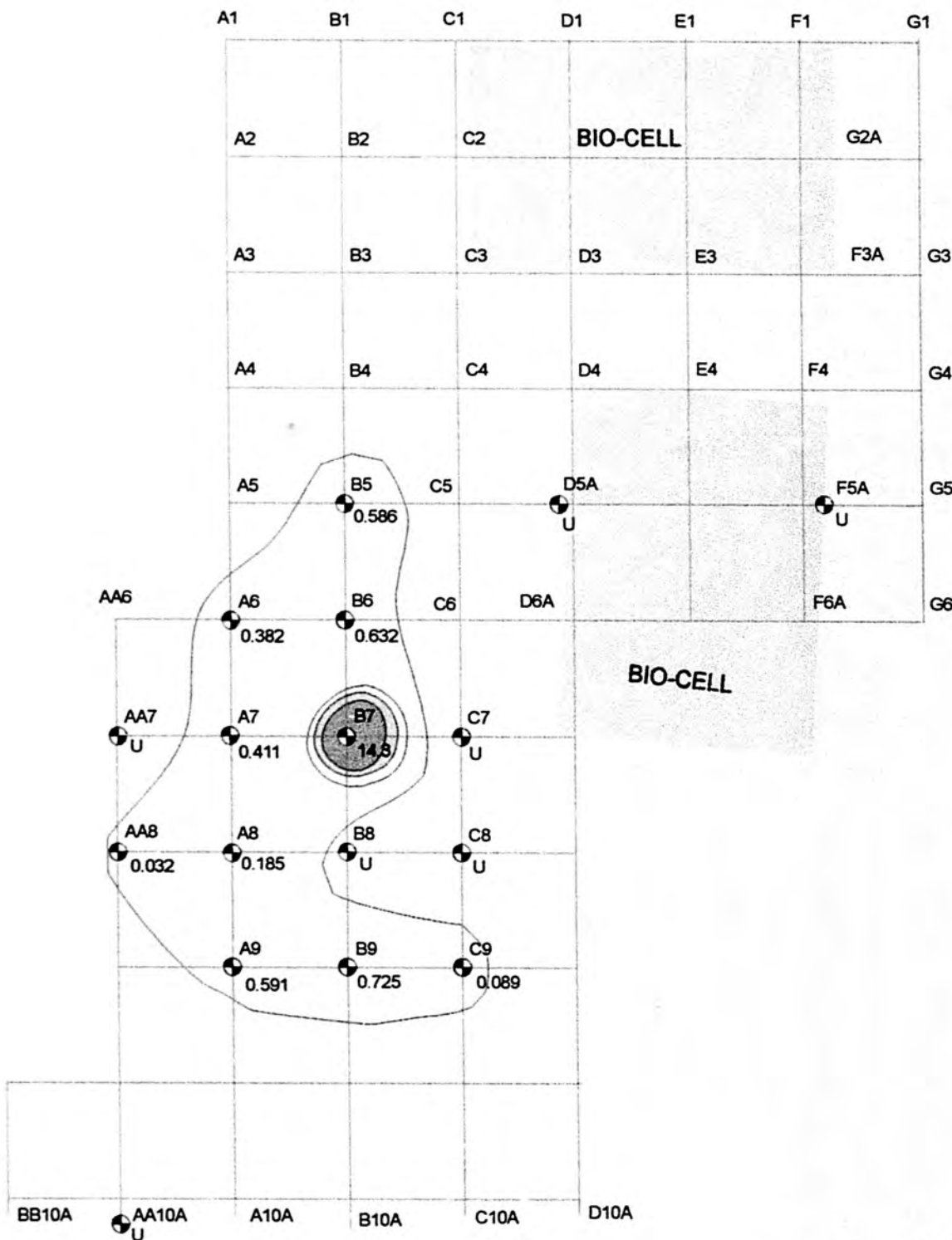
LEGEND

- U Contaminate was not Detected
- UC Sample could not be collected
- NA Sample was not analysed

NOTES:



STERLING HIGH WAY



BRIDGE

KENAI RIVER

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Environmental
Consultants**

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- 0.03 ppm or greater
- 1 ppm or greater
- 5 ppm or greater
- 10 ppm or greater

