1/9/05

Location ID	Area uR (uR/hr)
PA-P12	13
PA-P13	16
PA-P14	16
PA-P15	18
PA-P16	16
PA-P17	17
PA-P18	16
PA-P19	17

PA-P12

feet	Sample time	uR (uR/hr)
5	11:15	12
10	12:10	11
15	12:20	10
20	12:40	10
25	12:50	12

Drilled at 45° angle.
Horiz dist from tank = 18.0

PA-P13

Feet	Sample time	uR (uR/hr)
5	14:30	12
10	14:35	11
15	15:00	12
20	15:15	13
25	15:40	12

Duplicate collected at 5ft. time labeled as 14:00
Drilled at a 45° angle. Dist from tank = 13.0

1/10/05

PA-P14

Feet	Sample time	uR (uR/hr)
5	10:45	15
10	11:00	14
~~15~~	11:15	~~14~~ *
~~15~~ 20	11:25	11
~~20~~25	12:05	11
25	12:30	12

Collected MS/MSD at 5 feet.
Drilled at a 45° angle.
Dist from tank = 13.5'

* Original Sample at P14-15 was thrown out because it was a premature sample. The actual P14-15 Sample was collected as P14-20. All Samples were re-labeled accordingly.

1/11/05

PA-P15

feet	Sample time	uR (uR/hr)
5	8:15	12
10	8:25	12
15	8:40	11
20	8:50	12
25	9:25	12

duplicate on 10 feet Sample.
Equipment Blank taken at 09:30
Sampled by Raymond Lacoster.
Angle = 45° perp to tank
Dist to tank = 16.5'

PA-P16

Feet	Sample time	uR
5	10:25	14
10	10:30	14
15	10:40	15
20	11:15	17
25	11:30	15

Field blank Sampled at 10:30
Angle = 45° perp to tank
Dist to tank = 18.0

PA-P17

feet	Sample time	uR
5	13:35	11
10	14:00	11
15	14:10	11
20	14:25	12
25	14:45	12

Duplicate Sampled at 5 feet
Sampled by Raymond
Angle = 45° perp to tank
Dist to tank = 19.0'
At 5 ft. VOA vial #2 has 10 grams soil.

1/12/05 Wednesday

PA-P18

feet	Sample Time	uR (uR/hr)
5	08:30	17
10	08:35	15
15	08:45	16
20	08:50	17
25	09:00	15

MS/MSD at 5 ft.
Samples taken by Raymond
Angle = 45° perp to tank
Dist to tank = 13.5'

PA-P19

Feet	Sample time	uR
5	9:45	13
10	9:55	11
15	10:00	14
20	10:10	12
25	10:20	13

duplicate taken at 5 feet.
Angle = 45° perp. to tank
Distn. to tank = 19.5'

Area Radiation readings (waist height)

Location ID	Area uR (uR/hr)
PA-EE15	16
PA-EE16	22
PA-EE17	65
PA-EE18	50
PA-EE19	27
PA-EE20	25

1/21/05
Area radiation readings:

LOCATION	Area uR (uR/hr)
PA-BBB1	18
-BBB2	18
-BBB3	18
PA-CCC1	23
-CCC2	26
-CCC3	26
-CCC4	30
PA-HH# 10	20
-HH 11	20
-HH 12	19

Wednesday 1/26/05

PA-HH10

FEET	METHOD	SAMPLE TIME	UR
5	CC	8:25	18
10	CC	8:35	16
15	CC	8:55	17
20	CC	9:05	18

Collected MS/MSD at 5 feet.
Drilled at a 45° angle.
Distance from tank = 10 ft

PA-HH11

FEET	METHOD	SAMPLE TIME	UR
5	CC	9:50	20
10	CC	10:00	19
15	CC	10:15	19
20	CC	10:25	18

Field Blank collected @ 9:55
PA-HH11-SF
Drilled at a 45° angle.
Distance from tank = 13.0 ft.

25	CC	10:35	20

1-26-05 cont.

PA-HH8

FEET	METHOD	SAMPLE TIME	UR
5	CC	11:10	16
10	CC	11:20	17
15	CC	11:25	16
20	CC	11:30	17
25	CC	11:35	16

Drilled at a 45° angle
Distance from tank = 7.5 ft.

PA-HH9

FEET	METHOD	SAMPLE TIME	UR
5	CC	14:10	17
10	CC	14:15	15
15	CC	14:20	16
20	CC	14:25	17
25	CC	14:30	17

Drilled at 45° angle
Distance from tank = 7 ft.

1-26-05 cont.

PA-HH12

FEET	METHOD	SAMPLE TIME	uR
5	CC	15:35	15
10	CC	15:40	14
15	CC	15:55	15
20	CC	16:00	16
25	CC	16:25	15

1/27/05 P. Bassett

PA-BBB2

		Time	Interval	uR
-5	CC	9:35	4.5-5.5	
-10	↓	9:50	9.5-10.5	
-15		10:05	14.5-15.5	
-20		10:15	19.5-20.5	
-25		10:25	23.5-25.5	

-5F Field blank

Larger volume on 25' interval so Margaret can get ms/msd sample

No visible oily soil, some organic matter (roots) in samples.

