Telecom Marcie 6.11.99

upshot = let's get going on dinoseb

Dinoseb area

issues

health risk to school children

- school starts Aug 30, site is next door to school = pot. for dust exposure to children
  timing - if the field work takes place during school what steps can be taken: weekend work, BMPs like dust suppesent (hosers), fences barricades

- Secors approach is slow, inefficient, expensive
  the 42K workplan is only for characterization
  it recomends sample grid
  why cant an expedited approach be taken
  = sampling, excavation, hauling
  char. reme. disp

  Some thing like this was done previously when EPA was out there

- Brad Shipley involvement
  Marcie has two angles • timing - probably false assumption that EPA can do it faster
  • general desire for alternative to Secor
  JK is one who originally suggested Brad Shipley but this was as cost issue not timing

Additional GW Sampling
Neither emphasized this issue, JK has indicated he will find BIA money

Contamination Level Dec. Making
a Dave Taylor issue ~~wat~~ what level is considered clean - in past Marcie in UST ~~a~~ program has defered to NV ~~stdr~~ standards ~~[illegible]~~ repeated belief that nat. attenuation is a factor at DV

Marcel

Dunoseb

John has Secor workplan ~~he wants~~
he will send it to us, he wants
to compare Secor to Bird Shipley
lets see how it ~~goes~~ goes

Additional GW Sampling
JK has indicated he would find
BIA money

Contamination level decision making
: what level of contam. is considered
clean? I think work plan is
silent what do you recall?

Analytical data

JK will set up telecom for
August ~~[illegible]~~ 27th

Telecom John Krause 8.10.99

upshot = we are in a quite interlude

Action levels – he had no specific recollection of discussing use of NV standards. He articulated a general approach ie fed MCL (1) Stater (2) or Tribe (2)

Money – He knows we will cover shortfall
I framed issue as two components
- shortfall – internal EPA issue
- additional analysis – uphill fight

I told him there should be no further discussion of money btwn EPA and BIA

Dinoseb – He has had Secor proposal for awile and will send it to me
He wants to see if EPA (B. Shipley) can do it cheaper I told him I would float the idea once I get workplan
It is for 42K

He has Marcias copy of analytical
he will send it to her

He will set up a telecom for August 27th

100'
5'
LWD
100(100) = 30000 ft² $\frac{0.037 \text{ cy}}{1 \text{ sq}}$ = 1800 cu yds

DVC Duck Valley

general issues

Action levels — When are we clean?
What do we leave in ground

Water
federal MCLs
NV BTEX
TPH

Soil
NV TPH

What has been discussed?
Defer to NV standards

Additional GW sampling
JK indicated he would find money

What's latest?

Dinosaur 42K
Have you seen a work plan

Have you been getting analytical
from me?

per 8.13.99 telecom JK

DV schedule Dinoseb area
work conducted after hours at night on weekends

Sept 4-10 site char. & removal of all equipment from quarantined area

~~Sept 24 - Oct 1~~

Oct. 1 move sampling

Oct 13 remediation (excavation) & disposal (hauled to incinerator)

Oct 31 Dinoseb work done
ie all contaminated soil disposed of

Additional (diesel & petro) GW sampling
money is released work will be done

telecom is 10am Fri 27th
(9-11)

Marcie knows about all this and is comfortable apparently

JK

~~Dinoseb~~

overall - talk to M, listen to her and provide her reassurance

in general EPA can ~~resist alot of~~ not stand alot of tribal dissatisfaction without thing deteriorating

Dinoseb

M

Workscope design vs char is what we agreed to

inadequate because it addresses only site char.

cost

task secur, dont let consultant be in drivers seat

timing

school year - what steps can be take work after school, weekends, BMPs

try to get char done this FY

idea of expediting entire workscope by doing charn, remo, disposal at once

Additional ~~Sam~~ GW ~~in~~ chare wherever we

telecon 27th 10 am Fri 27

John Kramer telecom topics
relevent to 7.14.99

per Marcie telecom of 7.7.99

(1) · Can Secor send another field ~~up~~ activity update
Haven't seen much since PC area work started up again

(3) per LTB PATs of 7.12.99

· ~~[illegible]~~ was Dinoseb exposure issue resolved with Cherkee employees

· Dinoseb work EPA vs Secor
factors OSC
timing
money
Marcie - other IAG tasks

(2) per Dave Taylor
How many more PC samples will be sent to EPA Lab and when? — call Secor

Marcie telecom topics
as follow up to 7.7.99 telecom

· update on John K talk
- Secor update
- maybe dinoseb work

· Where are analytical or this week and talked to Rich Bauer - more ~~[illegible]~~ results will be sent out next week, will come out in drips & drabs, paper work compiling issue not data validation

telecom John Krause

7.14.99

(1) He maintains there was an e-mail on 7.9.99 covering events to 7.9.99 it was sent to Marcie and I, I haven't recieved it, he will fax it

(3) ~~He got messag~~ Marcie told him IAG money must be used on existing tasks he accepts that

I stated timing & money issues

He is still waiting on the Secor proposal, that will clarify money, then maybe some comparison with a EPA OSC cost

He did not state a preference either way

(2) Call Secor

*telecom Marcie Duck Valley

7.7.99

Action items

- Call John Krause ask if Secor can make another weekly/biweekly field work update (status report)

- Marcie needs a copy of 94 (Bird Shipley Dan Shane stuff) dinoseb reports but she will try to get them via John Krause first only then will I ask Dan Shane again

- Ask Dave Taylor when they can expect to see analytical back from Lab. She understands lab has backlog

See LTB ~~Laura~~ comments 7.12.99

Update on unresolved items

- factsheet = resolved see above

- R9 involvement in Dinoseb effort = she prefers using IAG money as originally planned (ie not dinoseb), she will discuss with John

See LTB comments

- SIM analysis = resolved she agrees this analysis is not needed

- 94 site char report = see above

Not lab but OSC lab was to police Secor ~~[illegible]~~ if there were continuing QAQC problems with samples OSC would do char. work

- Marcie got Johnk to issue a change order to dispose of an additional amount of PC soil

news items

- fact sheet will be printed in newspaper local

- A site char. work plan by Secor for Dinoseb area will be circulated soon

- She will set ~~up~~ a telecom for next week by Johnk or I would have to sort it of

Marcie 7.7.99 Marc 775.757.3211

Check in

~~recent communication~~

last talked to John one week ago

topics

✓ fact sheet

she would prefer using that money as originally agreed with John

forth coming about that as unresolved

- issue of R9 involvement in Pinoseb work (you might talk to him) but IAG money is resolved he would have to pay EPA some other way

✓ diesel work stated again

Not necessary

- SIM analysis selected ion monitoring

- copies of ~~96~~ 94 site char. report

6.29.99 per Alsa on V email

She is forwarding a message from Brad Shipley as follows - I (shipley) can characterize site but D. Shane said he would perfer BIA to do it. There is IAG money left

At present he has no plans to go to Duck Valley, but he could go out to look at the site

Alisa says see what John Krause wants*Δ to do. Alisa suggest that Brad stop by site if possible

* per a 6.24.99 telecom with John

he asked me if RA (lab) can get involved with Dinoseb sampling and analysis

7.1.99 Dave Taylor telecom

His impression was that tribe and BIA had concluded a agreement on how the IAG money was to be spent. He said it is not our decision.

Δ per a 6.24.99 Laura email

Dinoseb clean up is not lab personel

for clean up BIA will have to pay either us or Secor

Duck Valley Conf Call (800) 759.7243 Dan Stone

14 June 1999 PIN. 2832864

Attendees: Secor, CG, BIA, EPA, Tribe

- 1970's BIA knowing that BIA did use the shed for storage and chemical mixing in this time period.

- Doug Martin - have confirmed approx levels of Dinoseb at 50,000 mg/kg - 50 ppm. Levels of 2,4-D have also been detected.

- BIA wants to take over the contractor to Secor

- Act Dan to get a copy of Duck Valley clean-up project from several years back.

- Dinoseb is about 6"-1' deep. Extent - unknown, but the entire shed is suspect. Not on the surface.

- Level B, then downgraded → probably ? during previous clean-up.

- 2 Cherokee General employees are complaining about suffering from dinoseb exposure. Recommendation was to have them get check-ups.

~~Call Dan~~ Stone (Anthony will take care)

- No BIA and Cherokee General staff will be in the field tomorrow

- Pete / Ann
  (775) 738 4710 fax info to them to get a copy of Dinoseb clean-up report

- The site will remain closed until health monitoring is conducted of the staff who were exposed and Secor submits a plan to isolate the area.

- Jim Smith, Eastern Kinetics Office → will be the local contact

Next call: Thursday 10:00 PST (775) 738-0590 Pete Lahm

SECOR - Subcontractor

Doug Martin, Principal for Carson City Secor Office (775) 884-4561 x-222

Jeff. project manager JCollins@secor.com x-224
Secor analytical services

Brian Bess, field technician in Owyhee, Nevada

Todd Leonard, manager x-225

Cherokee General - principal contractor

Mark, field staff

Rhonda

BIA

602 379 6750

John Krause, BIA project officer 602-379-0750

Will Blossom, BIA employee in Owyhee, Nevada

Jimi Smith, chief Mills Eastern NV Agency BIA, Roads Maintenance

Ann Adams "

Pete ~~Layfey~~ Layfey - E NV BIA Agency

Tribe

Marcie Phillips, Environmental Coordinator

~~775-884-2055~~

~~702~~ 757 3211

~~775~~

775

Dan Shane in traylor
520 796 5404
5403

Marcie Phillips - SECOR work
7 June 1999

Injection well area - Marcie felt like the contractor dug in the wrong place to take the Soil Samples. She identified a pipeline which was probably the end of the discharge line further east. In the place the Contractor took soil samples, it appeared to be clean.

Excavated Soil - Marcie has told me that she has heard unconfirmed information that the PCS being sent to the landfarm are at ND levels.

Conf call patch in 8 June 1:00 MST (12:00 Pacific). Marcie will call Hillary on his desk.

Duck Valley 2 June 1999
· Rick Bauer - R9 laboratory

- The contractor is not doing a good job with shipping the samples. See Rich's 2 June e-mail detailing the numerous problems. The samples which came in were for characterization so the information is still valuable, but not defensible data for litigation.

(A) Talk to BIA regarding data quality of samples that have been received.
(A) Talk to Secor regarding transport of future samples

- Basic problems : Packaging, temperature, and timing
  - Packaging → Broken bottles
  - temperature → 4°C
  - timing → hold time

3 June Conf Call : BIA, Tribe, Contractors, EPA

- Secor will (1) package fewer samples per cooler. (2) And will look into alternative shipping arrangements. Jeff will get back to me with this information via e-mail on 3 June.

- BIA (John Krause) will be at Duck Valley 7 June. Will patch me in via conference call at 12:00 PST.

- Cancel 3 June call.

- The remainder of the week, excavation of PSC will be done. Decap of area N of ~~[illegible]~~ road shop done. Will start on discharge line (injection well) next week. Still need BIA to remove asbestos before Secor can enter road shop
- Projected to finish end of next week.