Depth: 20' LIFT
Type: TCE

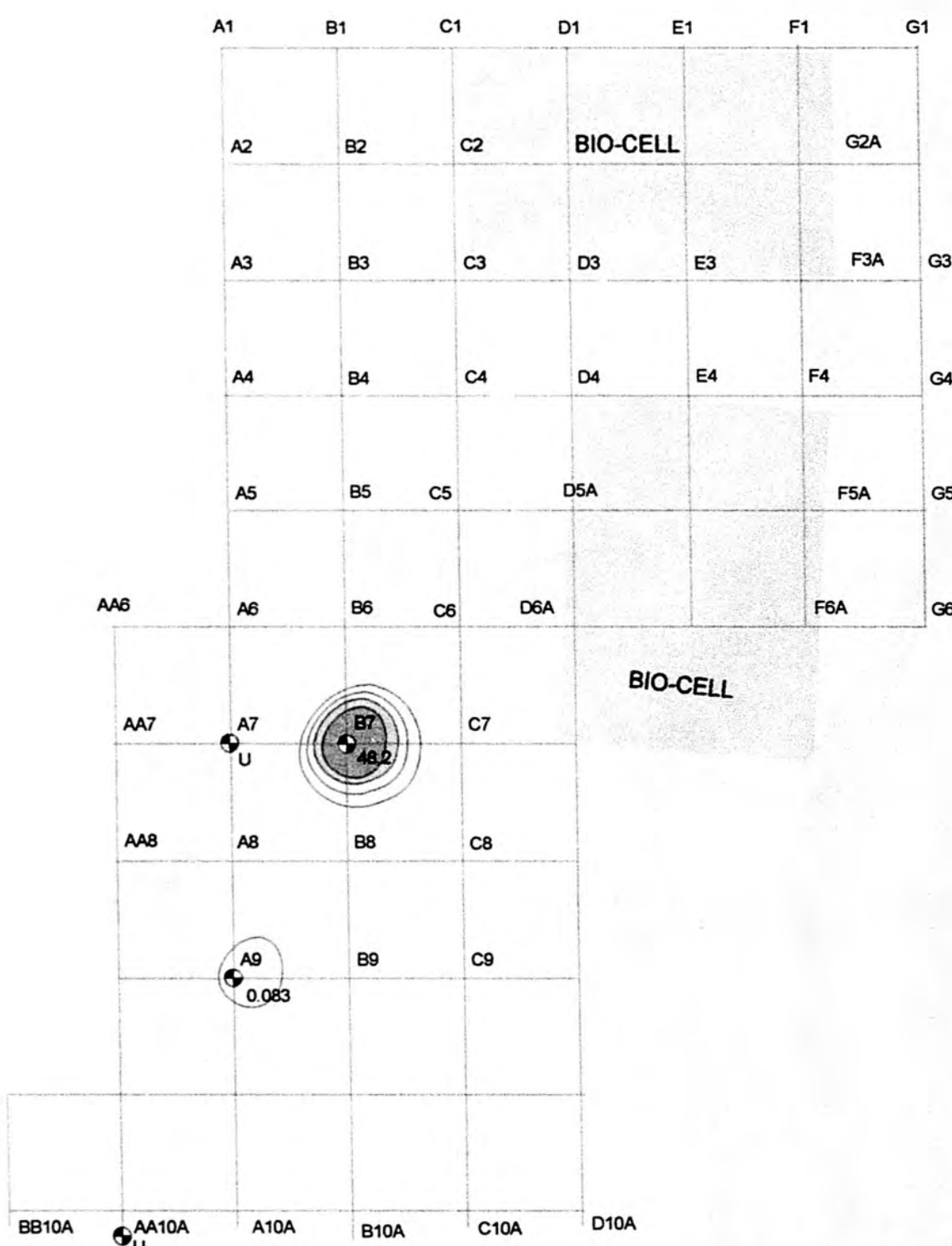
LEGEND

- U Contaminate was not Detected
- UC Sample could not be collected
- NA Sample was not analysed

NOTES:



STERLING HIGH WAY



KENAI RIVER

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**Kennard
Environmental
Consultants**

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

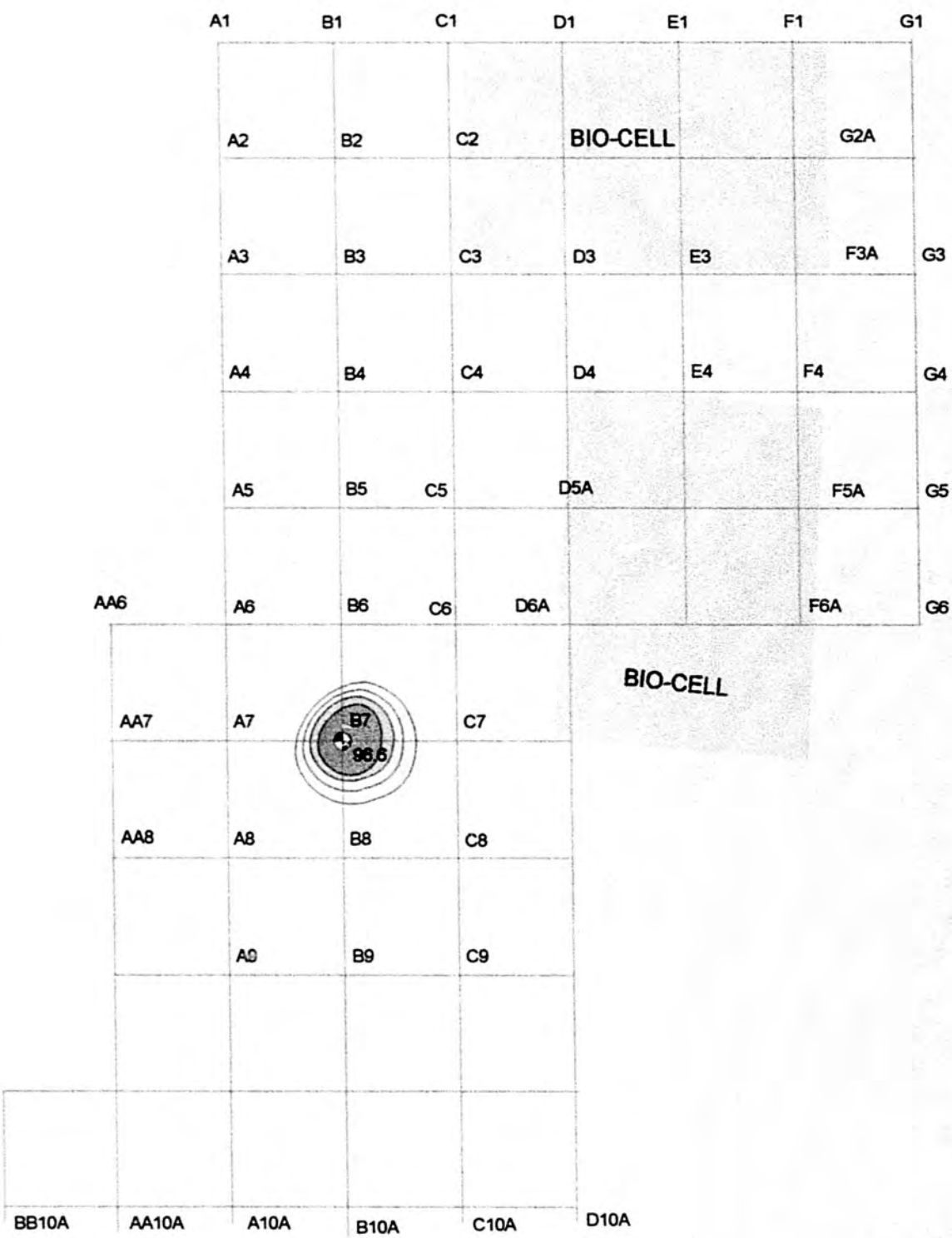
- 0.03 ppm or greater
- 1 ppm or greater
- 5 ppm or greater
- 10 ppm or greater