Tuesday 2-1-05 T. Cox

PA-BBB1

FEET	METHOD	SAMPLE TIME	uR
5	CC	10:10	17
10	CC	10:20	18
15	CC	10:25	17
20	CC	10:30	15
25	CC	10:45	16

Duplicate at 5ft. Trip Blank (PABBB1-5g)

PA-BBB3

FEET	METHOD	SAMPLE TIME	uR
5	CC	11:00	17
10	CC	11:10	16
15	CC	11:15	17
20	CC	11:25	16
25	CC	11:30	16

Duplicate at 5ft.

2-1-05 Cont

PA-CCC2

FEET	METHOD	SAMPLE TIME	UR	
5	CC	13:35	21	
10 *	CC	13:40	19	oily black
15 *	CC	13:50	20	oily gray/green
20 **	CC	14:00	19	oily brown
25 **	CC	14:10	22	oily black

Duplicate at 5 ft.
* Smells like oil/petroleum
** Smells like gasoline.

PA-CCC4

FEET	METHOD	SAMPLE TIME	UR	
5	CC	14:15	23	orange
10	CC	14:30	22	
15 *	CC	14:35	21	oily/brown
20	CC	14:40	22	oily/black
25	CC	~~13:00~~ 14:45	23	oily/black

Duplicate at 5 ft.
* Smells like oil.

30	CC	15:00	24

Continued to 30 feet to get out of oily soil.

2-4-05

Redrilled PA-P18 and PA-P19 due to lab inability to process sample within hold time. Only VOC/TPH-G were re-sampled.

PA-P18

FEET	METHOD	SAMPLE TIME
5	CC	9:45
10	CC	9:50
15	CC	10:00
20	CC	10:10
25	CC	10:30

MS/MSD at 5 foot sample.
Distance from tank = 15.5 ft.

PA-P19

Depth	METHOD	SAMPLE TIME
5	CC	8:50
10	CC	8:55
15	CC	9:00
20	CC	9:05
25	CC	9:20

Duplicate at 5 feet. Distance=

2-5-05 Saturday T. Cox

PA-P1
area uR = 20
Sample uR: 19
Sample time: 8:15
Method: CC
Sample ID: PA-P1-15
Drilled at a 45° angle down to a vertical depth of 15 ft.
Depth from tank: 18 ft.

PA-P2
area uR: 18
Sample uR: 19
Sample time: 8:30
Method: CC
Sample ID: PA-P2-15
45° angle to 15ft. vertical depth.
Depth from tank = 14.5 ft.

2-5-05 T. Cox

PA-P3
area uR = 19
Sample uR = 18
Sample time = 8:55
Method = CC
ID = PA-P3-15
45° angle 15 feet vertical
Depth from tank = 15 ft.
(Had to skip middle tanks because of concrete pad.)

PA-P4
area uR = 21
Sample uR 22
Sample time = 10:25
Method = CC
ID = PA-P4-15
45° angle 15 feet (vertical 14.5 ft.
Depth from tank =

[redacted]

Cont.
2-5-05 T. Coy

PA-PS
area uR = 18
Sample uR = 20
Sample time = 10:45
Method = CC
ID = PA-PS-15
45° angle; 15 feet vertical
Depth from tank = 23 ft.

PA-EE15 45° angle N20E

Samp ID	Method	Time	Interval	uR
-1	CC	15:20	1-2	16
-1B		"	"	"
-5		15:30	3.5-5.5	15
-20		16:20	19.5-20.5	16
-25		16:30	24.5-25.5	17
-30	↓	16:50	29.5-30.5	16

30' from base of tank
Rig broke down at 20' w/ hydraulic leak
Replaced hose + continued, downtime 45 min.

2-6-05 T. Coy

PA-PL6
area uR = 19
Sample uR = [redacted]18
Sample time = 11:05
Method = CC
45° angle; 15 feet vertical
Depth from tank = 22 ft.

PA-EE16 45° angle

Depth	METHOD	TIME	Interval	uR
1	CC	8:55	1-2	20
5	CC	9:00	3.5-5.5	19
20	CC	9:10	19.5-20.5	18
25	CC	9:25	24.5-25.5	19
30	CC	9:35	29.5-30.5	20

MS/MSD at 1 foot.
29' from base of tank.

2-6-05 cont.

PA-EE17 45° angle

Depth	Method	Time	Interval	LR
1	CC	9:50	1-2	36
5	CC	9:55	4.5-5.5	34
20	CC	10:15	19.5-20.5	32
25	CC	10:25	24.5-25.5	34
30	CC	10:50	29.5-30.5	32

22' to base of tank.

PA-EE18 45° angle

Depth	Method	Time	Interval	LR
1	CC	11:39	1-2	38
5	CC	11:40	4.5-5.5	40
20	CC	12:10	19.5-20.5	42
25	CC	12:20	24.5-25.5	46
30	CC	12:25	29.5-30.5	38

Field Blank at 11:35
18' from base of tank

2-6-05 cont.

PA-EE19 45° angle

Depth	Method	Time	Interval	LR
1	CC	12:40	1-2	23
5	CC	12:5[illegible]	4.5-5.5	24
20	CC	13:05	19.5-20.5	23
25	CC	13:35	24.5-25.5	25
30	CC	13:55	29.5-30.5	24

Duplicate at 1 foot
23.5 Feet from tank.