John Krause
602-379-3833

Richard Bauer
06/02/99 08:51 AM

To: Alisa Wong/R9/USEPA/US@EPA
cc: Laura Bose/R9/USEPA/US@EPA, Gail Jones/R9/USEPA/US@EPA, NancyJ Wilson/R9/USEPA/US@EPA, David Taylor/R9/USEPA/US@EPA, Brenda Bettencourt/R9/USEPA/US@EPA, Ken Hendrix/R9/USEPA/US@EPA, jcollins@secor.com
Subject: Duck Valley Samples - Data Quality Issues

We received 78 samples from the Duck Valley project last week (30 soil, 48 water). Some issues were brought to my attention regarding sample handling, preservation by the samplers, and sample prep here at the lab. These issues may affect data quality, and may or may not (depending on project objectives) make the analytical results inadequate for their intended use. I'm writing to inform you of these issues so that we may know how to proceed.

1) Sample temperatures upon receipt were above the recommended 2 - 6 degree C for all but one shipment of seven soil samples. All other sample were between 10 -14 degrees C upon receipt. Samples were packed in large coolers with three or four small blue ice packages, which had melted by the time they arrived at the lab. Some coolers were obviously several days in transit.

2) Many samples arrived on the fifth or sixth day after sample collection. The holding time for extraction of water samples for TPH-deisel and for semi-volatile organics analysis is seven days. Forty-five water samples were designated for TPH-deisel analysis and twenty-one water samples for semi-volatile organics. Including lab blanks and lab QC this comes out to over seventy sample extractions that needed to be performed in one or two days. **Extraction hold time was missed for four samples for TPH-deisel.** No extraction hold times were missed for semi-volatile organic analysis. However, any re-extractions that may be necessary will be done past hold time (hopefully we will not need to do any).

3) Sample containers were poorly packaged and quite a few sample bottles broke in transit. Some of these broken samples were highly contaminated with fuel hydrocarbons (strong fuel odor and visible fuel residue in the cooler). The samplers were notified immediately and attempted to package the last sample shipment better (with bubble wrap rather than just pieces of cardboard between the bottles), but a couple of broken bottles were still received in this last shipment. In all about 11 or 12 broken bottles were received. Duplicate bottles were received for all the broken bottles, so analysis for these sample locations is proceeding. Although the other sample containers in the coolers were tightly capped there is increased possibility of cross contamination due to the broken samples.

4) Soil samples designated for TPG-gasoline were received in glass sediment jars. Portions of these samples were preserved/extracted with methanol as quickly as possible at the lab, but many were received 5 or 6 days after sample collection, and at 10 - 14 degrees C. Significant loss of volatile fuel hydrocarbons is possible.

Other issues which may or may not affect data quality or defensibility: a) no custody seals were used on the coolers or samples; b) thick layers of sediment are present in all of the groundwater samples. Samples for metals were not filtered prior to preservation. I don't know if this makes a difference or not with regard to how the data are to be used and what the planned procedures were; c) on the chain-of-custody documents the samplers request both method 8270 and CLP SVOA and have sent bottles for both. These are essentially the same analysis. We are performing method 8270 only.

At this point we are proceeding with all analyses. Please let me know as soon as possible if you have any different instructions for us.

23 May 1999 Conference Call

EPA - Alisa Wong
Tribe - Marcy Phillips

Attendees on the Call: BIA - John Krause Cherokee General - Ronda and ~~Gary~~ Garett Hale Mark Koenning
Secor - Todd Lenard, Wilt Blossom, Jeff Collins Hershal

Subject: Update on Duck Valley clean-up project

~~rond~~ rhoda @ cherokee general.com
503 661 - 1113
669 9085

Secor / Cherokee General
775 757 - 2054
phone, fax

- 19 feet down before they hit ground water.

- Cherokee General / Secor are reporting to Wilt Blossom and Marcie Phillips have been updated daily. Jeff is the facel contact. Leave messages with Marcie at the tribal office.

* The ~~early~~ entire pipeline has been removed.

- 16,000 tank was the start point → contamination was found, ~~as~~ Maps provided by BIA were not completely accurate.

~~L-16 section part of the pipeline~~

L-22-25 don't seem to exist.

UST @ U-12-13 bottom had been corroded out, heavy staining.

10 gw samples/day w/ geoprobe - $1500 geoprobe/per day + labor costs

At ~~DS~~ U8, trenched until 23 feet and still didn't hit ground water. At about 16 feet, contamination is moving horizontally through soil. Have not hit gw.

Between L-13-17, heavy contamination. Excavation is 19' down and gw hit.

L-3 heavy contamination, possibly from AST @ tribal maintenance yard.

Change order Proposals:
1. Additional excavation at L-13 area.
2. Ground water level measurements done by geoprobe.

Area around Well #5 is heavily contaminated. The geoprobe work is moving to optional area now. The contamination is being found north of the Well #3 pump house.

ABC samples don't look or smell too bad.

In the coming week, will continue excavation until 1,000 yd^3

23 May 1999 BIA, John Krause

- Work started on Thursday (20 May). Contractor didn't integrate task line when it was removed.

- At BIA Road Shop, a telephone poll was knocked over. 1
  Jim Smith, at BIA Road Shop. Contractor is requesting BIA to move tanks

- John talked Doug Martin. Doug didn't seem to know what was going on

- SEOR: Jeff Collins in the field; Doug?
  Chuckie General: Ronda Hensel - not in the field

(A) Need to develop a chain of command.

(A) Need weekly updates

(A) Distribution list for information distribution

Conference call today @ 3:00 pm

24 February 1999 Duck Valley

Rich Bauer
Dave Taylor
SECOR: Doug Martin
Jeff Collins

~~Alpha lab~~ Problems:

- The number of samples - does this exclude samples to Alpha. R9 confirmation samples / Alpha screening } Is this Secor's understanding.
- Screening - what does this mean?
- Screening method has proven not to be effective
- 5035 methanol preservation for VOC not GRO

Diesel GRO = 100 ppm

GRO = 100 ppm

Send action level to Secor again.

8260

- Send protocol for 5035. → methanol w/ sample container.
- 2-4 weeks after snow melts will start sampling.

Doug Martin, SECOR

Duck Valley – 22 Jan. 1999

- Authorization to proceed was not issued yet.

- BIA needs to issue this to approval for SECOR to proceed. Gerald, BIA contracts, needs to issue this.

- Will work to have amendments by Friday, Jan. 29.

- SECOR will call Cherokee General to see if they can start today.

John Krause, BIA

- Discussed

Duck Valley - John Krause

Oct. 20, 1998

Cherokee General Corp. : contractor ~~Ronda Hersall~~ Ronda Hersall (one person on site full-time)

Secor Int'l Inc. : subcontractor Doug Martin

Jeff Blum

- petroleum contaminated soil removal (psc)

  $301,000 estimate + ($25/cubic yard)
  unpaid $ $6K for ~~asbestos~~ injection well work should have been $60/yard³
  $1

- proj. surveyor additional $1500 - $2000

- tons - measurement of PCS Bid per yard or tons > need conversion rate.

Duck Valley - John Krause

Oct. 2, 1998

- Cherokee General (Indian - owned office) $307,000
  sub- Secor in Carson City
  ~~[illegible]~~ 1) facilities $57,000 > went to 2) Roads $150K ~~[illegible]~~
- Oct. 15 in Owyhee
  Pre-construction meeting
- Get EPA laboratory staff to support sample oversight.
- Gale will count samples and get back to me.

Oct. 15, 1998

- Chris Prokop, UST program
  $ for project } Phoned Walt Eng. 10/20 X-
- Tank closures → ~~[illegible]~~ closed
  tanks → need sampling
- Drinking water wells - initial sampling 1, 2, 3, 4 not used for PWS

(*) • J. Krause does not want to eliminate any sampling points or analysis
BIA will find $ if necessary to complete all sampling.

P

Nov 2, 4, 6
Reno Elko
Vegas

RDC

Renee Dufault 4.28.98

Magnoter survey last week. Lines were not where maps have previously indicated to be.

- Sampling with start this week. R9 Lab has been notified of sampling

Need to find sampling class for D.V. personnel. Can only attend classes in June.

- Renee will be with tribe through June.

John Krause 4.24.98

- Verbal ok has been given by BIA HQ for full amount of funding for the clean up project. Phoenix Area Office still awaiting transfer of funds.

- BIA contracts will not initiate contracting process until written guarentee of $ is recd.

- Looking at late June as start date.

Duck Valley Reservation

Renee Dufault, March 2, 1998

- Funding for soil sampling, BIA is ok w/ paying extra.
  Anticipated costs $28 K.

- Timeline April

- June will be when Renee is leaving.

- Solid Waste specialist, for the Tribe.
  ↳ Marcy Phillips

40' Haz Whopper
UST

(AA) Needs QA Training.

April 9 1205 2-4:30 Duck Valley Shoshone-Paiute.

John Krause March 6, 1998

- Notified John of Renee's June departure and the QA training we will be having which the Solid Waste Coordinator will be attending.

Dec 11. 1997 John Krause

- Funding – BIA allocation awarded just 2 weeks ago

- Expect to have funding by early Jan, but solicitation was canceled

Tribe – R.D.

- Wants EPA to develop a schedule for BIA then fine them if it isn't met

Says Tribe is however willing to delay start date of wp in order to address/incorporate technical concerns.

Dec 8, 1997 "Duck Valley - ROC"

- John Krause said the Duck Valley contract was cancelled in response to the letter from the Tribe. BIA will need to re-propose the "solicitation" contract for bidding.

- Asbestos was found in Road Shop. No work can be done inside the Road Shop until asbestos issue is resolved.

- BIA has still not spoken to the Tribal Chairman or Administrator yet. BIA has written an internal confidential memo he will send to me

- Decided to fax letter and speak in several days regarding possible future conference call

Dec. 9

Received call from Renee Dufault - told her that EPA will contact her within several days regarding conference call with BIA.

Dec 10

- $100K left; $80K will moved to another project

Mtg.
- Options

10/4/95
3:00pm

- John's preferred path
- our concerns / potential to not complete work
- UST participation / follow-up
- Milton's IPA

- closeness of site
- don't want to clear to have others still pollut

No matter what do the high priority items first.
Don't go through the OPNAP group → don't send them stuff.

Draft letter from Alexis to Laura
please assign someone to work w/ school to inspect / clean up
- don't want to clean up & have those still working

or

DRC represent both of us

reference April letter & no response from school
b/c this continues to be a problem it will affect us. Please let us do it or assign someone.
The person should deal through Chris

& Texaco station - ongoing sources
are there other tanks.

- positive multi-media spin - coordination between divisions

Phone Call
John K
Frank C.
Alisa W.
Cynthia J.

9/11/95

Frank's address on travel:

Clean-up standards

Walter Guggenheimer - site plans to go out to DV
ok w/ reducing # of samples along pipeline

what type of series do we want them to use for dw
8000, 600, 500? 415.1
for well monitoring, what minimum standard

- would it be handy to take a near surface - depth sample at wells 1 & 2 to see if there are LNAPL & DNAPL.

