

APPENDIX C
DATA VALIDATION RESULTS

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The laboratory analytical data generated during the sampling event were validated according to procedures for cursory validation outlined in the Tetra Tech EM Inc. data validation statement of work. Data validation is a systematic process for reviewing and qualifying chemical data against a set of criteria to evaluate whether the data are adequate for their intended use. cursory review of the analytical reports for the analytical methods included evaluating the following parameters, as applicable: holding times, initial and continuing calibrations, laboratory blanks, accuracy, laboratory precision, and analytical or matrix performance. An overall assessment of the data was also conducted.

The following subqualifiers were added to analytical results presented in Tables 4 and 5 to indicate that the quality control criteria were not met:

- b – laboratory blank contamination, results are considered nondetected.
- c – initial or continuing calibration criteria were not met, results are considered estimated.
- g – result were detected below the reporting limit, results are considered estimated.
- j - Other qualifications, such as two column confirmation variance and system performance; therefore, the results are considered estimated.

**APPENDIX D
FIELD NOTES**

Field Logbook No. _____

Date _____

Project No. _____

Project Name _____

Cue sample was taken from each small open area and mixed inumping station.

A light sheen was visible on the water. A surface sample of the red soil was collected. Two subsamples of the top 6" of sediment from the ditch were mixed.

Pole Barn:

0.1 was sprayed in this area to control dust. The area is covered with a large size gravel. Two composite samples were taken at exposed, low spots on each side of the pole barn.

Field Logbook No. _____

Date _____

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0800 - arrive at West Pond Site
performed safety briefing

Point IDs:

farm yard:

CRFY006

CRFY007

" 008

" 009

" 010

" 019 - pump canal

Pole Barn:

CRPBS01

CRPBS02

" 003

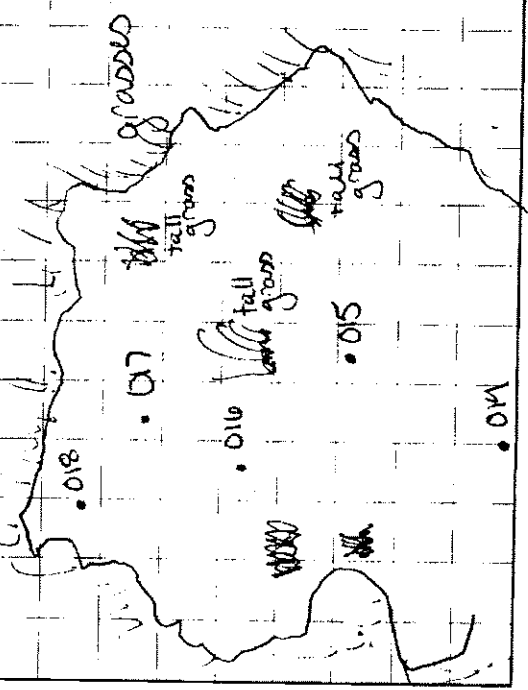
" 004

" 005

CREP011
CREP012
CREP013

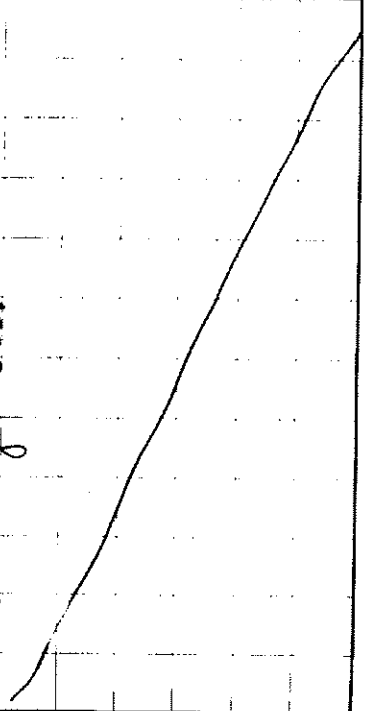
West Pond:

CRWP014 - most northern location.
Area is flat with distichlis
around the edges. Salt crystals
are present near the edges.
CRWP018 - most southern location



Farmyard:

Pump canal: red sheen on
water, stagnant water in canal
CRFY019 location on northern end
of canal. mouth of canal is at
southern end. Red material on
water flakes apart when disturbed.
Attempted to collect samples
at the west pond and the
pump canal with 3" plastic
tubes. Soil was too compacted
for the large tubes.