PA-EE20 45° Angle

Depth	Method	Time	Interval	LR
1	CC	14:20	1-2	20
5	CC	14:25	4.5-5.5	18
20	CC	14:30	19.5-20.5	22
25	CC	14:40	24.5-25.5	18
30	CC	14:45	29.5-30.5	

MS/MSD at 1 foot.
22' from tank

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YERINGTON

BACKHOE

9-29-04

MeT Nejat Yolasan w/ Geotech Utility Locating at 8:00 am to begin utility line location + screening of underground hazards at drill + excavation sites
- Safety orientation
- Job review
- Site orientation

Raymond assisted

9-30-04

Begin surface soil sampling around transformers + tanks
Samplers: PBassett, DKerner, RLauster

PA-TR-1-1 - Transformer W of truck Shop (K)
TIME: 11:15am
SAMPLER: DK
DEPTH: 12"
PHOTO: 001
- Had difficulty filling EnCore samplers + getting cap to reseal + stay on. Lab says they will take from glass jar if EnCores don't hold

PA-TR-2-1 Transformer between O + N bldg
TIME - 12:10
DEPTH - 12"
PHOTO 002
- Sample next to transformer with visible leakage

10-1-04

No sampling today

Nejat w/ Geotech Utility locating on site.

- Completed screening of all groundwater drill locations
- Screened many of the auger drill locations not on BLM land
- located + marked all live electrical
- located only a few sewer/drain lines based on manhole visual observation

10-6-04

Continue with collecting surface samples
Samplers: P Bassett, R Lauster

PA-TR3-1 - Transformer NW of Precip plant
TIME: 10:45
DEPTH: ~12"
uR/hr: 18
PHOTO: 003
Sampled directly underneath existing transformer next to power pole. Coarse 2-3" river rock has been brought to area.

PA-TR4-1 Transformer W side Assay Lab
TIME: 11:40
DEPTH: 6-12"
uR/hr: 16
PHOTO: 004
Raised transformer on SE corner of assay lab. Sampled middle underneath xformer platform

PA - TR5 - 1 Transformer by Secondary Crusher (00)

TIME : 12:00
DEPTH : 6-12"
uR/HR : 15
PHOTO : 005

Live transformer w/ oil leak on S side onto cement. No visible leakage escaped to soil. Sample location W side of xformer by power pole

PA - DD4 - 1 Solution Tanks SE Corner

TIME : 12:30
DEPTH : 6-12"
uR/Hr : 22
PHOTO : 006

Crushed ½" rock, Cu chips showing

PA - DD5 - 1 Soln Tks E Side

TIME : 12:55
DEPTH : 6-12"
uR/hr : 50
PHOTO : 007

Crushed rock w/ red calcine fines

THURS 10/8/04

Surface Sampling around Solution Tanks (DD)
Samplers: P Bassett, R Lauster

PA - DD6 - 1 Solution Tanks E Side

TIME : 10:50
DEPTH : 6-12"
PHOTO : 008
uR/hr : 28
CPM α : 4

Sample location in low area between tanks, area has red fines on surface Coarse sandy soil

PA - DD7 - 1 Solution Tanks NE Corner

TIME : 11:30
DEPTH : ~~6-12~~" 4-6"
PHOTO : 009
uR/HR : 24
CPM α : 4

Coarse gravel road base, some red fines on surface, Firmly compacted

PA-DD8-1 Solution Tanks NW corner

TIME : 12:00
DEPTH : 6-12"
uR/HR : 40
CPM : 7

Sample collected from low spot on NW corner. Soft red calcine fines dark red, very fine + consistent grain size. Little to no real soil or gravel in sample.

PA-DD9-1 Solution Tanks W side

TIME - 12:50
DEPTH - 6-12"
uR/HR - 26
CPM - 3

Sandy fill material between tanks mixed w/ Red calcine fines. Some yellow discoloration. No native soil.

PA-DD10-1 Sol'n Tanks W side

TIME - 13:15
DEPTH - 6-12"
uR/hr - 50
CPM - 2

Fill material, med coarse Sand Wood chips from old wood structures mixed in

PA-DD11-1 Sol'n Tanks SW corner

TIME - 13:30
DEPTH - 6-12"
uR/hr - 26
CPM - 2

Roadbase material at corner of tank, included a little brownish soil at bottom of hole

10/26/04

Mike Weeks backhoe operator here at 9:00 am. Completed safety review + orientation.

PA-UT001

TIME 11:00

DEPTH ~8'

Steel pipe ~8-10' from manhole

2 joints visible in excavation. Sample ~12" below pipe

- uR = 16
- PID = 0.5 ppm

PA-UT002

TIME 11:35

DEPTH ~12' PIPE DEPTH ~10'

uR - 17 uR/hr

CPM - 4 CPM

Steel pipe headed ~~east~~ north from manhole

NOTE (1) - Dug ~8' at marked "location" but found no utility pipe. No evidence of drainline inside bldg. Cut phone/communication wires.

PA-UT003

TIME - 2:00

DEPTH - 5'

uR - 16

CPM

Two pipes side by side, one steel 3' one PVC ~6-8".

Sample location beneath joint in PVC pipe

10/27/04

Mike Hicks Lockheed operator on site @ 9:30 AM. Ronny Bissett, Tina Cox, & Raymond Lawster on site at 9:35 AM.