- workplan final (80% final) this week.

Should we talk about the contracting for this project?
USE probably not eligible.

Bill Buck may have to join our call on Friday.

Phone Call 15 September 1995

Duck Valley

John K.
Frank C.
Alisa W.
Cynthia S.

- Could not include appendices -- maybe have them separately as an attachment

- SAP → almost done
  doesn't have some QA stuff in it.
  * will send it to us electronically

500 series - lower detection limits

methods
TRPH 418.1
TPH 8015 modified
breaks out ranges
↳ better to use → otherwise might break equipment
for ~~AST~~ - 8020

only need one sample at each location?

analyte list
TAL list → 26 common metals
would that suffice for our needs

Soils along heating oil pipeline → do they need to be tested for TCLP.
Wanted to do one TCLP for the whole aggregate pile for each source
3 source soils: pipeline, injection well, parking lot

8 RCRA ~~[illegible]~~ metals

method

8240 — voas $250 — concentrated toward injection well area

8270 - semi-voas $400

825 — for voas in dw wells
524.2 voa
525 — semi

Richard ~~[illegible]~~ Grotzke, same address at BLM but mail code: D-8160 500 series - in dw wells

~~[illegible]~~ at BLM

head space analysis

~~used in our sampling~~
25 ml purge + trap

BIA, Portland, OR
Assoc. Earth ____
drilling to find sources of irrigation water.
starting probably in October

are they doing geophysical logging

Frank in Ohio work (216) 528 0703 Krejci Dump Site
(216) 656 1252 Holiday Inn - EST
Hudson, Ohio
between Cleveland + Akron

a few days call before we want a conference call to set it up
1:00 our time would be good

BIA, Portland

Meeting w/ Clarice Olson
Cynthia
Alisa

9/15/95

T/C 9/29/95

John moved $17,800 to tribe for water level monitoring

IAG was signed 9/

John's guess

Phase I

$250,000

55,000 { 37,200 IAG
+ 17,800 tribe - monitoring

+

85,000 200,000 bid estimate?

(-165,000 for Phase I) 285,000

BIA will go through and do a more thorough cost estimation

have $85,000 left - need more

he may be able to talk them into it b/c ~~the~~ BIA needs to do these things anyway

10/2/95

- John K. doesn't want to have to revisit anything later

- doesn't know how & when or how much $ will be allocated from central office DC
+ Albuquerque

don't have a restoration budget / no line item budget.

he doesn't know or have influence over this project idea.

- stop gap measures
+ then start sap/nop.

look into ww # 4
- capacity
- how long does it run

when will it be built
how " sited?

will they shut in #3 as a precaution

Sign-In Sheet

8/30/95

Name	Agency / Tribal Position	Phone
1. Cynthia Sans	USEPA - UIC section	(415) 744-1837
2. Alisa Wong	USEPA. -	(415) 744-1842
3. Will Pack	" - Drinking Water	- 1849
4. John Krause	BIA/PAO - Hazardous Waste Coordinator	602-379-6750
5. Frank Calcagno	Reclamation - Denver, Geology	303-236-6904 x 253
6. Joe Winkelmaior	IHS	702-738-8056
7. Herman Atkins	Sho-Pai Tribes	(702) 757-3211
8. William E. Beck	Sho-Pai Tribes	(702) 757-2921
9. Ed Decher	MSE	208 3839506
10. Nathan Bacon	Sho-Pai Tribes - Water/Sanitation Manager	(702) 757-3211
11. Alvin Wilt Blossom	BIA F-M	702-757-3185
12. CAROL JONES	Sho-Pai Tribes (Adm)	(702) 757-3211
13.		
14.		

Mtg.
Frank
John
Dusa
me

Herman Atkins - Tribal Administrator 8/29/95

Mtg w/Matt Small
1-3 9/5
discuss potential remediation techniques

PRIORITIES

1. DW well #1
   - plug through top of confining layer.
   - geophysical probing to determine aquifer characteristics & existence of confining layer & construction?
   - can IHS help w/this

2. FUEL OIL PIPELINE
   - sampling - reduce?
   - excavation - do less?
   - BIA may want to remove whole main fuel oil pipeline
     - can they grout sections that aren't contaminated / not very contaminated
     - pressure testing?

3. INJECTION SYSTEM
   - pressure test lines
     if they had, grout it
   - maybe just excavate the outside bldg. portions (BIA wants to) and grout the internal portions

P2

8/29/95

4. Closure of wells at BLDG 332 herbicides pesticides
- minimal

5. AST Gasoline

MONITORING WELLS
How many?
At what stage of the work should they be drilled? → Not until we have some good information

Ask Matt - section D of the order (pp 1-12) = what level of investigation can we accept if they can't afford to do everything

Can we model the info? map the contamination to save them $? would we legally want to?

* Talk to some RCRA people (Bridget?) about the necessity to take TCLP samples along the line.

* Does a PID work on Diesel, Heating fuel oil

Mobile lab → GC only? for field screening

8/25/95

Pre-Inspection Meeting

Matt Small
9/5 or 9/8

Conference call w/ Matt + Frank
remediation options

Matt Small
Marvin Young
C. Jones
A. Wong
D. Bothwell
C. Leiter
W. Guggenheimer

Conference Call

Alesa
Cynthia
John
Frank

- Bldg 552 - who owns ... excavation plans
- incorporate Bldg 332 into 1431
- Planned inspection
- include Bill Beck in conference calls
- EPA meeting

Conference Call 8/14/95

John Krause, BIA
Cynthia Lowe
Alesia Wong

John said no problem with Bill Beck being involved in work plan dev't

John got a call from Alan Croft, director IHS, (Division of Environmental Protection Services) → Phoenix Area Office (602) 640-2046 → had a few issues.

well #1, maybe 2

he approached tribe and they want to grout the wells closed.

IHS didn't have a timeframe

tribe gave a wishy-washy no, too

soil excavations are going to cost a lot

will the road shop continue to be operational

Need for 2:30 in reference

FAX 602 379 3833

FRANK CALCAGNO ~~303 236~~ 4711 Home 303 932-2157 3:00 – 4:00

D Point A – one sample at 2' below joint of drain line and sump.

New Samples

F-1 Point 1 – Elbow of drain line @ 3' below the drain line and at the top of the water table.

F-2 ~~Point 2~~ –

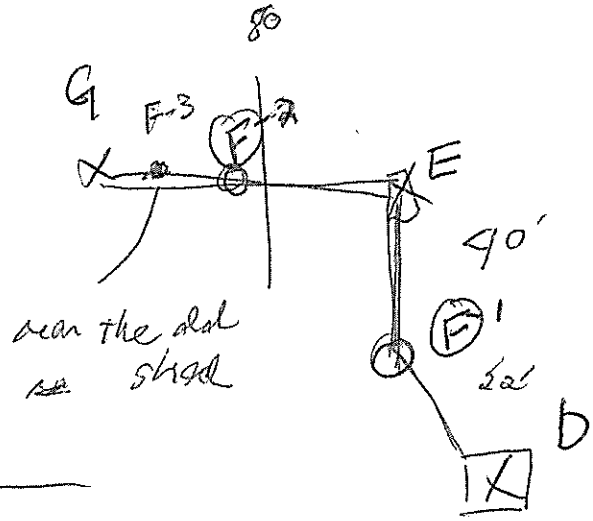
E Point B – Vertical Pipe – 1 sample

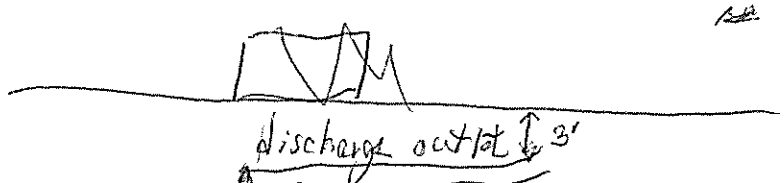
Add samples

F-3 F-4 New sample

Point 2 – Vertical Pipe outside the BIA Building.

G Outlet.





3' 2 samples

8' Change this depth to the top of the water table.

2 samples (this sample should hit ground water

Conference Call:

John K, Jeff B, Mary G, Dave T, Gale Jones, Alisa.

A+E
Dames Moore
CH2MHILL

RE: QAMS Comments to DV WP.

(?) Ask D. Taylor for some contractor information. What type of company should we hire? (Env. counsult., engineering firm remediation ....)

- LNAPL's → write instructions on chain of custody to let lab know. where we going to take the sample. Water-oil ~~interfa~~ indicator. At the top of the aquifer, oil-water interface, middle of contamination; beneath heavy contamination? This? needs to be addressed

- Region 9 will do data validation.

✓ Send John (see comment #6/p.16) "Guidance for DQ ...."

✓ Vance Fong's signature block on QAPP.
Alisa's Wong's signature block.

Suggestions:
- Laboratory section to do an audit.
- EPA should be involved in Statement of Work.
- Weed out contractors by setting equip. requirements.
- J.B.R. Consultants.
  M.S.E.

✓ It was agreed that SOPs that are required by QAMS will be submitted by contractor who will be doing work. Workplan approval will be conditional until submital of SOPs. This will allow BIA to move the workplan through their internal contract process w/o having to find more money to finish the WP.

7-29-96

Order

1. Cease Disposal #17

2. WP (30 days #21-32)
   A. location of drains (21)
   B. describe proposed method & removal of contents of disposal well (22)
   C. If not RCRA? (23)
   D. Soil samples in area around disposal well #24
      4 samples { 1 : 6" below floor drain in main bldg
      3 at point of discharge 3', 8', 12'
   E. Describe how disposal well + floor drains will be plugged + sealed (#26)
   F. Test 16,000 gallon tank for integrity #28
   G. soil-gas survey (#30)
   H. quarterly sampling of dw wells 1+2
      monthly " " " 3 #32
   I. install mw #33

3. WP 60 days
   A. info on construction, etc. of wells 1, 2, 3 (#35
   B. hydrogeology of area (#37)
   C. delineate boundaries of gw, soil contamination + sources. (#39)
      outline plan to.
   D. plan to clean-up + remediate site (#40)
   E. proper storage & disposal of our activities (#41)

Frank (303) 206 6104 ... geologist 7/26/95

Conference Call w/ John, BIA engineer + Frank Calcagno
- building was constructed in the 1940s
- don't know the purpose of the vertical pipes in the north shop area
- its a vertical drain

- don't know if drain is still being used
- 3-4 people work in roads maintenance
- doesn't know how much diesel is used
- AST is double-lined
- shed structure (old one) was demolished
  don't know what shed was used for but will ask
- wellhead was 2-3' beyond the shed to the west
  there is some gravel over it

well #1	30 hp	1980	1hs
2	75 hp	limited info	limited data not sure where casing is.
3	10 hp	after #2	