Field Logbook No. _____

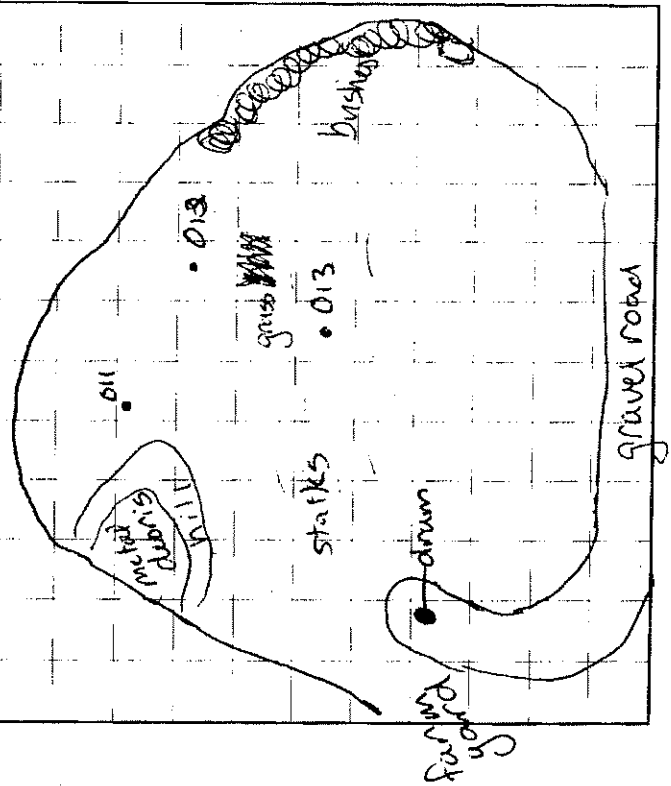
Date _____

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East Pond Area:

Empty, rusted drum, other rusted metal debris, shotgun shell, wood pilings, and other debris located in low lying area near farmyard foundations.



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East Pond

CREP013 - located in area with (10H5) old stalks, Red staining apparent in the area. ^{Surface sample} Taken from 1-3'

Depth sample taken at 7"

CREP011 - debris located on hill (111X) area near location. Salt crystals (1103) all around. Clay pot located 1-3' w in 4ft of sample. Low lying 7" area of pond. No water present.

CREP012 - salt crystals and (1105) salt grass present next to (1120) location. Samples taken at 3" and 9"

Point IDs

CREP011 - FWCR55021 (0-3)
FWCR55022 (0-12)

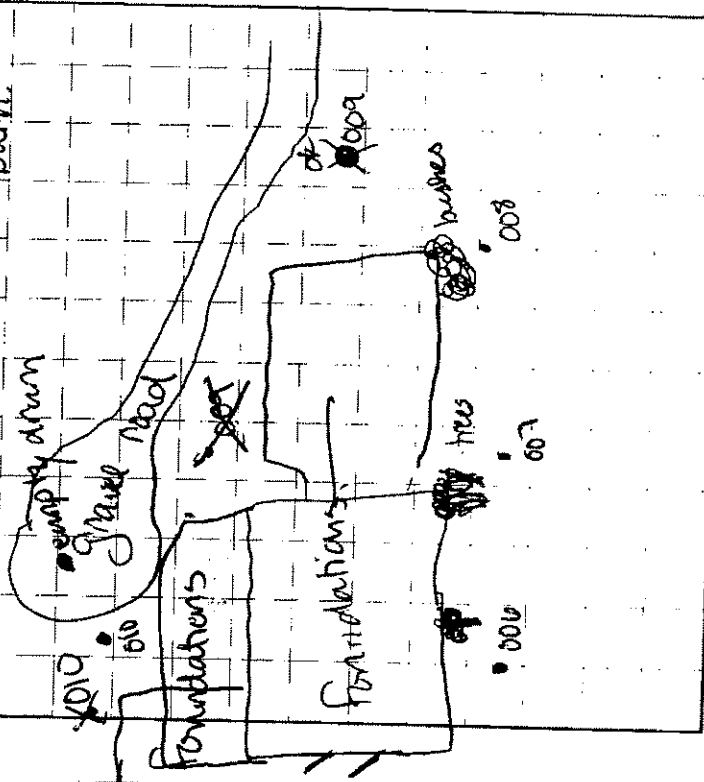
CREP013 - FWCR55015
(0-3)

CREP012 - FWCR55023 (0-3)
FWCR55024 (0-12)

FWCR55024
(0-12)

Farmyard:

Building foundations, rusted metal debris, more vegetation in area. Foundations appear to be house, garage/storage area, and equipment barn.



CRFY006 - photos taken from 1st a distance and 2nd up close

Sample times:

FWCRS011 (2-3") - 12:00

FWCRS012 (9-10") - 12:05 - used hand

to pull soil into jar

both samples had more roots

embedded

Cattails in area

thick roots on top of soil (2-3")

CRFY007 -

Sample times:

FWCRS013 (1-2") - 12:15

FWCRS014 (10") - 12:20

Two shovels deep, clean breaks

roots in soil, less cattails

thick weeds/grass on top of soil (2-3")

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CRFY008 -

Sample times:

FWCRSS015 (~~015~~) - 1230

FWCRSS016 (~~016~~) - 1235

pellets (deer or rabbit) all around much less leaf matter (1 inch) close to concrete structure