PA-UT04

Start time: 13:00 hrs
Sample time: 1115
Depth: 5'
wR: 16/12
AM: 2 CPM/6 CPM
DT: 0.03 mg/m³ 23.00 min.
PID: 0.0 ppm

Sample point is located under a T-joint.

PA-UT05

Start time: 1200
Sample time: 1225
Depth: 5'
wR: 16/11

PA-UT

AM: 2 CPM /
DT: 0.03 mg/m³ 23.00 min
PID: 0.0 ppm

Sample taken from under joint

PA-UT06

Start time: 13:55
Sample time: 1405
Depth: 7'
wR: 16/12
AM: 4 CPM/5 CPM
DT: 0.015 mg/m³ 24.00 min.
PID: 4.1 ppm

Sample taken from where pipe enters manhole.

10/27/04 Cait

PA-UT007
Start time: 14:25
Sample time: 14:50
Depth: 14' adj. top of manhole
uR: 7/12
AM: 98 cpm / 167 cpm
DT: 0.012 mg/m³ 25 min.
PID: 3.1 ppm

Sample was taken from pipe 1/16" to manhole

~~PA-UT007~~
~~Start time: 15:15~~
~~Sample time~~
~~Depth:~~
~~uR: 16/~~
~~AM: cpm /~~
~~PID:~~
~~DT:~~

Note: (E) N. pipe found. Dug to approximately 10'

PA-UT008
Start time: 15:30
Sample time: 16:05
Depth: 6'
uR: 16/12
AM: 1 CPM / 10 CPM
PID: 7.8 ppm
DT: 0.011 mg/m³ 26 min.

Sample was taken where pipe next to the building. Because of space constraints a joint need not be found.

PA-UT009
Start time: 16:30
Sample time
Depth:
uR: 16
AM: 3 CPM
DT:
PID:
Tim walked 8" PVC pipe known under clogging.

10/28/04

PA-UT009
START TIME: 09:15
SAMPLE TIME: 09:30
DEPTH: 3' 6"
uR: 18/16
AM: 4 CPM / 4 CPM
DT: .006 mg/m³ 22 MIN.
PID: 8.7 PPM

MS/MSD
COLLECTE 3 SETS SAMPLES
SAMPLES TAKEN UNDER
10" CONCRETE PIPE @
COUPLING, SEWER

PA-UT010
START TIME: 10:15
SAMPLE TIME: 10:45
DEPTH: 19'
uR: 20/15
AM: 4CPM / 5CPM
DT: .009 mg/m³ 16MIN.
PID: 2.0 PPM

2X ~~MS/MSD~~
SAMPLES TAKEN FROM 24"
CONCRETE SEWER PIPE
CONNECTION W/MANHOLE
PA-DUP01 DUPLICATE OF
PA-UT010

10/28/04 CONT.

PA-UT 011
START TIME: 11:20
SAMPLE TIME: 12:10
DEPTH: 7'
uR: 18/14
AM: 5cpm/3cpm
DT: .005 mg/m³ 12 MIN.
PID: 1.4 ppm
SAMPLE TAKEN UNDER 24" CONCRETE SEWER PIPE CONNECTION W/MANHOLE

PA-UT 012
START TIME: 12:50
SAMPLE TIME: 13:15
DEPTH: 6'
uR: 14/11
AM: 2cpm/6cpm
DT: .034 mg/m³ 12 MIN
PID: 4.8 PPM
SAMPLE TAKEN UNDER 24" CONCRETE PIPE (SEWER) AT CONNECTION W/MANHOLE

PA-UT 013
START TIME: 1500
SAMPLE TIME: 1525
DEPTH: 8ft.
uR: 17/15
AM: 6cpm/6cpm
DT: .001 mg/m³ 24min
PID: 6.3 PPM
SAMPLE TAKEN UNDER 24" CONCRETE SEWER PIPE AT COUPLING 3FT. FROM MANHOLE.

10/29/04

PA-UT 014
START TIME: 1000
SAMPLE TIME: 1015
DEPTH: 7'
uR: 24/14
AM: 7cpm/3cpm
DT: 0.014 mg/m³ 26 min
PID: 0.4 PPM

10/29/04 CONT.

PA-UT015
START TIME : 1105
SAMPLE TIME : 1140
DEPTH : 5'
WR : 20/12
AM : 5CPM/2CPM
DT : .019 mg/m³ 22 MIN.
PID : 14.4 PPM

3X — MS/MSD
SAMPLES TAKEN UNDER COUPLING

PA-UT016
START TIME : 12:45
SAMPLE TIME : 13:00
DEPTH : 6 1/2
WR : 20/13
AM : 5CPM / METER INOP
DT : .019 mg/m³ 22 MIN
PID : 18.1 PPM

PA-UT015 & 016 ARE FROM THE SAME HOLE.

MONDAY 11/1/04

~~PA-UT017~~
START TIME : 0900
SAMPLE TIME :
DEPTH :
WR : 19/
AM :
DT : .015 mg/m³ 15 MIN
PID :
NOTE: ABANDONED HOLE - (3)
COULD NOT LOCATE PIPE

PA-UT017
START TIME : 1120
SAMPLE TIME : 1200
DEPTH : 4 1/2
WR : 20/16
(inop) AM :
DT : .025 mg/m³ 15 min
PID : 5.3 PPM

SAMPLE TAKEN AT BROKEN 6" CONCRETE COURLING ; APPROX. 10' PIPE MISSING

11/1/04 CONT.