Frank
- study log
- do exploration

John
trying to work out an IAG w/ BOR to do help develop a WP (20k) 15k to tribe to do monitoring of the well.
$35K

also
85K from construction
requesting
200K

developing workplan well

- QA/QC plan will be submitted along w/workplan comments re: BIA 7/19 co 7/24/95
- talk to John:
  - requirements of order
  - qa/qc
  - sampling of wells #1+2 (agree on minimum. all 3 at once #3 - as in order #1+2 -
  - depth of wells.
  - monitoring well required in ¶33 should be in the workplan + completed 6 months after its approval

- if we can't get info on the formation, etc. we may have to amend the order + require installation of an additional monitoring well(s).
- how many lines come out from the sump. the first map (from some months ago) drew a different line (straight out from the drain) + now its much further to the north what does that
- how many samples of the sludge and liquid do we want.
- sample under sump 2, too
- their RFP should require experience w/RCRA.
  all samples must be tested according to RCRA
  2, 23, 24, 25 + 26 is "oil + grease" the same as TRPH. we want TRPH + TPH.
  what does he mean by "all sampling locations will be surveyed"?
- a map of sampling locations
  - surface
  - cross section of formation
  required a sample in ¶24 which he says they will "possibly do"
  th + safety plan from contractor.
  where the drums are ~~the~~ of the material that have already been removed
  al of drain liquid
  they mean liquid or then sludge will be removed?
  o will remove it?
  - safety plan?
  - contractor or BIA

- how much maintenance occurs at the shop?
- need to ~~address~~ sample below discharge outlet before separating soils
  sample to the top of the aquifer
  sample according to the order

*[p.8 (5) steam cleaning the line ~~+ then~~ after removing it?
what if its hazardous waste?

p.9 d. what are the "cores" they are "conducting"?
why are they concrete?

why is it being tested for integrity after its removed?

why are they doing integrity testing of this and not the pipeline when this is what is required in the order.

p.9 (g) take a sample at the top of the aquifer too, if at 5', 8' + 12'
12' maybe in the aquifer, but we want one at the top of the water table also.

p.10 (h). pull it out as opposed to filling it in?

p.10 (1) "as practicable" — no → contaminated soils will be removed.

Tim [redacted] w/ John

Meeting w/ Cynthia (07.24.95)
RE: DV Workplan

1) Requirements of the Order. 'feasible'

2) Sampling of well #1 & #2 ——→ ① all 3 to initial levels
② #1 & #2 will be sampled further upon request.

3) Characterization - depth of wells

③ monitoring well - plan for well should be in workplan. Work on monitoring well should be completed ≈ 6 months after the finalization of workplan.

* If at some point in the future we need more info, get them to install more monitoring wells.

? Is there more than one line going out of ~~tank~~ sump. Our map shows a line leading directly west to another sump.

? How many samples are you going to take of the ① waste in overpack ② sump ③ at sump #2.

✓ Sample under sump #2 as well as sump #1.

✓ RCRA analysis must be done on all these samples

? d - 3' above ground surface

NOTES

Paragraph 22-26 Response.

✓ Specify all sample points now!
✓ TKPH included in sample analysis

Can use a map to indicate all samples.

? Location of removed product

* Pat Eklund - call and ask if she wants us to investigate anything at DV.
Integrity test for pipeline.

(2) Is BIA planning to remove ~~sludge~~ liquid and sediment themselves or have contractor do this?

? Why is it full again? How much work on car get done these per day?

? Discharge Outlet samples needed before excavation. Sample ~~it no exceed AOI~~ according to Order.

(5) NO! cleaning necessary

(6) Why prior to the cleaning will you clean up the floor of the maintenance building.

(c) if you are removing the liquid and sediment, then you don't need the integrity test. The entire floor of the BIA building (d) will probably be excavated.

? Clarify "core".

(g) we want 3', 8', 12' and at top of aquifer

✓ Add → Acceptable alternatives for disposal of used solvents and

(h) NO

✓ Sampling ~~at~~ below discharge line as prescribed in the sample.

? Smear - what is that.

P.

John Krause (07.17.95) MISA's Notes.

Phone Call from.

· Wilt Blossom main contact person at BIA Facility. The sump was emptied (not known if it was completely emptied). But now it has filled up again - what is in it now and how did it get there.

Theory - Water might have flowed backward from discharge outlet.

- 765 gallon contains sump.

Bill Beck (07.18.95)

Would like to be kept informed about the §1431 status.

Bill Beck (08.04.95)

Spoke to Bill after Clavier Olson informed UIC that Bill was unhappy. We will included him in future conference calls w/ John & Kevin.

4/19/95 AUBR Notes

John Krause Conversation

Cynthia - John Krause
602-379 6750
(520) Bill Beck

- Central office is proceeding request for clean-up funding
- Did study on source of contamination - Oct. 1993. But nothing more recent.
- Time frame: will start receiving info about money in 2-3 weeks.

- Should be getting fund, but how much is uncertain. Requested $:
  1. independent evaluation -> wants to consult w/ contractor - $10,000
  2. investigation UST - $10,000
  3. removal of subsurface soil - $25,000
  4. monitoring well $40,000

$85,000

additional $85,000 requested for unexpected things.

Area Facilities Manager, makes decisions about where money goes

Money Requested in February

Joe Bitsie - Area Facilities Manager
602 379 6755
Phoenix Area Office
Attn: Facilities Mgmt.
PO Box 10
Phoenix
85001

1 North First St
Phoe
85004

DUCKVALLEY (01.13.95) ALISA

1 of 5

Conversation w/ John Krause

602-379-6750

- outlet 3"
- drums in shed, consultant chloride detect test in April.cr
  - lubricating oil in the drums were found.
  - empty ones were crushed and left on Facilities will await contractor to dispose
- Bldg # 332 irrigation shop - separate from EPA §1431 E.O. - BIA having contractor do work here too. This contractor also worked on drum area. Contractor: MSE Inc. Contact: _____
- This contractor will provide report and recommendation to remediate shed and drums to BIA.

- Lately Feb. the maintenance crew pumped out the material. But now, rain water (?) has filled the sump again. Rain season Jan-March.

Concern The drums (5) are now packed in 85 gallon overpacks, top of the drums are open.

- The sump is connected to a line going north-west (not west to well). Apparently there was a former structure at this point where they think the line leads.

will send fax w/ diagram

~~4" dia pipe outside sump southside~~

~~northside 2' ft. down.~~

discharge point to (4-5' ft deep) facility is 80 ft.

- Wanted Bureau of Reclamation to have a geologist look at sump.

- 5'-10' discharge outlet to top of water table.

- Area west of facilities 5 ft. away from bldg. Went 3 ft down and black-oil substance still present. No VOC they think but contamination goes down deep.

concern Pipeline will be completely taken out. There are feeder lines going out - these will be pulled out too. They do not want to do integrity on pipe-line - but I told them O.K. if pipe-line is empty.

~~Wed 19th, g~~

Duck Valley Bio Team:
① Bhailal Patel, ② John Krause, ③ Frank Calcagno

Fac. Manage
↓

eng / geologist
↓
Bureau of Reclamation
Denver Office

3 man team for Duck Valley

- #21 - ~~as~~ working on it.
- #22 - proposed sampling plan.
  Bureau of Rec will provide QA/QC of samples.

- ~~the~~ Pump-drain line / drain (sump)
  Excavate til hit discharge line
  " til discharge outlet.
  ~~Breach~~ Cement off.
  Pressure test the line for integrity.

- excavate a 6' dia hole around discharge point.
  roll out boxes.

- Will not do a line test on pipeline - will just remove it. the 16,000 ~~gal~~ tank is not a UST. Told them to have contractor include in work plan. Any excavation must ensure that if any product exists in the pipeline, it is removed first. Tank must be checked also

June 19, 95

· Briefing to Area Director on 19.06.95. At this meeting discussed having Tribe involved. But John ~~believes~~ suggested not have Tribe involved with oversight and contracts

· Will install monitoring wells sometime.

Feels monitoring wells will be more useful than Sampling Well #1, #2 quarterly

· Bureau Reclamation will do #32, #35, #37, 38, 39.

Monitoring well will be planned later when more info. on the formation is available.

· 8240, 8270 water sampling. } to expensive after a while so they want to change sampling after characterized.

8015 modified —

· Sources (1) NE corner AST 200-250 gal gasoline

(2) School UST

(3) Texaco UST

595

Timeline

- will send something on 07.19-95
- Aug. 19 the entire workplan.
- Aug 29 EPA finish comments
- ~~Sept. 10 BIA w/~~
- Sept 30 workplan will be funded. Urgent path.
- Oct. site work will start.

- Funding did get approved, but ~~$200K~~. the amount is uncertain yet - ≈$85K, but working on more.

- John will be here Aug. 8 & 9 and if need be on the 10th to talk about Duck Valley.

4/03/95 DUCK VALLEY (702-757-2921)

Bill Beck, Tribal Member; Tribal Health

4/5/95 AW

- BIA → took old test results and started re-evaluating them to form recommendations (Dec 1994)

1/ Further characterization of plume, geology & hydro-geology.

2/ BIA, Elko, and private owner of UST, AST should examine for contamination

3/ Pipeline - 1988 was tested for integrity and was still sound. Removal must be accompanied by soil sampling under pipeline.

4/ Any owner of wells, drain lines..

5/ Plan for potable water supply for community.

- ground water monitoring.

* School wants to use water from 7.5 & 30 hp wells to be used for irrigation

- ID alternative source of water.

- cont future use of 10 hp. well. But if contaminated
  - a) water treatment
  - b) alternative
  - c) discontinue

- 7.5 & 30 hp for non-potable purpose.

- evaluates cost of water treatment.

BIA - John Kruse (602) 379-6750
contact

Current status :-
Plan finished in Dec 1994.

Talk to John Kruse.

→ Bill Beck →

May 22, 1991

Memo to Bridget Coyle
From Jean Daniel (H-4-3)

Re: EPA inspections on Tribal Lands of Nevada

Just spoke to Kevin Ryan of Water Division (+ Jane Diamond) about scheduling inspections in area of Ft McDermitt, NV. He tells me he has been talking to you about several sites since my last conversation with him.

I explained that I'll be in NV the end of June - early July and am planning to conduct RCRA inspection in Fort McDermitt area. He recently did some there for Water + there was a slight chance for a multi-media effort @ RIO TINTO MINES. I understand that his sample results do not demonstrate a health risk is apparent so he is not telling me that any site except Duck Valley may have RCRA problems. You have some info on Duck Valley. If you would like me to inspect there, please advise.

Please keep me in mind as you lead future discussions with Kevin. Thanks.

cc: Jane Diamond
Kevin Ryan

4/1/91

Note to Jill Kouts
From Jean Daniel (4-2128)
Re: Travel to Nevada

Hello -
Roccena Lawatch suggested that you might advise me about traveling to FT McDERMITT, Humboldt Cty., NV, to conduct RCRA inspections following up on tribal complaints. She said you've been in the area. I may be going in June & would appreciate your call sometime in the next 6 wks. Thanks.