Depth: 25' LIFT
Type: TCE

LEGEND

- U Contaminant was not Detected
- UC Sample could not be collected
- NA Sample was not analysed

NOTES:

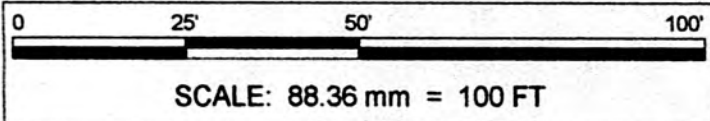


**Delineation Map
of
River Terrace RV
Park**

Located within the sw/4 section 34, T5N, R10W,
S. M., City of Soldotna, Kenia Recording District,
Kenia Peninsula Borough, Alaska

Prepared for: Gary Hinkle
PO Box 322
Soldotna, AK 99669

**Kennard
Environmental
Consultants**



- ☐ 0.03 ppm or greater
- ☐ 1 ppm or greater
- ☐ 5 ppm or greater
- ☐ 10 ppm or greater

Depth: 30' LIFT
Type: TCE

LEGEND

- U** Contaminate was not Detected
- UC** Sample could not be collected
- NA** Sample was not analysed

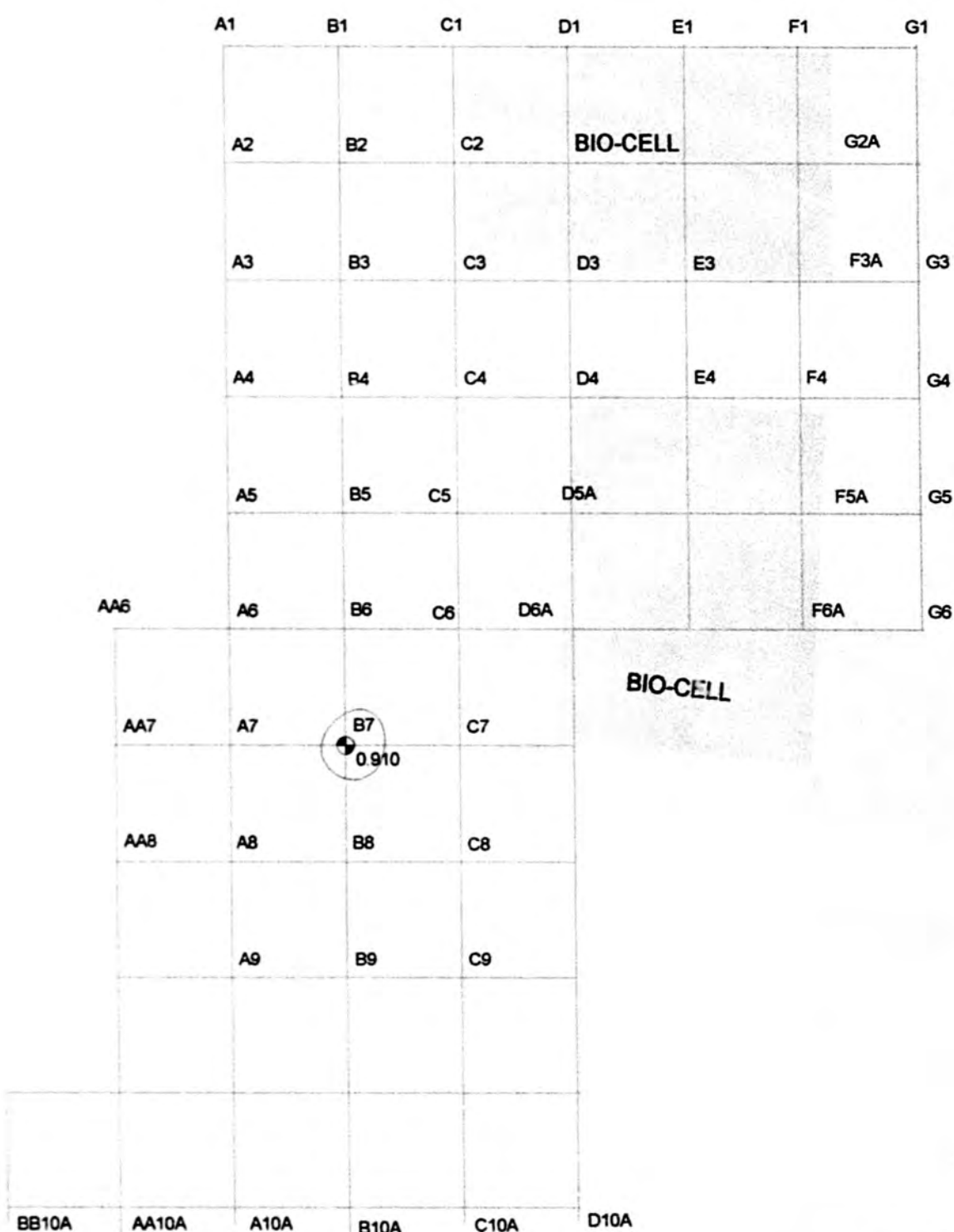
NOTES:



PRIVATE RESIDENCE

STERLING HIGH WAY

BRIDGE

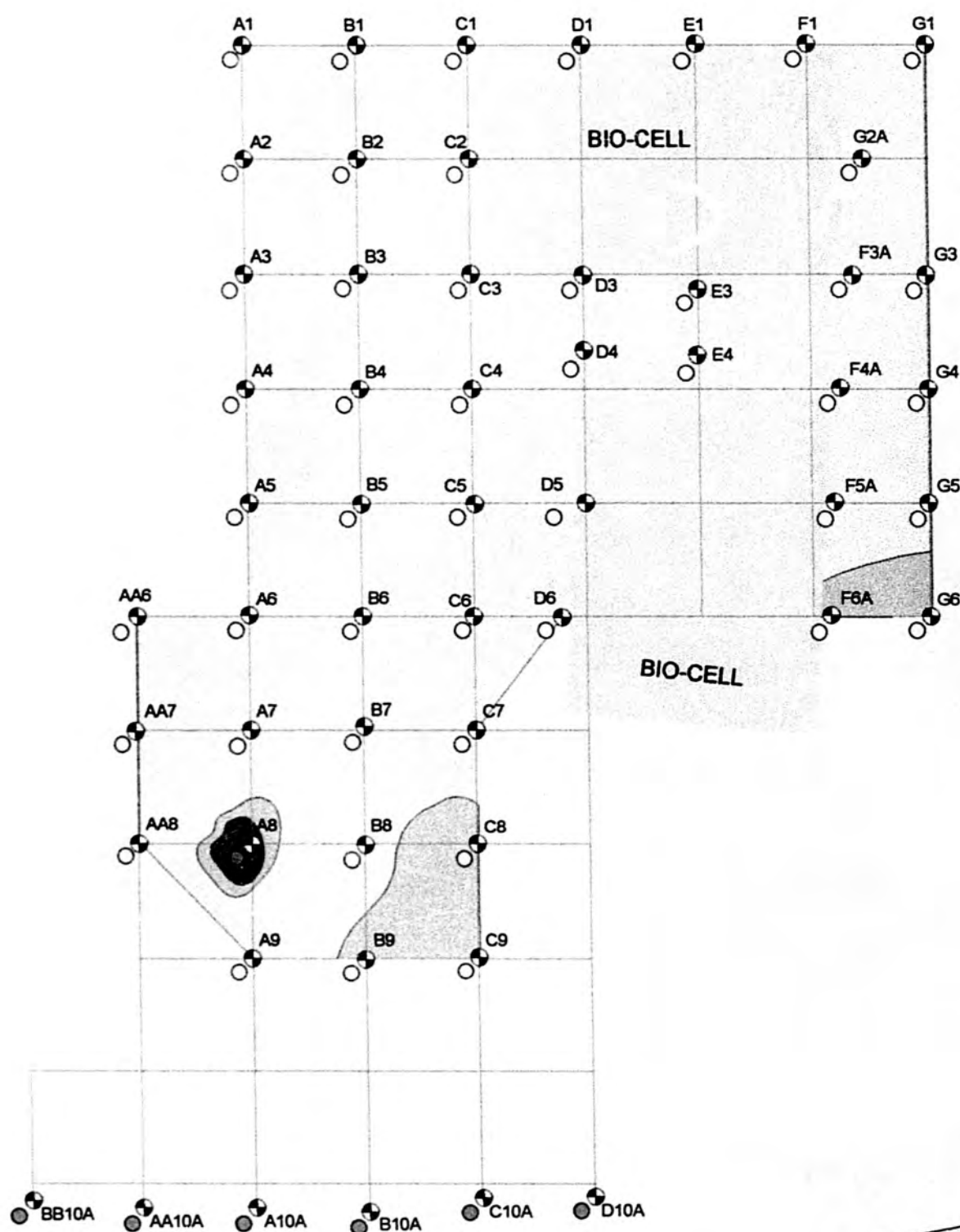


KENAI RIVER

NOTES:



STERLING HIGH WAY



BRIDGE

KENAI RIVER

**Delineation Map
of
River Terrace RV
Park**

Located within the sw/4 section 34, T5N, R10W,
S. M., City of Soldotna, Kenia Recording District,
Kenia Peninsula Borough, Alaska

Prepared for: Gary Hinkle
PO Box 322
Soldotna, AK 99669

**Kennard
Environmental
Consultants**

0 25' 50' 100'

SCALE: 88.36 mm = 100 FT

- Dry sample
- Moist sample
- Water in hole

Depth: Bottom Samples
Type: Water

LEGEND

NOTES:

SCOMM

104:3

ALASKA STATE LEGISLATURE

Session:
State Capitol
Juneau, Alaska 99801-1182
(907) 465-3779 Phone
(907) 465-2833 Fax

Interim:
145 Main St. Loop, Suite 221
Kenai, Alaska 99611
(907) 283-7223 Phone
(907) 283-3075 Fax

REPRESENTATIVE MARK D. HODGINS
House District 9

House Special Committee on Oil & Gas

Agenda

2-3-97

Capitol, Rm. 124

February 3rd

Tuesday

10:00AM

Review of Dutch Harbor Oil Spill, Nov. 1997

Kurt Fredrickson - Department of Environmental Conservation
Bill Schoephoester - Alaska Chadux
Governor Bill Sheffield - Alaska Railroad
Bob Berto - Northwest Cruise Ship Association
Ross Tuxhorn - Mari-Time Response, U.S. Coast Guard
Linda Fried - Kodiak Island Borough (Regional Spill Response Plan)
Frank Kelty - Mayor, City of Unalaska
Totem Ocean Express
RCAC
Jim Carter - Kenai
Tim Robertson - Seldovia SOS

COMMITTEE MEMBERS

Representatives Con Bunde, Tom Brice, Allen Kemplen, Scott Ogan,
Norman Rokeberg, Joe Ryan

Questions for DEC - Oil & Gas, 2-3-98

- Regarding spills that are not related to crude oil, – Mr. Fredricksson stated many local communities are now equipped to respond to spills and that the 470 funds allows the state to reimburse the local communities.

Q: Who reimburses the 470 fund?

Q: What happens to the interest accrued on the \$50 million?

Q: Where is the fund today with regard to the \$50 million?

Q: Does the Dept. of Administration do a quarterly report on the fund?

Q: Are they required to do so by statute?

- Regarding spills that are not related to crude oil.

Q: How often does DEC access the oil and hazardous response fund?

Q: What is the DEC success ratio of recovering costs from the Responsible Party?

Q: In what sector is DEC least successful in recovering costs? ie: private individuals, public entities, communities,...

Q: What is the criteria for DEC to "waive" cost recovery?

- Please provide a list of projects and the costs waived for the negotiated waivers of repayment.

Q: What is the criteria used to determine when these will be waived?

Q: Are any DEC staff "dedicated" to cost recovery functions?

- Please provide a detailed list of DEC personell (include AG's office) and hardware/software costs directly related to cost recovery functions.

- In the last hearing Mr. Fredricksson, responding to a question from Rep. Rokeberg, said that the state cannot assume responsibility until it has confirmed that the responsible party has failed to secure an adequate response.

Q: How does this happen and how long does it take?

- The Legislature split the nickel in 1993 – 2 cents, 3 cents. The three cents is supposed to go toward “readiness and preparation.” Since 1993 we’ve been putting around \$12 – 15 mil. per year into this fund so we should have spent somewhere in the neighborhood of \$50 – 60 million. Using the Kuroshima spill, 39,000 gallons (relatively small), as an example it doesn’t appear that we are exactly ready nor prepared. After spending approximately \$50 – 60 million on readiness and preparation.

Q: Why were we reliant on a private nonprofit organization to respond to the spill.

Q: What, exactly, have we been spending the money on?

- The state has supposedly purchased equipment to assist in responding to spills.

Q: Are there equipment caches placed throughout the state? How much of the 3 cents is spent on equipment?

Q: How much of the 3 cents is spent on training?

Q: How much of the 3 cents is spent on DEC staff?

- There seems to be some confusion on who is actually in charge of a spill immediately after a spill occurs. I would like to get some clarification on the chain of command.

Q: When a spill occurs and a contingency plan is not in place, what agency, DEC or the Coast Guard, is immediately in charge of the spill.

- It is my understanding that DEC doesn’t require vessels hauling fuel for purposes of propulsion (non-cargo) to have a contingency plan regardless of their carrying capacity.

Q: Does DEC require any kind of liability insurance or bonding of vessels carrying large amount of fuel on board (for propulsion or as cargo)?

- Given that Bunker fuel is one of the most difficult substances to clean up when spilled.

Q: Does DEC have any special requirements for ships carrying bunker fuels?

Q: Why not?

Q: Why does DEC consider bunker fuels differently than the Coast Guard?

- In the last hearing Kurt Fredricksson, DEC, stated that from 7-1-95 through 12-31-97, over 2000 spills totaling roughly 170,000 gallons came from nonregulated facilities.

Q: What type of facilities are these?

Q: Who owns them?

Q: What DEC recommend for future regulation regarding these spills totaling 170,000 gallons?

Q: Who does DEC think should be paying to cleanup these spills?