~~PA-UT18~~

START TIME : 1230
SAMPLE TIME :
DEPTH :
WR : 18/
AM :
DT :
PID :
ABANDONED DIG SITE (4)
COULD NOT LOCATE PIPE

11/2/04 TUESDAY
PA-UT18
START TIME : 0715
SAMPLE TIME : 0800
DEPTH : 11½"
WR : 21/15
(inop) AM :
DT : .006 mg/m³ 35 min
PID : 16.6 PPM

SAMPLE TAKEN AT COUPLING

11/2/04 cont.
PA-UT19
START TIME : 0925
SAMPLE TIME : 0955
DEPTH : 11'
WR : 22/14
(inop) AM :
DT : 0.121 mg/m³ 21 min
PID : 20.0 PPM
SAMPLE TAKEN AT PIPE
CONNECTION W/MANHOLE

PA-UT20
START TIME : 1125
SAMPLE TIME : 1235
DEPTH : 8½'
WR : 17/16
(inop) AM :
DT : .054 mg/m³ 13 min
PID : 48.5 PPM
SAMPLE TAKEN FROM UNDER
COUPLING. — PA-DUPA2
DUPLICATE OF PA-UT20

11/6/04 Cont.

PA-UT21

START TIME : 1240

SAMPLE TIME : 1330

DEPTH : 10'

WR : 17/15

(Image) AM :

DT : .054 mg/M³ 13 min

PID : 1.6 PPM

6" PIPE INCASED IN ONE FOOT SQ. CONCRETE BOX ; SAMPLE TAKE AT CONNECTION W/ MANHOLE.

NOTE: SAMPLES PA-UT20 & 21 TAKEN FROM SAME DIG.

PA-UT22

START TIME : 1435

SAMPLE TIME : 1515

DEPTH : 8½'

WR : 18/11

(Image) AM :

DT : 0.103 mg/M³ 16 min

PID : 4.3 PPM

11/1/04

10:40 Sampled PA-EX01-A : Sampled 6" under staining

PID Sample : 4.6 ppm

WR Surface : 17

WR Sample : 16

12:00 Sampled PA-EX02-A 6" under staining.

WR Surface : 15 Sample : 8

PID Sample : 12.6 ppm

13:00 Sampled PA-EX03-A 6" under staining

Very oily Sample. smells of petroleum

WR Surface : 18 Sample : 10

PID Sample : 6.9 ppm

11/3/04 WEDNESDAY

PA-UT23
START TIME : 0815
SAMPLE TIME : 0845
DEPTH : 3'
WR : 17/14
(insp) AM :
DT : .011 mg/m³ 19 min
PID : 33.6 PPM
2" IRON PIPES, HIGH ORGANICS
SAMPLE TAKEN AT EDGE OF
CONCRETE SLAB

PA-UT24
START TIME : 0915
SAMPLE TIME : 0940
DEPTH : 4'
WR : 16/13
(insp) AM :
DT : .011 mg/m³ 19 min.
PID : 3.3 ~~mg/m³~~ PPM

11/3/04 Cont.:
PA-UT25
START TIME : 1030
SAMPLE TIME : 1100
DEPTH : 3'
WR : 17/14
(insp) AM :
DT : .032 mg/m³ 23 min.
PID : 709 PPM
MS/MSD
4 - 2" IRON PIPES TERMINATE
AT DIG AREA; ONE CAPPED,
ONE PLUGGED, TWO OPEN;
HIGH ORGANICS.

PA-UT26
START TIME : 1140
SAMPLE TIME : 1230
DEPTH : 4'
WR : 18/13
(insp) AM :
DT : .007 mg/m³ 15 min.
PID : 7.1 PPM
TAKEN AT 10" COUPLING; TWO
ONE 12"
PIPES RUNNING PARALLEL ONE 24"

11/4/04 THURSDAY

~~PA-UT27~~

START TIME : 0745
SAMPLE TIME :
DEPTH :
WR : 22/
AM :
DT : .002 mg/m³ 27 min.
PID :
DIG SOIL WR: 21/20/20/20
ABANDONED DIG SITE #5
FILLED TRENCH: DT: .045 mg/m³
36 min. TRENCH 50' LONG X 10' DEEP.

~~PA-UT27~~

START TIME : 1145
SAMPLE TIME :
DEPTH :
WR : 24/
(inop) AM :
DT : .013 mg/m³ 17 min.
PID :
DIG SOIL WR: 20/21
ABANDONED DIG SITE #6
TRENCH 20' LONG X 10' DEEP

11/4/04 Cont.