(1)

5-20-91

Duck Valley 001

Dec. 23, 1985

BIA notified that it had 3 UST's in Owyhee, NV

Tank No. 1	12,000 gallons	- diesel fuel	- 40 years old
2	12,000	"	"
3	1500	"	20 "

April 6, 1988

from Roger Roepke, Elko IHS office on an IHS, Tribe, BIA meeting about contamination to file

- memo indicates that on 10/2/87 reports of a strong oil smell in the water

- they suspect a BIA buried fuel line
- taken out of service in 1985

- IHS indicated a backup well will be placed in service in April or May 1988

- still need another well
- will ask for EPA assistance

May 12, 1988 con'd

- other soil sample - ND
- one water sample → ND in 30 hp wel
- 2nd water sample 0.5 ppm hydrocarbons (7.5 hp well)

May 31, 1988

- Enseco lab to IHS
- results of 4 water samples and 2 soil samples (same as above)

water (7.5 hp well) → 0.48 ppm
soil → 11,000 ppm

June 1, 1988

- from Shoshone Paiute Tribe to Laura Fujii, EPA Indian coordinator
- simply states when a meeting will be held to discuss the contamination

June 8, 1988

- memo from IHS field personnel to EPA
  - has an attached letter from an IHS sanitarian to BIA stating that they believe the contamination is coming from their fuel line

September 16, 1988

- letter from superintendent, Eastern Nevada Agency, BIA to Phoenix Area Director, BIA
- they tested the MW with a gasoline finder
→ none detected on Sept. 9, 1988

October 11, 1988

- letter from Superintendent, Eastern Nevada Agency, BIA to Phoenix Area Director BIA
- tested the MW on Oct. 7 with gasoline finder
- nothing detected

October 14, 1988

- letter from Phoenix Area Director of Environmental Services BIA, to the superintendent, BIA, Eastern Nevada
- letter asked the BIA to take water samples and submit to a lab

Nov. 22, 1988

- Tom Dano, EPA to BIA
- letter enclosed MCL's and indicated that a water analysis should run for a full spectrum of petroleum components

Feb. 21, 1989

Data Chem. lab to BIA from 30 hp well
- results of water sample (~~probably [illegible]~~)
- no VOCs detected

Feb 24, 1989

- BIA to Phoenix Area Director of Env. Services
- transmitted results from the Feb 3, 1989 sampling of the 30 hp well → no VOCs detected

Feb 22, 1989

- from Phoenix Area Director of Env. Services of BIA Super

- received results, but analysis for additional compounds need to be run

March 10, 1989

- EPA, DUST to BIA, Phoenix Area Office, Env. Serv
- letter requests info. from BIA on the tank and tank system

Feb. 28, 1990

- from EPA Drinking Water Branch to BIA
- requested additional info on tank system from BIA

Feb. 5, 1990

- memo from Jill Korte, Drinking Water Branch to Larry Wood, OUST
- attached all the files on BIA tests, etc.

May 20, 1991

memo from Frances Schultz, Compliance Officer to Ted Curtis, BIA

- indicated that BIA wanted info about disposal of contaminated soil

ROUTING AND TRANSMITTAL SLIP

Date 5/20/91

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. Pat Eklund	pe	5/28/91
2.		
3.		
4.		
5.		

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

REMARKS

Pat-
This may or may not result from an UST leak.
Bridget Coyle in our section is attempting to get more info.
> hydro - please follow up to find out if it is an UST or not -

DO NOT use this form as a RECORD

RECORD OF COMMUNICATION

☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE

☐ OTHER (SPECIFY) Mgmt. HAZ. WASTE (Record of item checked above)

TO: Ted Curtis, BIA
8-261-6956

FROM: Frances Schultz
Compliance Ofcr.

DATE 5/20/91

TIME am

SUBJECT
Fuel Oil Spill in Duck Valley Ind. Reservation

SUMMARY OF COMMUNICATION

I returned his call. He had reviewed an internal memo regarding a fuel oil spill on the Duck Valley reservation in the Oywhee community in Nevada. He doesn't know when the spill began, but it may impact a drinking water well. BIA & IHS can't find $ to clean it up. He believes that someone from EPA has been involved, but he doesn't know who. I told him the requirements for cleanup would depend on whether the material was TCLP hazardous waste + whether it leaked from a pipeline or an UST. He said he thought samples had been taken + that it was from a pipeline. He did not have a great deal of information; however he referred me to Warren Sedlecek (pronounced Sédlecheck or Sédlagic) at the Elko, NV BIA area office (no phone # provided).

CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES
TO: Eklund (H-2-1), Bisson/Coyle (H-2-2), Ryan (W-6-1) Indian Wkgp. Drinkg Wtr. Rep.

EPA Form 1300-6 (7-72) REPLACES EPA HQ FORM 5300-3 WHICH MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

54 9610

1/29/90

Lea Boyd 461-3737 not in, left message
2/2/90 2nd call, left message

1/29/90
Call Butch Creamer (602) 669-2137 (left message)
- Babcock & Sons (714) 684-1881
- Riverview Trailer Park - NO_3 29.1 mg/l
- Risk Assessment & Decision Making Course March SF April Sacto
  - 3 day course, intended for superfund people
  - break into groups of ~10, look over info on a contaminated GW/air site, develop risk estimates and cleanup plans
  - On 3rd day, you have a mock public meeting where several people are chosen to be the panel of experts and have to field questions from the "public."

June: Phoenix → Sent

1/29/90 Roger Roepke (702) 738-8056
Elko → Goshute 200 mi 2 days yes, results
" → Duckwater 160 mi 2 days no results
" → Duck Valley 100 mi 1 day yes, results

[* Feb 5th - 9th]
* Feb 26th - March 2nd

Dosing once a week
8,000 Daniel Tsinnie 2X/week 7-8 mi drive
Shut down - Shock Chlorination
Burn up water heater
200 ppm in whole distribution

last section is walk

Drilling & Developing the well
75 gpm

Diesel fuel - Alluvial fan, poorly graded gravel

#1 } both used for heating
#2 }

→ used for heavy equipment

30 hp shutdown - use down low ~~enough~~ 55

- tested 5 min } ND, even down
5 hr } to ppb

Enesco ½ ppm

Readily running out of monitoring

Highpower engineer George Ferris

Paste; plumb bob, dunked it in twice

→ petroleum business, gas in UW collection

20 - 30 ppm sensitivity level

bucket of gasoline → didn't turn paste

August 5 letter

BIA can do this; Prove beyond doubt, then sue us

No monitoring Warren ~~Sedlick~~ Sadlacek Acting Superintendent in Elko.

BIA

(702) 738-5165

~~Diesel Fuel~~ 5,000 gals of fuel; leaking? → Pressure Test down by an Idaho firm; BIA says it passed; W. Sedlic into on pressure ~~test~~. BIA does have regs.

Thought employee was stealing!

New well - upgradient; 2 mi South

S-N

Money for 3/4 of project

needs $100,000; can ~~meet~~ peak demands + 25%. small well breaks; if new big well breaks, not enough water → hospita

Another 10 hp - 300 ft N

7 hp

aesthetic - but have slug of diesel if well has

1st step - well configuration. if not available generate it (radioactive tracer, etc.)

11/28

→ or more than one in there. (at least 2, maybe 3

MW between 30up + used well

take samples as they dig

drill to water table + 25 feet below lowermost screened interval (or boring).

drill as deep as the deepest of the wells + then deeper

get to zone they're drawing from

submit a workplan for drilling well

---

soil boring?

maybe best to have them do MW

---

letter to tribe w/ recommendations

suggest lining + belt mining - check lining

& integrity

dry well Tub

desel tank

- order to dig out until they hit clean ground if continued to be used cement it.

Chemical storage shop area

what do we want them to do

whats in them + submit workplan to get rid of it.

ask about integrity of pad

ask about rainwater getting into bldg

* soil boring through dry well

Copy of NV mtg notes to Chris S

OWYHEE BRIEFING

WHO: CHRIS, Clarice, STEWART, ME
WHEN: OCT 18 + 19
WHAT/WHERE: INSPECTION
of BIA facility and central area of Owyhee

WHY: HISTORY
2 wells shut down late 80's
contamination of dw by petroleum hydrocarbons

POTENTIAL SOURCES:
BIA roads shop
Tribal maintenance yard
Elko Schools maintenance
Heating fuel storage (above
chemical storage shed (BIA)
TEXACO STATION

ORDER
- site characterization
- wells stats
- u/c well info
- USTs
- drumstorage area
FUTURE monitoring well

→ There were known releases at just al
All in close proximity to 3 original u
ie BIA 1980: sh 8,000 gallon diesel spill → or

Sampling: Performed sampling while there
purged the 2 shut-down wells
tested 3 other dw wells.

soil: 3 dug trenches
also sediment + water in Owyhee canal

NEXT STEPS: Need to decide on order
Propose: 1) combined 144.27 + 1431 to BIA
require info + clean-up → interview w/ BIA folks was interesting probably a lot more info out there
2) 1431 to school → combine w/ UST if they're interested
3) Informal letter to Texaco
4) letter to tribe telling them of our request to

Questions: there are still many more questions than answers

→ was 8,000 gallons diesel spilled or not delivered
→ well logs / specs
→ talk to some of the people who've worked / lived in the area over the years
→ do we issue orders now or wait for sampling results
→ environmental justice
Rio Tinto abandoned well
(112) → SPCC requirements violated
* → sump + dry well
generator area
pump ran into dry ~~well~~ well.
→ get RCRA authority or do our

* follow-up w/ DEP on ~~[illegible]~~ order to Rio Tinto
what about injection well that is not p+a

SPCC 112.1 (2)(ii) 1,320 tons storage

Sampling / Boreholes

clean up leaking batteries
submit a workplan for
shed: excavate contaminated soil
+ dispose of in a proper manner
+ remove any other contaminated soils

B/A

- soil boring where unleaded surface spill occurred
- investigate well
  - how is it lined
  - ~~is there an~~ dry up pipe - determine location of outfall (flow) or otherwise
    show us that pipe was previously plugged
    - provide indication as to when
  - order proper removal + disposal of drums
    - smell, leaking already occurring
  - → what is in them
  - SPCC stuff - remove tanks or Position them according to SPCC (secondary containment)
  - if hazardous waste remove tanks
  - 10,000 g diesel tank → SPCC

SPCC group Fret Meyer (later orthogonal section)
they need to do this
or can Granberg issue 309 A submit SPCC plan.

closed dry wells
- get water depth for all of the wells,
- hydrogeology stuff

2nd potential dry well next to chemical storage area or generator
→ dry well 144.27, for example this one
ask questions about whether its endangering gw
make argument that stuff from shed might come out

8,000 - 10,000 gallon tank
compliance
- cleaning properly disposing of contaminated soil
- secondary containment

Tribe

secondary containment

Meet Monday at 2:30

✓ - call Clarice - when do
✓ - call Bill - map
- briefing w/SPCC people
- ask Bill if BIA still uses their 8,000 gallon tank. Bill said yes, BIA said - videotape
- need well logs

1431 | 144 27 to BIA

~~So~~

call Gower / Power

Inspection report to BIA

1431 to school

- address name - superintendent
- all info on tank installation, when, inventory, whats stored in them do they have info about leakage

pressure integrity testing

info about integrity next to area where there is known contamination
- also order integrity testing - pressure test - submit workplan to EPA for MIT.