**S.O.S. RESPONSE TEAM****A LOCAL EMERGENCY RESPONSE TEAM**

Non-Profit

P. O. Box 194, Soldotna, AK 99663

Phone: (907) 234-7400 FAX: (907) 234-7699

To: Rep. Mark Hodgins
fax 465-2273

Date: 2-1-98

Dear Rep. Hodgins,

The SOS Response Team has been following the Kuroshima incident and this hearing very closely. This is an incident which we, as a community-based organization, have been trying to prepare for since 1989. This one occurred in Dutch Harbor, the next one may be in southern Cook Inlet.

I have an enclosed a brief summary of the SOS Response Team along with a partial draft of member Tim Robertson's report for PWSRCAC on the Community-based Nearshore Strike Team model. SOS and the Kenai Peninsula Borough signed a contract on Jan.29, 1998 to begin work on this model. SOS has been in the process for several years but just now are we moving forward to the approach suggested from the Exxon spill recommendations of 1990.

The state has a funding mechanism to create a network of strike teams through the 470 fund or OHSRF. I hope that as you move through this hearing process, you and other legislative members will see the benefits of using the 470 fund for community based strike teams. Perhaps as SOS shows how successful these can be, more will be funded adequately.

It is unfortunate that it takes a spill to remind people of what should be done. We encourage you and your committee to work with ADEC in re-examining a proper approach to establishing local networks for response. This would be an excellent public use of the fund.

Please call fax or write if we can be of assistance in discussing these ideas or offer other information about ADEC's Sitka Area Nearshore Project of 1994-6 or the new Strike Team just beginning.

Sincerely,

Karl Pulliam
Karl Pulliam



S.O.S. RESPONSE TEAM

A LOCAL EMERGENCY RESPONSE TEAM

Non-Profit

P.O. Box 194, Seldovia, AK. 99853

Phone: (907) 234-7400 FAX: (907) 234-7699

"The SOS mission is to help train and equip coastal communities for local spill response."

Directors:

Herman Moonin-97
Shirley Hughes-98
Fred Elvsaas-98
Mary Pollack-98
Linda Hedgecoth-97
Walter McInnes-97
Tim Robertson

Officers:

President:
John Kvarford

Operations
Vice-President:
Karl Pulliam

Secretary:
Joan Dunn

Treasurer:
Shirley Hughes

Office Personnel:

Project Manager:
Karl Pulliam

Office Manager:
Joan Dunn

Fishing Vessel
Administrators:
Karl Pulliam
Mary Pollack
Linda Hedgecoth
Joan Dunn

Bookkeeper:
Shirley Hughes
Sue Russell

The SOS Response Team consists of residents trained and equipped for spill emergencies in Kachemak Bay and Lower Cook Inlet. This local group was organized by Seldovia residents in 1989. The SOS Team's computerized resource data base lists over 300 vessels, 100 trained responders and other available resources from communities in Cook Inlet.

Funding for SOS comes from several sources:

1. SERVS - Alaska Pipeline Service - SOS is SERVS' Community Response Center for the Kenai Peninsula which stretches from Kenai to Nanwalek. We provide a resource data base of SERVS contracted personnel and fishing vessels.
2. CISPRI - Cook Inlet Spill Prevention & Response - SOS provides a winter barge watch and maintenance for 2 CISPRI response barges.
3. CHADUX - Beginning in late 1997, SOS will provide a vessel database for this response organization.
4. MEMBERSHIP DUES - An annual membership fee is \$25. Members receive discounts with area merchants such as The Gear Shed and Bay Safety in Homer. Members are kept informed of SOS activities through informational mail-outs.
5. Funds have also been generated through spill response work for the Coast Guard and Seldovia Native Assn.(SNA). BP Alaska, the City of Seldovia and SNA provided initial start-up money and continues to donate many items and services.

The SOS office acts as a community information center for Coast Guard, RCAC & EVOS news, Cook Inlet Keeper and legislative action. The office offers fax services, a copier machine, free Notary service, and manages the recycling depot for the Kenai Peninsula Borough.

SOS continues to pursue and support ideas which involve local citizens in effective plans to protect our waters. Currently SOS and the Kenai Peninsula Borough are working towards a model plan for community response in Homer, Port Graham, Nanwalek and Seldovia beginning in 1998.

OCTOBER 1997

Board meetings are held the first Thursday of each month at 7 PM

**Draft
Final Report
to
PWS Regional Citizens' Advisory Council
on
Contract 612.97.1
Community-based Nearshore Strike Teams**

by

TIM ROBERTSON

Box 175, Seldovia, AK 99603

907 234-7821 FAX 234-7600

EMAIL: TROBERT@SOLDVIA.AK

I. Introduction

This project is part of the Regional Citizens' Advisory Councils (RCACs) efforts to prepare local citizens for responding to oil spills. Since their formation, the two RCACs have promoted establishment of local response groups and community response centers to facilitate an effective nearshore response. In 1992 Prince William Sound RCAC contracted International Spill Technology of College Station, Texas to produce a study titled A Coastal Communities Cooperative for Alaska - A Feasibility Study. This study detailed the need for a coordinated effort to organize and equip a community-based oil spill response effort. It outlined in detail the organization and equipment necessary to form such a cooperative. In 1996 the two RCACs contracted EcoSystems of Juneau, Alaska to produce a Community Response Center Manual an aid to coastal communities that wish to establish a community response center.