PA-UT27
START TIME : 1410
SAMPLE TIME: 1445
DEPTH : 5
WR : 26/15
(inop) AM :
DT : .012 mg/m³ 17 min.
PID : 0.0 PPM
DIG SOIL WR: 40/26
HOLE PID : 0.0 PPM

11/5/04 FRIDAY
PA-UT28
START TIME : 0800
SAMPLE TIME : 0850
DEPTH : 1½"
WR : 45/18
(inop) AM :
DT : .011mg/m³ 27min
DIG AREA PID : 0.0 PPM
SAMPLE PID : 0.0 PPM
STOCK PILE WR : 45
SAMPLE TAKEN FROM OPEN DITCH

PA-EBA1
TIME : 0945
EQUIPMENT RINSATE BLANK
SAMPLE TAKEN OF BACKHOE
BUCKET & HAND TROWEL
TAKEN AFTER PA-UT28

11/5/04 Cont.
PA-UT29
START TIME : 0945
SAMPLE TIME : 1015
DEPTH : 1½"
WR : 140/27
(inop) AM :
DT : .012mg/m³ 27min
DIG AREA PID : 0.0 PPM
SAMPLE PID : 0.0 PPM
STOCK PILE WR : 110
SAMPLE TAKEN FROM OPEN
DITCH.

PA-UT30
START TIME : 1145
SAMPLE TIME : 1240
DEPTH : 1½"
WR : 15/16
(inop) AM :
DT : .013mg/m³ 24min
DIG AREA PID : 0.0 PPM
SAMPLE PID : 0.0 PPM
STOCK PILE WR : 17/18

11/5/04 cont.
PA-DUP A3
DUPLICATE OF PA-UT30

NOTES:
1) PROJECTION: NEVADA STATE PLANE, WEST ZONE 1927 NORTH AMERICAN DATUM (FEET)
2) BASE PHOTO TAKEN OCTOBER 3, 2001

EXPLANATION

SPENT SOLUTION
ACID
FUEL
DRAIN
SEWER
EXCAVATION LOCATION

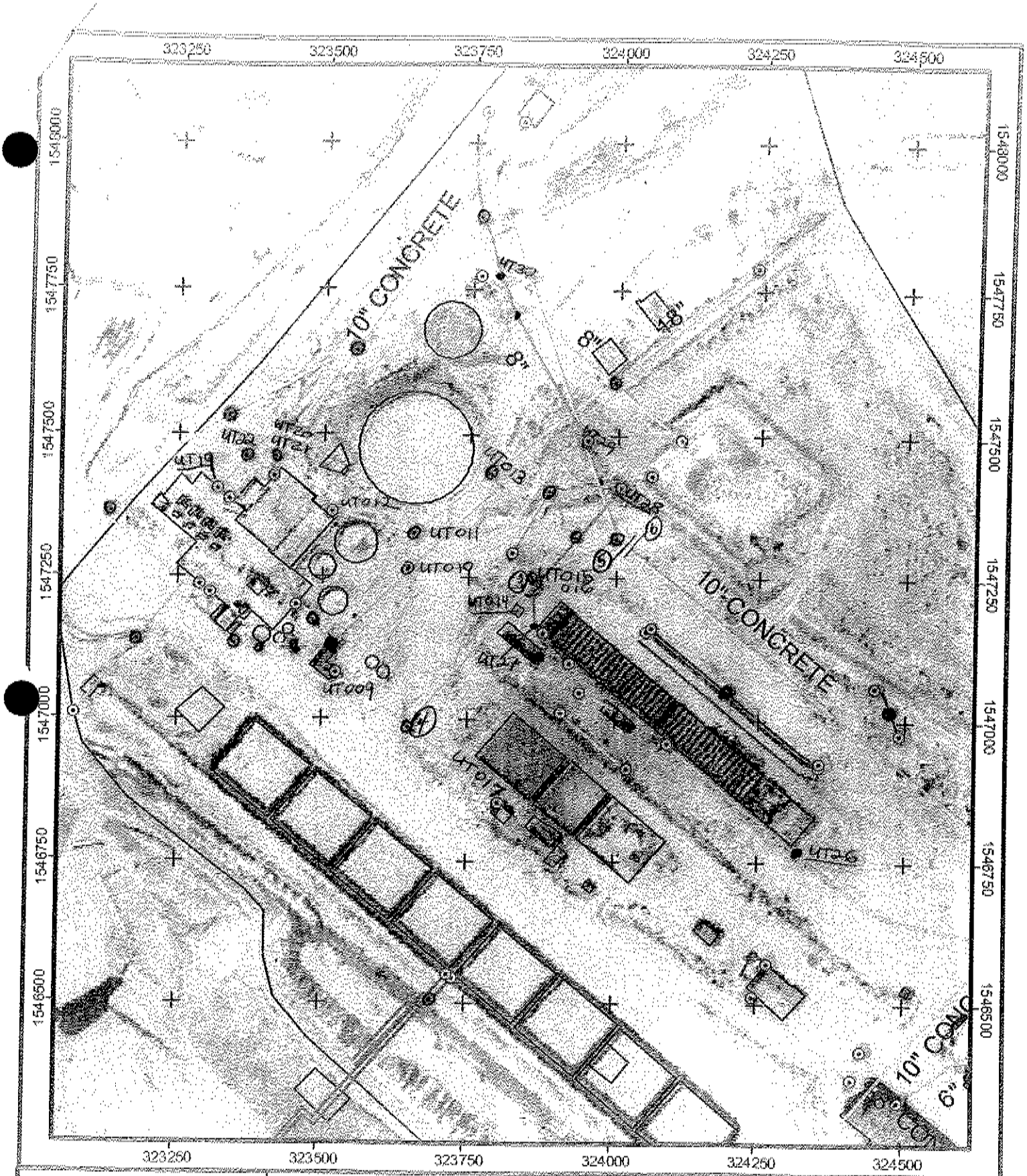
DATE: DECEMBER 2003

PROJECT NUMBER: 21243

SCALE: 100 0 100 Feet

N

FIGURE 6B
PROCESS AREAS
UNDERGROUND PIPING



NOTES:
1) PROJECTION: NEVADA STATE PLANE, WEST ZONE (83) / NORTH AMERICAN DATUM (FEET)
2) BASE PHOTO TAKEN OCTOBER 3, 2003