~~2 wells inside shop~~

results sent to us.

letter to Texaco

- letter to general mgr - "By queso"

who, when, when shut down, do they have any info about tank removal, were samples taken, enclose photo.

- Loretta's signature

chemical storage shed

do we have any authority here

Health Advisories

April 1990 ~~(7/18/88)~~ → ~~Is there a newer one?~~

	Duck Valley Level	D.L.	Proposed MCL	Child long term Advisory	Adult Lifetime	
Tolvene	1.3 ppb	0.5	2 ppm	3.00 ppm	2000 ppb	
	2.1 ppb	0.5				
Ethylbenzene	1.8 ppb	0.5	0.7 ppm	1.0 ppm	700 ppb	–
(0.03 ppm, SMCL proposed)	1.6 ppb	0.5				
Xylene p,m	1.1 ppb	0.5	10 ppm	4.0 3.6 ppm	10 ppb	Ni
	0.9 ppb	0.5				
Xylene o	1.7 ppb	0.5				
	1.6 ppb	0.5				
(Totals 2.8, 2.5 ppb)						
Isopropylbenzene	1.2 ppb	0.5	–	– ~~11.0 ppm~~*	– ~~7721 ppb~~	–
	1.0 ppb	0.5				
Napthalene	0.8 ppb	0.5	–	0.5 ~~5.3~~ ppm	300 ppb	Nf
	0.8 ppb	0.5	–			
1,1,1 Trichloroethane	1.1 ppb	0.5	0.2 ppm (final)	40 ~~35~~ ppm	200 ppb	Ni
Chloroform	0.5 ppb	0.5				
~~Chloroform~~	~~0.5 ppb~~	~~0.5~~	0.1 ppm	–	–	0.6 ppm

* Proposed Health Advisory

No Health Advisories or MCL's

1,3,5 trimethybenzene — nothing
4 isopropyltolvene - nothing
1,2,3,4 tetramethylbenzene - nothing

WATER SAMPLES

6/30/88 letter to Sen. Hecht: 2 ppm in H_2O hydrocarbons, not necessarily petroleum

Sample Date	Sample ID	Sample Location	Test Method - (+ what it's good for)	Test Result	Detection Level	Lab
2/3/89	#1	30 hp well	EPA 624 (/5030) Volatile Organics by GC-MS (incl BTEX)	All ND	Varies 1.6-10 ug/l	Data Chem SLC, Utah
3/15/88	#1	30 hp well	TPH GC-FID	ND	0.1 mg/l	Enseco-Cal Sacto, CA
3/15/88	#2	10 hp well	TPH GC-FID	ND	0.1 mg/l	
3/15/88	#3	School	TPH GC-FID	ND	"	
3/15/88	#4	Hospital	TPH GC-FID	ND	"	
3/15/88	#5	30 hp well	TPH GC-FID	ND	"	"
5/2/88	#1	30 hp well	EPA 418.1 TPH by IR	ND **	0.4 mg/l	
5/2/88	#2	30 hp well	"	NA		
5/2/88	#3	30 hp well	"	NA		
5/2/88	#4	3.5 hp well	"	0.48 mg/l *	0.4 mg/l	

4/20/89 letter - reference to sample results from DH+HS, KDK of SF - These are not in file.

SOIL SAMPLES

5/2/88-001			TPH GC-FID	12,000 mg/kg	1000 mg/kg
5/2/88	#1	150' from well	EPA 418.1 mod. for soil	11,000 mg/kg	2000 mg/kg
5/2/88	#2	30' from well	TPH by IR	ND	20 mg/kg

1990?

* This result would have measured 0.88, but the Method Blank came out w/ 0.4 mg/l.

Compound	Concentration, mg/l			1990?
	30 hp	7.5 hp	10 hp	Monitoring
TPH (as gasoline)				
Before Purge	ND	0.13, 1.7	–	ND
After Purge	0.05	1.0, 1.2	ND	–
TPH (as diesel)				
Before Purge	ND	~~ND~~ 0.10	–	
After Purge	ND	~~ND~~ 0.08, 0.11, 0.12 *	ND	ND
Unknown Extractable Hydrocarbons				–
Before Purge	ND	ND	–	ND
After Purge	ND	0.7	ND	–

* Not like normal K/J/L diesel standard.

concentration, ug/l

Compound	30 hp	7.5 hp	10 hp	Monitoring
1,1,1-trichloroethane	ND	ND, ND	ND	ND
Ethylbenzene	ND	ND, 1.8, 1.6	ND	ND
p,m-xylenes	ND	ND, 1.1, 0.9	ND	ND
o-xylene	ND	ND, 1.7, 1.6	ND	ND
Chloroform	ND	ND, ND, ND	ND	ND
toluene	ND	1.3, ND, ND	ND	2.1
isopropylbenzene	ND	ND, 1.2, 1.0	ND	ND
1,3,5-trimethylbenzene	ND	ND, 4.2, 3.6	ND	ND
o-isopropyltolvene	ND	ND, 3.7, 3.4	ND	ND
Napthalene	ND	ND, ND, ND	ND	ND

6/21/88

- LEFT MESSAGE w/ HERMAN ATKINS (IN MEETING); REQUESTED RETURN CALL.

- 20,000 GALL FIBERGLASS TANK, (NOW UNUSED) TO EAST OF WELL.

- BIA ~~NOT~~ NOT DESIRING TO TAKE ACTION.
  G. Ferris said they'd "work with Tribe" on it

5-5-98

1988 JSC 12/9

March 9, received a call from CHN Wayne Stanberry regarding Petroleum taste in Water. Several Residents complained about petroleum taste. Donna Brown's (Nurse at Owyhee) husband reported that he lit the water.

March 10

Saniterian visits Owyhee to ascertain public health significants of the problem. A memo of recommendations is written to the tribe. A survey of all underground tank is initiated. Sample bottles are flown in from Reno. Generally Problem isolated to 30hp well

March 11

Did not Received Water sample bottles at 1:00Pm, Drove Down to Owyhee. Water Samples were not received - wrong Zip Code was given. Samples went to Salt Lake City, Ut; Will be re-routed and be received Monday evening before 5pm. Called Herman Atkins and Norm Cavanaugh an filled them in on the details.

March 23

Engineer reports contamination may be linked to large tank near old Power house - lines have leaked. Evidence found to support this

March 24
Site Visit. Petroleum saturated soil below Old Powerhouse Diesel tank pipes at their junctures. Soil discolored and strongly smells of petroleum. Soil consists of gravelly sand easily permeable. Several holes are dug near 30 hp well all are positive for contamination.

April 1, Attended meeting at tribal office; representatives of the tribe, BIA and IHS attended. Discussed were how to proceed with the Petroleum Contamination problem. BIA denied any claim to problem despite seemingly overwhelming evidence. Mr. Ferris Environmental expert from BIA will be on hand.

May 2 - four aqueous, two soil samples are taken for total petroleum hydrocarbons by DR. Water samples are taken 3- from 30 hp well 1-7 hp well, Soil samples are from soil around 2.5" pipe, one from area in front of well. Sample #1 taken from source of contamination was also tested for types of contamination

May 3 letter written by me to Steve Tibbetts BIA Superintendent concerning Water Sample results for previous & aqueous samples that were negative.

May 5
Call from George Ferris BIA Chief Eng. Will schedule a visit to determine contamination. Wanted a run-down on the situation.
(202) 343-2952
Wants a call when new sample results are received.

4/26/88

John Hamilton
Area- OEH

Status Report - Owyhee Well Problems - As requested.

- Bids for the new well will be opened later today we have at least one bid- Welso, Fallon, Nev.

- first samples taken show no hydrocarbons. (Not detectable)

- two more samples will be taken after the well has remained off for two or three days. Probably be sampled Monday, 2nd if O.K. with Larry Manning.

- two soils samples will be taken near the leaking pipeline to see if the material found there is the same as what may be found in the well.

- the Tribe is currently using the 30 HP well. It is running continuously (tank overflowing) Larry has received NO complaints on water quality since starting it.

- BIA has been asking for test results from the first tests. I've asked Roger and Theresa to draft a letter transmitting the results to BIA. Ken will review the letter with them on 4/27/88 before it is sent.