In November, 1996 this contract was let to give the councils technical advice in advocating the formation of a community-based strike teams program for the Cook Inlet region. In December, 1996 I wrote a report titled Nearshore Systems Analysis that provided a history of the efforts to develop a community-based nearshore response program in the region impacted by the *Exxon Valdez* oil spill. It also described the intent and use of the State of Alaska's Oil and Hazardous Substance Release prevention and Response Fund (OHSRF). In February, 1997 I provided the RCACs with another report titled Proposed Model for Community-Based Nearshore Strike Teams which detailed a model for communities in Cook Inlet based on the equipment assembled under the Alaska Department of Environmental Conservation (ADEC) Nearshore Strike Team Demonstration Project.

This is the final report for the RCACs under this contract. It is intended to summarize the current project status and detail items which must be accomplished now that the project has reached the implementation phase.

The current status is that the Kenai Peninsula Borough (KPB) Office of Emergency Management (OEM) is charged with establishing the program. The KPB has received a \$60,000 grant, to provide seed money for the program, from the ADEC via an appropriation from the OHSRF by the Alaska State Legislature. KPB and ADEC signed a Memorandum of Agreement (Appendix A) and a Local Response Agreement (Appendix B) to establish a relationship between these organizations for this program, transfer the \$60,000, and provide a mechanism for ADEC to access the oil spill response barge in a spill event. The KPB Assembly passed an appropriating ordinance on September 2, 1997 establishing the program under the KPB OEM (Appendix C).

An Equipment Transfer Agreement between KPB and the Department of Administration is pending which will transfer the oil spill response barge, *Alaska Responder 650*, and associated equipment to KPB for use in the program (Appendix D).

KPB OEM is conducting a dialog with the communities on the lower Kenai Peninsula and the Seidovik Oil Spill Team, Inc. (SOST) in order to define the scope of the program and community involvement in the program.

This report is meant to facilitate that dialog and the program implementation. It contains a suggested mission statement, scope, goals and tasks for the program's first three years of operation. There is a discussion of the form of the program and the relationships between the various parties. It is left to the parties to establish these relationships and work out the details. There is also a proposed operating budget for the program and a suggested rate sheet for response services. Finally there is a discussion of funding mechanisms for future years.

Recent news paper articles are included in Appendix E.

II. Strike Teams Mission, Scope, Goals and Relationships

A. Mission Statement

The suggested mission statement for this program is:

The mission of the Community-based Nearshore Strike Teams Program is to use local community peoples and resources to protect the local environment, economy, and culture from oil spill impacts.

B. Program Scope

The initial scope of the program is to develop oil spill strike teams in three communities on the lower Kenai Peninsula: Homer, Seldovia, and Port Graham/Nanwalek during the next three years. If this is successful, then the program may be expanded to other communities.

The program will be housed in and managed by the SOS Team Inc., a 501(c)(3) non-profit corporation, located in Seldovia. The KPB will provide support in two ways. First, the KPB will enter into a contract with the SOS Team to maintain the oil spill response barge. This contract will also set terms and conditions of use for the barge by the SOS Team. Secondly, the KPB will support the development and training of the strike teams through grants to the SOS Team.

The communities of Homer, Seldovia, Port Graham and Nanwalek may also provide staff support, services, access to equipment and possibly some grant funding. The role of the local governments is to help prepare the strike teams for response through training and equipment access. The SOS Team will be the response entity during an actual spill response. The local governments will not be a party to response activities or exposed to liabilities associated with such activities.

Five types of response teams will be developed using local people and vessels. Each type of team will have a different response capability.

1. Harbor Response Teams will be trained to respond to small spills in the harbor using boom and absorbent materials.
2. Barge Response Teams will be trained to use the Responder 650 to contain and remove oil in the nearshore environment.
3. Boom Towing Teams will utilize fishing vessels or skiffs to corral oil in containment boom for eventual removal by the barge response team.
4. Shoreline Protection Teams will be trained to protect specific sensitive areas from oil spill impact through the placement of protection booms and anchors.
5. Lightering Teams will be trained to remove fuel oil from a vessel sunken, grounded or in danger of sinking by pumping its fuel into the barge or other appropriate containers.

C. Three Year Program Goals and Objectives

The primary goal of the program is to build a cost-effective response network through a partnership between the state, local communities, vessel owners and industry oil spill cooperatives. The immediate objective of the program is to prepare and equip strike teams in each community for timely response to oil spills. The teams will contain and clean up spills or protect local resources from impact if the spill can not be contained. This means having the trained personnel, access to equipment and supplies, insurance and contracts for services necessary to mount a response within two hours of call out.

The second goal of the program is to provide public education on oil spill prevention and response through brochures, news letters, and speakers.

The final goal is to raise funds to continue the program in future years.

1. 1997 Tasks

The tasks for the first year of the program are:

- 97-1 Obtain all insurance, contracts and agreements necessary to become response ready.
- 97-2 Maintain oil spill response equipment for immediate readiness.
- 97-3 Develop memorandums of agreement with local communities to provide support services such as moorage, equipment use, and storage.
- 97-4 Develop and maintain a database to track contract vessel and personnel availability.
- 97-5 Develop a time-of-spill response contract.
- 97-6 Complete an inventory of response equipment in each community and develop an equipment depot in each community for immediate response.
- 97-7 Develop memorandums of agreement or lease agreements with equipment owners for access to response equipment.