CRFY009:

several pictures taken ~~through~~

~~sample location~~ ^{sample for moved}

long grass above soil (1.5")

Sample times:

FWCRSS017 (1") - 1255

FWCRSS018 (7.5") - ~~1300~~ 1345

large rocks in soil - difficult to push through

~~sample~~ from west side of foundation

Field Logbook No. _____

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CRFY010: originally

22' 10" from west side of foundation.

photos taken of original location soil too difficult to break through - gravel, rocks, new location 39' north of

original location, 3 1/2' north west of

gravel area, root matter under north corner

Soil stratified to 10'

Sample times:

FWCRSS019 (13") - ~~1405~~

FWCRSS020 (6-7") - 1410

Field Logbook No. _____

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Project Name _____

Pole Barn:

- CRP001:
 Sample Times:
 FWCR55001 (2") - 1535
 FWCR55002 (6-7") - 1540
 very rocky - lots of gravel
 soil very crumbly
 fennel all around
 fennel debris (3") on top of soil

- CRP002:
 metal debris nearby
 low area near poles of barn
 Sample Times: 1.5"
 FWCR55003 (~~2"~~) - 1550
 FWCR55004 (~~2"~~) - 1600
 very rocky, lots of gravel
 crumbly soil
 fennel debris on top

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Project Name _____

- CRP003:
 Sample Times:
 FWCR55005 (~~2"~~) - 1610
 FWCR55006 (~~2"~~) - 1620
 SE corner of pole barn
 large pieces of metal debris
 nearby
 very difficult to dig through
 large rocks and gravel

- CRP004:
 Sample Times:
 FWCR55007 (3") - 1640
 FWCR55008 (8") - 1645
 clay soil - blue
 rocky, mulch on top
 NW corner of barn

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- CRP1005:

Sample times:

FWCRSS009 (1-2") - 1655

FWCRSS010 (1") - 1715

Feces/pellets nearby (human, deer/rabbit)

Fennel mulch covering soil (3")

tall bushes ~~at~~ between trees

and location

very rocky and hard soil

1730 - End of Day

9/1/13

- Move Island field room from 1045am to 2pm. Waiting for servers which were never delivered
-> First headed out to the pump canal, adjacent to and behind the farm yard building.

FWCRSS037 - (0-3")
FWCRSS038 - (6-12")

CRFY019 - Canal channel

Sample

Surface sample 0-3"

@ 3pm

↳ FWCRSS037 - Soil sample

Field Logbook No. _____

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Project Name _____

#6-7 inln sample @ 315pm
↳ FWCR55038

↳ Sediment!

→ Red cakey material
on top of H₂O (see
photos).

→ In some areas around
the sample location
is glossy sheen is
noticeable.

- The 7 inch sample has H₂O in it.

- The sample location is
approximately 8 feet
east of another

small canal, which
at this point is dry.

- woody debris is

noticeable both

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Field Logbook No. _____

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in the canal and along
the edges

- The sample taken from
0-3" (FWCR55037) had
black sediment (see 1
which appeared to
be product.

- Although there is
vegetation along the
canal, most is on
the top banks and
not located near the
(liquid) water.

1608

Arrive @ west pond to
take 5 pt. locations, 2
samples (0-3", 6-12")

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Field Logbook No. _____

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at each location
~~Sediment~~ Soil appears
 drier than it was
 yesterday morning.
 Not much vegetation
 up in the pond itself.
 One stand of cattails
 in the middle of
 the pond. Grass
 along all sides of
 the pond. Remove
 plastic core from
 yesterday @ 1612~~4~~

CRWP014

↳ FWCRSS027 (6-3")

FWCRSS028 (6-12")

FWCRSS027 taken @ 1615
@ 1 1/2 - 2"

FWCRSS028 taken @ 1620
@ 9.5" - 10"
Dark soil - dried and
breaks easy great
sample.

CRWP015 - arrive @ 1624
↳ FWCRSS029 (0-3") @ 1628
@ 2"

FWCRSS030 (6-12") @ 1634
@ 9"

CRWP016 - arrive @ 1637
FWCRSS031 @ 1643 @ 1"

FWCRSS032 @ 1647 @ 10"

Field Logbook No. _____

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The soil seems to be ~~thicker~~ thicker clayey as we come to the middle of the WP area. Soil is still very dark and breaks in large massive clumps. When we dig and drop w/ the shovel.

Arrive @ CRWP07 @ 1655
 FWCRSS033 @ 1.5" @ 1700
 FWCRSS034 @ 9" 1703
 Again, soil was more clayey, and darker.

Arrive @ CRWP018 @ 1709. This is the last

sample @ the west pond area. The sample was furthest North of the pond.

FWCRSS035 @ 1715 @ 12"
 FWCRSS036 @ 1725 @ 10"
 Again, noticeable salt crystals all along the outer bank of the west pond area.

The soil @ CRWP018 was the same in color but slightly looser and not as clayey.

End of sampling @ 1730