Maru

cc. Ken
Roger
Theresa
File - Duck Valley - General Correspondence

1-29-90

Chris's Notes

Principal
Mrs Gloria Jim

Terry Jones — 15 yr. employee
maintenance supervisor

Shop
10,000
Above
Fuel
oil

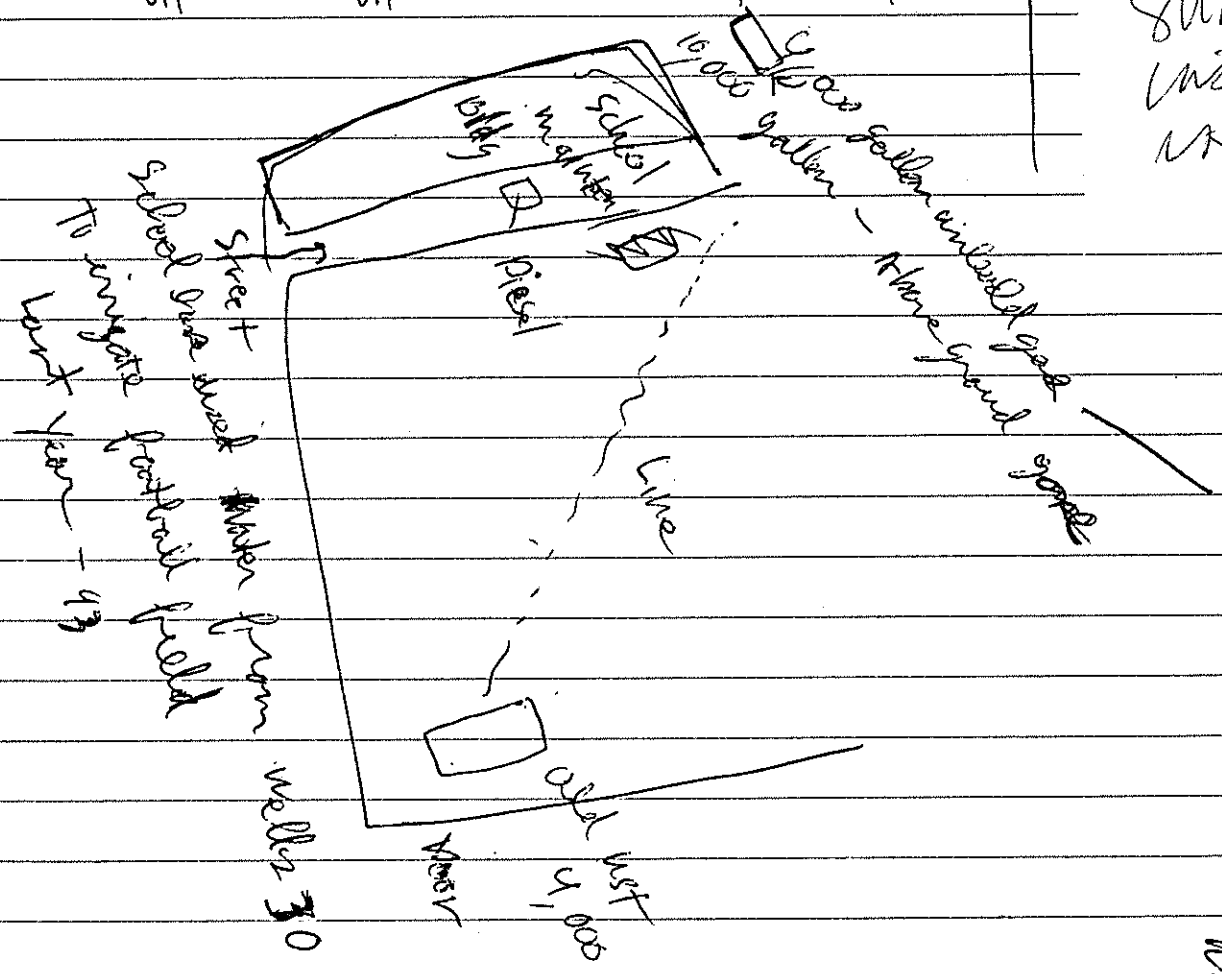
4,000
gallon
UST
Fuel
oil

New tank is
double walled
10,000 gallon
UST
* Tree
Fuel oil

Hwy
4 or 5 yrs

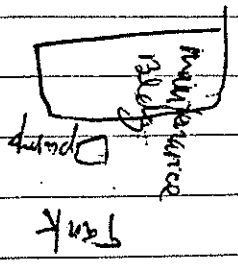
SUMMARY
inspect
info

UNKOWN
DATE



wells 30 Hp → 4" line

Thought tank
had leak
removed
late 80s



No product inventory
(doesn't have system)
New tank does

Not sure if
single or double

No product
inventory
system

Diesel tank — 20 yrs old
about Cinnamon
used to be gas, til last year came here

No floor drain, use barrels

— Used to be a steam rack, steam-cleaned equipment

□ — Not used for past 10-15 yrs.

terminated on-ground

—— ⊙

Goes to outside bldg.

Plugged 10 yrs. ago

Had Someth. of oil/water Separ

Used to be 2 buried Tanks?
by BIA ~~[illegible]~~ Current Fuel Oil tank
20,000 gallon tanks
pulled out couple yrs ago

BIA drawing — shows 1 12,000 gallon tank

Roll #4
BIA Road Shop

10 pieces of Heavy Equip. that look used, 2 not

Photo 7 — Red tank — Side of Bldg.

Photo 11 + 12 + 13 — Floor Drain in Road Shop

Photo 14 — Pad where Steam cleaning occurs?

BIA

Dennis Smith was BIA employee at time of 1,000 gallon tank rupture
Now - Tribal Councilman

Water main runs along side
road by entrance of
BIA Road Shop & Tribe Shop

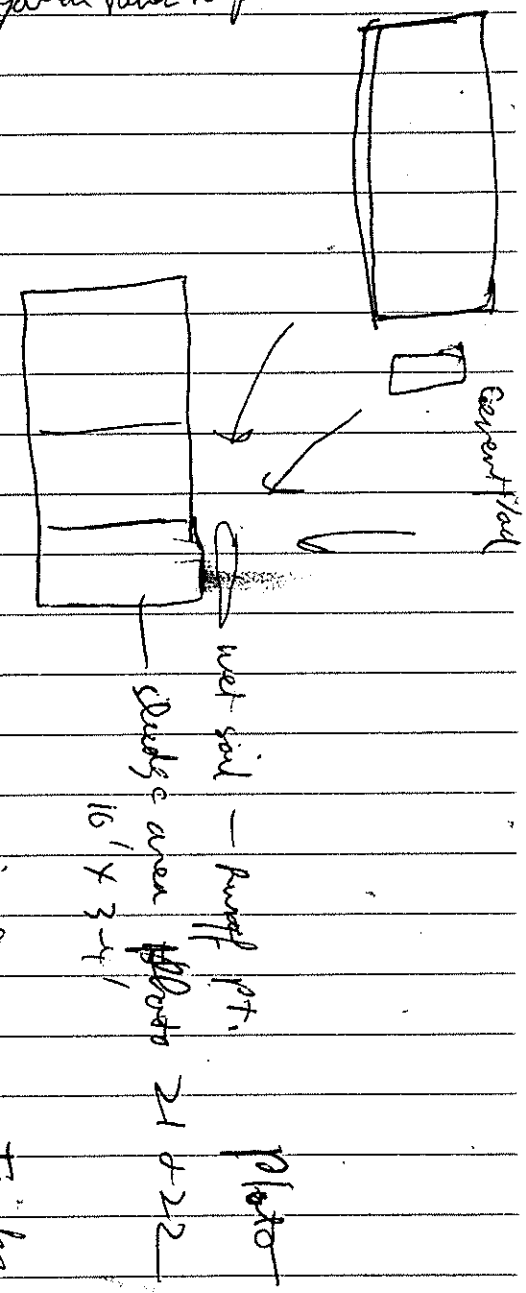


Photo 26

Stuart Simpson
Clarice Olson
Cynthia Sams

Bill Beck Lester Shaw, employee of BIA at time of diesel spill.
1980? ish – 8,000 gallon tank, diesel tank empty

FBI investigated. Not clear whether diesel was ever delivered.
Pressure test on line – Showed up fine

Maintenance has well elevat. data

BIA has done groundwater st.
White Shield, Inc. as Contractor for BIA
Stuart Fricke did study of groundwater in area
would include groundwater elevat. in wells

Gasoline spill in Tribal maintenance yd.

BIA Road Shop has surface drain. Lathe connected, solvent bath. Surface Drain goes to dry well. Solvent & other fluids dumped into well.

Tribal witnesses on drain/dry well uses:
Dennis Smith – BIA Roads Maintenance Shop on Tribal Counsel
Frank Brady – " (retired), Worked for thirty yrs.
Marvin Cota – " , Presently Supervisor of BIA Roads Yd.

Photo 7 – 14
30 hp pump turned sort of yellowish
Water started clear, turned dark brown, then lighter brown
Oily Smell – diesel?

Nathan Bacon Director Water & Sanitation

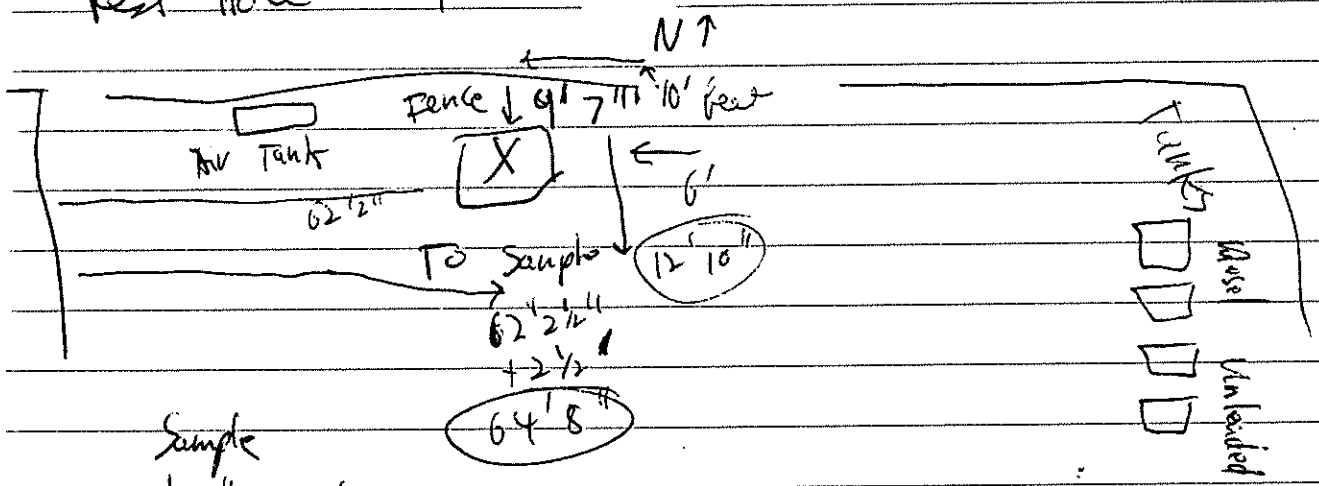
Town has HUD grant to replace all sewer lines & water lines in town, contingent on housing project, which will also be funded by HUD

- Tribe contact Herman Atkins

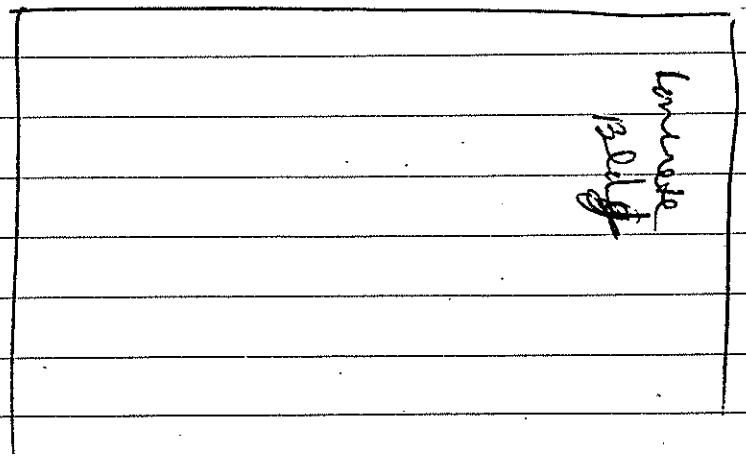
→ There's water line on Maintenance Yd.
& Diesel line

(Knowing where lines are is difficult. Not much mapping

Test Hole # 1 Tribal Maintenance Yd



Sample
7' 8" – 8' 2"



John Krause, BFA

1st Soil Clean, rocky, cobblestone, brown. About 31 Layer of black clay

Cynthia:

Photo 15 — 22

Clear at first, turned grey, then black, then cleared up. Strong petroleum smell "(" very strong")

~~Cassidy Hot~~ — 100', 60' pump, bags No access to logs

Wilt Blossom, BFA

~~16' vertical~~ Screened to about 20' more

Hole #1, Sample 1 — Ca Luft for Diesel, Gas, & Semi Volat

Hard Clay Taken 3' deep, Slant-drilled

Sample 2

Same location, Volatiles

Hole #1, Sample 3 — Taken 7' 8", bottom of hole, Clayey Sand Semi-Volatiles

Sample

Roll #2 — #1 Stuart Sampling

#2 Stratif. of Hole #1

Broken-out Window (BIA Bldg.) / Diesel Storage Tank Area

① Diesel Tank Area (Bldg Next to area)

Diesel unloaded here on ~~dirt area~~, diesel spills on dirt apparent. Diesel smell. Photo 6

Old pipe for unloading diesel - diesel smell, stained soil ← Photo 5

② Corrugated Metal Area, broken-out windows - Chemical drums stored ?