- 97-8 Seek donations of surplus spill response equipment from SERVS, Alaska Clean Seas and others;
- 97-9 Work with SERVS, Chadux, and CISPRI to begin a cooperative training program and to provide response services on a sub-contract basis;
- 97-10 Work with USCG to obtain a Basic Ordering Agreement or a Memorandum of Understanding for response services;
- 97-11 Establish and train Harbor Response Teams in three communities and a Barge Response Team in Seldovia; and
- 97-12 Prepare a work plan grant proposal for 1998.

2. 1998 Tasks

The tasks for the second year of the program are:

- 98-1 Maintain all insurance, contracts and agreements necessary to remain response ready;
- 98-2 Maintain oil spill response equipment for immediate readiness;
- 98-3 Provide Hazmat refresher training for all personnel and crews;
- 98-4 Establish and train barge response teams in Homer and Port Graham;
- 98-5 Train as many boom towing teams as possible in each community;
- 98-6 Develop contracts with spill response organizations to provide response services;
- 98-7 Develop a Term Contract with ADEC for spill response services;
- 98-8 Register as a Primary Response Action Contractor with ADEC;
- 98-9 Develop alternate funding sources such as grants;
- 98-10 Develop plans for equipment improvements necessary for decontamination, diking and lightering;
- 98-11 Seek donations of surplus spill response equipment;
- 98-12 Work with the LEPC and RCACs to develop a public education program aimed at spill prevention;
- 98-13 Begin developing plans for protection of sensitive areas in each community through site-specific strategies and equipment lists; and
- 98-14 Prepare a work plan for 1999.

3. 1999 Tasks

The tasks for the third year of the program are:

- 99-1 Maintain all insurance, contracts and agreements necessary to remain response ready;
- 99-2 Maintain oil spill response equipment for immediate readiness;
- 99-3 Provide refresher training for all personnel and crews;
- 99-4 Establish and train shoreline protection teams in each community;
- 99-5 Establish and train a lightering team;
- 99-6 Train as many boom towing teams as possible in each community;
- 99-7 Develop contracts with spill response organizations to provide response services;
- 99-8 Develop alternate funding sources;
- 99-9 Continue the oil spill prevention public education program;
- 99-10 Seek donations of surplus spill response equipment;
- 99-11 Continue developing plans for protection of sensitive areas in each community; and

99-12 Prepare a work plan for 2000.

D. Relationships

A clear understanding of relationships between the various parties is important as the program is formed. The Community-based Strike Teams Program will be formed within and managed by the SOS Team, Inc. The SOS Team will be the response entity for any spill response by the program. The SOS Team is solely responsible for the training and development of the strike teams.

The KPB OEM will establish a fund to support the development of community-based strike teams programs and to maintain the State of Alaska's nearshore response equipment acquired through the Equipment Transfer Agreement (Appendix D). This fund will initially consist of the \$60,000 transferred to the KPB via the Memorandum of Agreement with ADEC (Appendix A).

The KPB OEM will contract with the SOS Team to maintain the State of Alaska's response barge and equipment. Under this contract the SOS Team will be allowed to charter this equipment for spill response activities and training. Proceeds from any charters will be returned to the KPB OEM fund.

ADEC will have access to the barge and its equipment through the Local Response Agreement (LRA) with KPB (Appendix B). ADEC will not have access to other services of the program such as trained personnel and vessels through the LRA because these will not be borough assets. If ADEC wishes to access the strike teams for spill response activities they may establish a Term Contract with the SOS Team for response services.

The US Coast Guard may have access to the strike teams services and equipment through a Basic Ordering Agreement or an Emergency Procurement Agreement.

Industry oil spill cooperatives may have access to the strike teams services and equipment and may list those capabilities to meet c-plan holder's response planning standards through a pre-spill contract for services.

A responsible party for an oil spill may gain access to the strike teams services and equipment through a pre-spill contract for services or a time-of-spill contract for services.

III. Minimum Strike Team Program Requirements

A. Risk Management

The single largest cost for maintaining the program will be insurance. Insurance must be in place before the teams can be called out for spill response or training. The KPB Risk Management Department will be responsible for insurance of the oil spill response barge for liability. Consideration should be given to not insuring the barge and equipment for loss of hull and machinery. This would save the program \$3,000 each year in operating costs. Everyone would accept the risk of losing the barge.

Additionally any vessels of opportunity used in the program must have both hull & machinery and oil pollution liability insurance. Most vessels have hull & machinery policies in place. Contracts between the SOS Team and response vessels should require the vessel owner to maintain a hull & machinery policy for the replacement cost of the vessel and provide evidence that such a policy is in effect. The Strike Teams program will have to provide oil pollution liability for the contract vessels.

Workers compensation insurance will be provided to all SOS Team employees of the program. The workers compensation insurance will cover all response employees except the crews of the contracted fishing vessels. A review of the coverage for the crews of vessels under contract needs to be done to determine if they are adequately covered by the owners' existing policies.

Care must be taken in arranging contracts to limit liability. The role of local governments is to provide support to the program without becoming apart of response services carried out under the program. With the exception of the LRP between KPB and ADEC, all contracts for spill response will be between the SOS Team and the party requiring response activities. The parties requiring response services must indemnify and hold harmless the KPB and local governments as a condition of their contract.

B. Maintenance

The response barge and other equipment must be maintained in a condition ready for immediate response. The SOS Team must develop a program that covers the following maintenance items:

- Bi-weekly maintenance check.