EXPLANATION

SPENT SOLUTION
ACID
FUEL

DRAIN
SEWER

EXCAVATION LOCATION

DATE: DECEMBER 2003

PROJECT NUMBER: 21043

SCALE:
100 0 100 Feet
1 inch

N

FIGURE 6A
PROCESS AREAS
UNDERGROUND PIPING

P:\21043\GIS\Facility Area\Underground Piping\FIGURE_6A

PA - EB A1

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BACKHOE

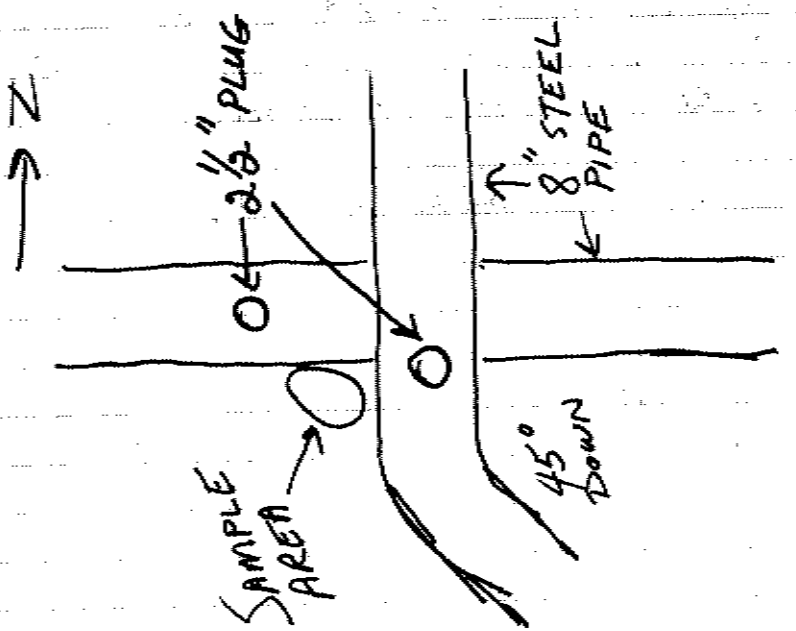
BOOK 2

11/19/04

PA-UT 45
DT: 0.005 20 min.
Sample Time: 9:30
Depth: 6-6.5 feet
Dig Area uR: 17 uR/hr
Stock pile uR: 16 uR/hr.
Sample uR: 15 uR/hr.
AM: 3 cpm
Dig Area PID: 0.0
Sample PID: 1.4 ppm

Taken under 4" steel drain pipe. While excavating rubber seal on pipe fitting broke and pipe seperated. Sample was taken where pipe had seperated.

11/22/04 Monday
PA-UT 46
DT: 0.005 mg/m³ 72 min
SAMPLE TIME: 0930
DEPTH: 4.5-5
DIG AREA uR: 17
STOCK PILE uR: 18/19/20
SAMPLE uR: 12
AM: 6 CPM
DIG AREA PID: 0.0 PPM, 14 min
SAMPLE PID: 1.9 PPM



11/22/04 Cont.
PA-UT47, MS/MSD, PA-UT47f
DT: 0.012 mg/m³ 41 min.
SAMPLE TIME: 1245
DEPTH: 6 - 6½'
DIG AREA wR: 17
STOCK PILE wR: 16/17
SAMPLE wR: 13
AM: 4 CPM
DIG AREA PID: 0.0 PPM, 4 min
SAMPLE PID: 1.9 PPM
SAMPLE TAKEN UNDER 6" IRON SEWER PIPE AT CONNECTION WITH CONCRETE PIPE. (next to admin.)

DECON BACKHOE BUCKET

DIG SITE #9 — 30FT. LONG X 6FT. DEEP — COULD NOT LOCATE PIPE!

11/23/04 Tuesday
Began w/backhoe @ 07:00
Setup on dig location;
0930 backhoe hydraulic ram developed oil leak. Weld repair by driller
1000 resumed dig.
1030 terminated dig;
DIG SITE #10
40FT. LONG X 10FT. DEEP

DECON BACKHOE BUCKET

11:20 began new dig
PA-UT48
DT: 0.015 mg/m³, 103 min.
SAMPLE TIME: 1245
DEPTH: 3' - 3½'
DIG AREA wR: 17
STOCK PILE wR: 16/18
SAMPLE wR: 12
AM: 4 CPM
DIG AREA PID: 0.0 PPM, 43 min.
SAMPLE PID: 1.4 PPM
TAKEN BETWEEN 4" & 8" IRON PIPES, RUNNING PARALLEL, AT WELD JOINTS.