Dry well w/ 3 Stakes. Photo 7

Photo 8 1,000 Gallon Red Tank on Side of Bldg next to diesel area.

Photo 9 Fuel Oil Tanks # 308 & 9

Across from BIA Diesel Storage Tank, next to Stone Bldg.

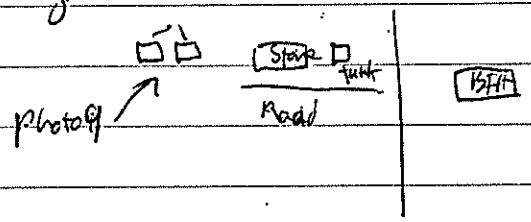
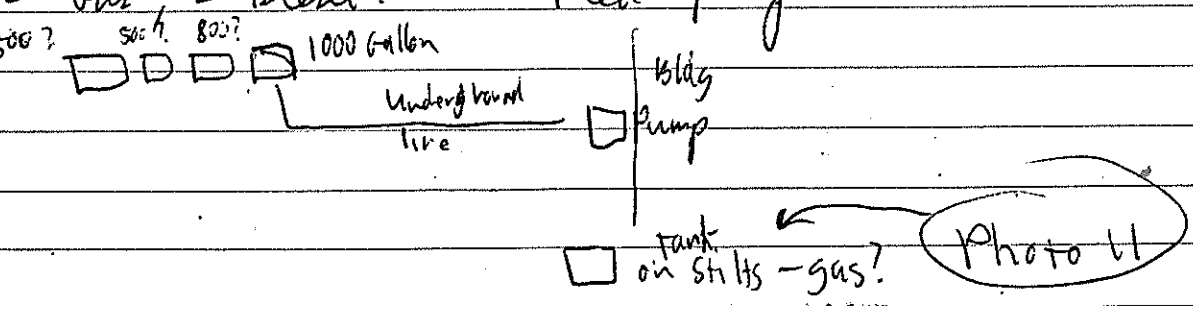


Photo 10 - 4 Tanks, Tribe Maintence Yd

2 Gas, 2 Diesel? - Feed pump



Creek/Canal (man-made)
Irrigates fields

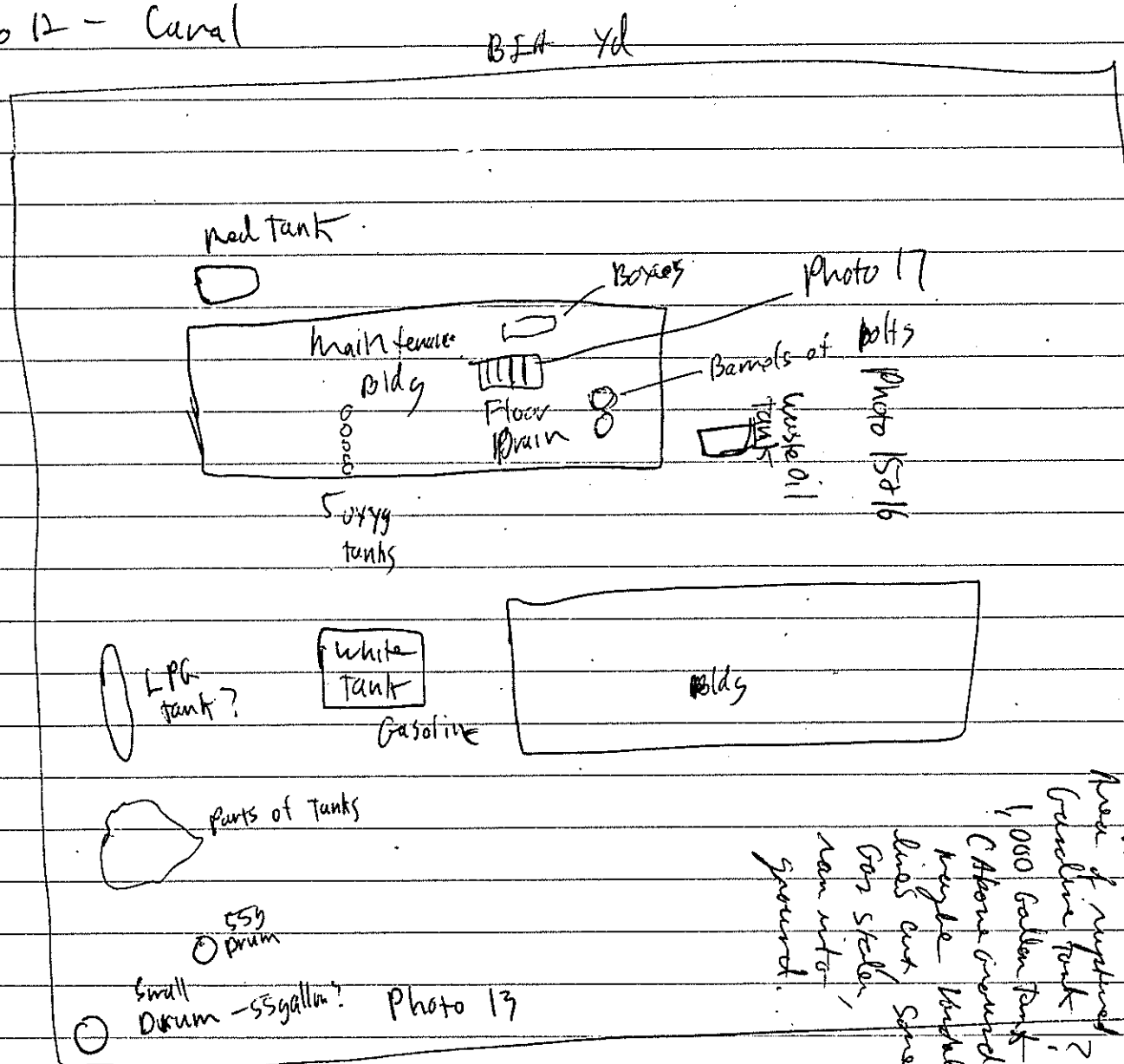
↑ 15–20' Berned Canal
Junky area
"Lube Chassis

BIA Road Yd

Tribe mainten.

TO Do: Count tanks — BIA

Photo 12 – Canal



Trailer
Area of ruptured Gasoline Tank?
1,000 Gallon Tank (Above Ground)
Maybe Vandalized, lines cut, some Gas stolen, ran into ground.

Test hole Big here

Photo 14 – Green Lube Chassis Container

John Krause
BIA Plans
Hydroprobe
Geoprobe

BIA interested in exploring site clean

Road Shop installed 1937 Wilt Robinson
Drain's been here since ↑ has been
there — 18 or 19 yrs

4 employees in BIA Yd. All local residents

Roads Maintenance
↳ Marvin Cota — Supervisor, Roads Maintenance

Marvin Cota — Floor Drain Late 50's
At one time ran out to dry well
Floor Drain clogged up.
Pumped out now — BIA pumps out, pumped out onto ground South end of bldg.
Now, catches rainwater from East Side of Bldg.
Pumped out only when it rains

Even when dry well was in place, floor drain would back up
Dry well backfilled in "quite some time ago" — (At least) About 10 yrs Ago
guesses 1980?
Behind Sand piles, To West of the White Tank
~~Steel pipes~~?
Worked here since 1960.
10 pieces of heavy equipm — used for road + irrigat.

"Maintenance work on heavy equipm"
In past → fluids purged into dry well (Pre-1980ish)

After that — into barrels
Co. comes in & pumps out waste fluids. Not too often

Solvents to clean parts.
Have quit using in recent yrs.
No knowledge
Steam cleaner used now →
Concrete pad used — To South side of Bldg
Steam cleaning Not that ~~used~~ often — 1 X per month or less

Road Slop hooked up to City Sewers — Just in bathroom.
Floor drain not hooked up to Sewer

~~[illegible]~~ New Road shop — scheduled for ~~[illegible]~~ last 10 yrs.

Diesel tank across road — Abandoned now
Was hooked up to Shop
Independent heating oil tanks on-site now

West of Slop area — 2 abandoned tanks

Diesel tank — 2 Yrs. old — 5,000 gallon,
Double-walled tank
Red tank — 500 gallons
2 ~~[illegible]~~ pulled out tanks —
Never stored gas, just diesel

(Jim Smith B&A)

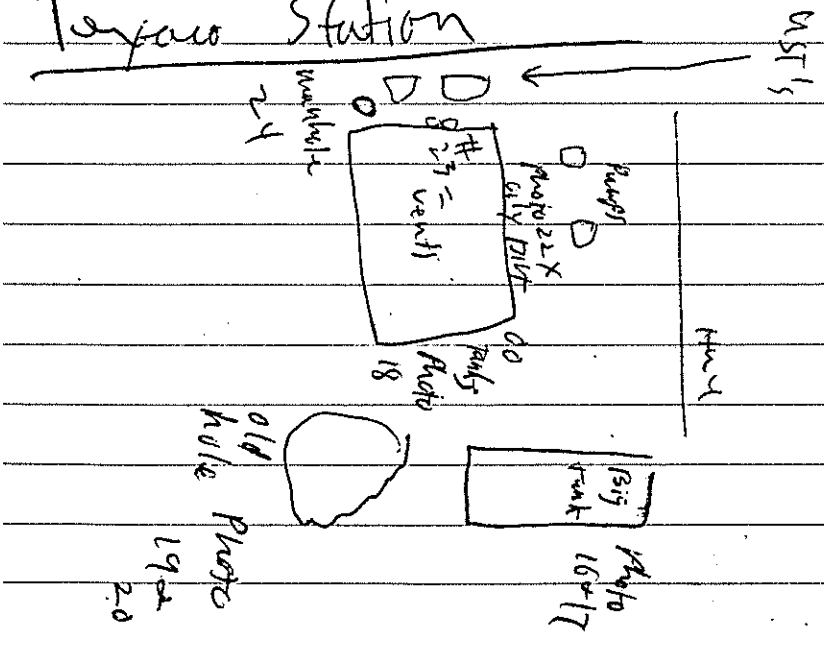
BTA: When tank pulled out, samples taken
Area was clean, tanks didn't have holes
Samples would be in Elko?
Jim Limburgh took samples?

Texaco Station - N. side → Oil change, dumped on ground. Texaco Stat. has 2 storage tanks, USTs

School is potential source of gasoline contam. - had/has a UST - stores gasoline

Old store used to sell gas - 4-5 yrs ago (Up Hwy to North)
Texaco Service Stat. - Closed 10 yrs.

~~School~~
Cota: spill w/in last 10 yrs. → Next to School?

SPCC Requirs
Single tank x > 660 gallons
All tanks x > 1320 gallons

Texaco Station