11/23/04 Cont.
1330 BACKHOE ENDED DAY

WORK SHUT-DOWN DUE TO WEATHER

12/9/04 THURSDAY
RESUME WORK
DECON BACKHOE BUCKET
CONTINUE SAME WORK AREA AS PAUT-48 (SAME DIG AREA)
PA-UT 49
DT: .017 mg/m3 40 min.
SAMPLE TIME: 11:00
DEPTH: 4' - 4.5'
DIG AREA WR: 16
STOCK PILE WR: 18
SAMPLE WR: 12
AM: 5 CPM
DIG AREA PID: 0.0 PPM
SAMPLE PID: 0.9 PPM
TWO 12" TRANSITE PIPES RUNNING PARALLE; SAMPLE TAKEN FROM PIPE ON NORTH SIDE, UNDER COUPLING.

12/9/04 Cont.
PA-UT 50
SAMPLE TIME: 11:50
DEPTH: 4.5' - 5.0'
SAMPLE WR: 12
AM: 3 CPM
SAMPLE PID: 0.7 PPM
SAME DIG AREA AS PAUT-50
SAMPLE TAKEN FROM PIPE ON SOUTH SIDE, UNDER COUPLING.
NOTE: SEE PA-UT49 FOR DATA.

13:00 SECURED BACKHOE WORK FOR THE DAY.

12/15/04 Wednesday
07:00 on site: R. LAUSTER
M. WEEKS
D. McBRIDE

Set up for taking samples
Decon Backhoe bucket

~~PA-UT 51~~
~~PA-UT 50~~
DT: 0.010 mg/m³ 43 min.
SAMPLE TIME: 09:15
DEPTH: 3.0 – 3.5 FT.
DIG AREA UR: 17
STOCK PICE UR: 18
SAMPLE UR: 12
AM: 4
DIG AREA PID: 0.0 PPM
SAMPLE PID: 0.0 PPM

SAMPLE TAKEN UNDER 4" IRON PIPE COUPLING.

DECON BACKHOE BUCKET

12/15/04 Cont.
~~PA-UT 51~~ PA-UT 52
DT: 0.009 mg/m³ 30 min.
SAMPLE TIME: 12/16/04 08:45
DEPTH: 13.0-13.5
DIG AREA UR: 18
STOCK PILE UR: 17/17/17
SAMPLE UR: 12
AM: 5 CPM
DIG AREA PID: 0.0 PPM
SAMPLE PID: 0.0 PPM

13:30 STOPPED DIG, BACKHOE LOW ON HYDRAULIC FLUID; MIKE DEPARTED SITE.

12/16/04 Thursday
07:00 CONTINUE DIGGING ON PA-UT 52
SEE ABOVE FOR DATA
ALSO TOOK SAMPLE PA-UT 52 b, DUPLICATE.

12/16/04 Cont.
DECON BACKHOE BUCKET

PA-UT53
DT: 0.022 mg/m³ 19 min
SAMPLE TIME; 12:30,
DEPTH: 2.0 – 2.5
DIG AREA μR: 38
STOCK PILE μR: 23/23/21
SAMPLE μR: 13
AM: 10 CPM
DIG AREA PID: 0.2 PPM
SAMPLE PID: 0.5 PPM

12" TRANSITE PIPE; SAMPLE TAKEN UNDER COUPLING.

DECON BACKHOE BUCKET

15:00 SECURED BACKHOE

12/17/04 Friday
07:00 ON SITE: R. LAUSTER
M. WEEKS
D. McBRIDE

PA-UT54
DT: 0.034 mg/m³ 19 min.
SAMPLE TIME: 09:00
DEPTH: 2.5 – 3.0 FT.
DIG AREA μR: 27
STOCK PILE μR: 23
SAMPLE μR: 12
AM: 5 CPM
DIG AREA PID: 0.0 PPM
SAMPLE PID: 0.9 PPM

TWO 12" TRANSITE PIPES RUNNING PARALLEL; TOOK SAMPLE FROM PIPE ON EAST SIDE UNDER COUPLING.

PA-UT55
SAME DATA AS ABOVE, SAME DIG AREA. SAMPLE TIME: 09:20

12/20/04 Monday
07:00 arrived on site
Mike began
13:00 Mike stopped for the day.

12/21/04 Tuesday
Surface samples
PA-UT56
Sample time : 11:00
Depth : .5 - 1.0 ft.
Area uR: 28
Sample uR: 12
AM: 7 CPM
Sample PID: 1.4 PPM

PA-UT 57
Sample time = 11:30
Depth : .5 - 1.0 ft.
Area uR: 24
Sample uR: 12
AM: 7 CPM
Sample PID : 2.1 PPM
also took MS/MSD

12/21/04 Cont.
PA-UT569
trip blank

PA-UT58
Sample time = 12:45
Depth : .5 - 1.0 ft.
Area uR: 17
Sample uR: 11
AM: 6 CPM
Sample PID: 1.8 PPM

PA-UT 59
Sample time : 13:00
Depth : 0.5 - 1.0 ft.
Area uR: 17
Sample ur : 11
AM: 5 CPM
Sample PID: 1.9 PPM

12/21/04 Cont.

PA-UT60
Sample time: 13:30
Depth: 0.5-1.0 ft.
Area μR: 17
Sample μR: 14
AM: 7 CPM
Sample PID: 12.1