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HORIZONTAL LINE

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No. 391



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FORESTRY - SUPPLIES

New Idria Mercury Mine
2010 EPA ESI
Weston Solutions, Inc.

4 5/8" x 7" - 48 Numbered Pages

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Tuesday July 6, 2010 Sunny 80's

10:45 Tom Fortner (Weston) on

Site at the New Idria Mercury Mine

11:00 Met with Brenden Proteus at the Stadler Ranch to arrange access.

11:15 Matt Mitgvard (EPA), Tim Moore (BLM) arrive at Stadler Ranch. Brenden shows us access to San Carlos, Silver, and Larios Creek.

12:00 Meet with Rob Heidy (and Mary Butterwick, Wilson Yee (EPA) and Kelly Bogher (BLM) who are assessing wetlands for the site.

13:00 Fortner, Mitgvard and Moore check access from south to Silver Creek. Wetland survey is conducted in San Carlos Creek + Silver Creek.

17:30 off site

[Signature]

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Wednesday 07/07/10 Sunny 80's

0915 on site at Town of Idria,

Meet with Rob Heidy, Mary Butterwick, Wilson Yee, Kelly Bogher

Head to Reservoir for Wetland Assessment.

11:00 Meet with Matt Mitgvard (EPA) + Tim Moore (BLM) to further assess access to Silver Creek from the North. Wetland Survey continues between Mine and Silver Creek.

13:00 Fortner, Mitgvard and Moore assess access to background location south of site.

16:00 - Mitgvard + Moore off site

16:40 - Wetland Assessment crew @ Paroche End of Silver Creek and have completed for the day

17:00 off site

[Signature]

Sunny, Hot - 95°
100°F

Monday 07/19/10

09:00 Tom Fortner, Alex Grubbs, and
Ian Bruce (all Weston) meet
at Paroche Road - I-5 Exit.

11:00 At the New Idria Mine Site,
go over logistics, procedures and
Tailgate Safety Meeting. [1153]

11:40 At location TL-3, Tailings Pile
near road, sieved 3 locations
and screened with XRF for the
highest Hg Concentration.

11:53 Sample collected from 3rd location
and was screened to have 269 ppm Hg.
The sample was weighed (fine and coarse)
to determine the % of fine material
passing through the sieve. ^{locations} was GPSed.

12:20 At location TL-4, [1235]
sieved and screened with XRF = 285 ppm
Hg from 2nd location and weighed.

12:35 Collected sample near AMD

12:45 - Lunch

13:45 At location TL-5, near Furnace
and AMD. L [1354]

13:54 Sieved and screened 3 samples and collected
2nd sample with XRF reading of 785 ppm Hg

14:35 At location TL-6 at hillside [1442]
Near ~~AMD~~

07/19/10

14:45 XRF stopped working with an error
message exceeding temperature threshold.
Procedure modified to collect samples
in plastic bags and sieve and
screen with XRF at the end of
the day.

15:05 At location TL-7, ^{Former dump} near top
of tailings pile [1631]

15:18 At location TL-8, down slope
collected sample @ [1646]

15:26 At location TL-9, approximately
1/2 way down slope [1710]

15:40 At location TL-10, towards bottom
collected duplicate sample TL-11
TL-10 [1731] ^{Volume for} and TL-11 [18:05]

17:15 Set up XRF that has cooled and
sieved samples TL-6 - TL-10
TL-6 Hg 60 ppm - measured prior to ^{XRF} ~~count~~
TL-7 Hg 19-36 ppm
TL-8 Hg 35-145 ppm
TL-9 Hg 41-71 ppm
TL-10 Hg 40-63 ppm

18:00 off site

~~Handwritten signature~~

07/20/10 Tuesday Sunny Hi: 80's

08:00 At Paroche Road/Silver Creek
Area to sample and wait for EPA/
BLM to arrive at ~ 9:00-9:30

08:15 At location SD-30 ^{8:23} Silver Creek
Collecting 3 ^{samples} locations from
each location and storing in
plastic bags in cooler with ice
for sieving, XRF screening, and
weighing at a later time.
Collected Calcine gravel

08:45 At location SD-31 ⁰⁸⁵⁰

09:05 Meet Matt Mitgauer ^{EPA} and Tim Moore ^{BLM}
Rob Herby ^{EPA} and Leah Butler ^{EPA} arrive

11:00 Drive to Stadler Ranch to begin
hike down Silver Creek to Paroche

11:27 At location SD-20 ¹¹³³
Collected Calcines Hg 260 ppm

12:12 At location SD-21 ¹²²⁰
XRF screened Calcine @ 11,359 ppm

12:48 At location SD-22 ^{12:50}
collected Calcine Hg - 34 ppm

13:33 At location SD-23 ¹³³⁹
collected Calcine Hg = ~~17~~ ppm

[Signature]

07/20/10

14:30 At location SD-24 ¹⁴³⁵

Spotted a Fox in Silver Creek
Canyon. Rob Herby also saw a
Western pond turtle in a pool
Collected Calcine. ^{20 ppm} A Monument
marking an oil well was located
near here.

14:56 At location SD-25 ¹⁵⁰⁰
DUP SD 60 ¹⁶⁰⁵ Collected Calcines - 146 ppm

15:25 At location SD-26 ¹⁵³⁰
collected Calcine - Hg 26 ppm

16:08 At location SD-27 ¹⁶¹⁵
Collected Calcines Hg < 15 ppm

16:38 At location SD-28 ¹⁶⁴⁰
collected Calcine Hg ~ 40 ppm

17:00 Back to Paroche Road.
Rob Herby and Leah Butler off site

17:45 Back to Stadler Ranch
Matt Mitgauer and Tim Moore
off site.

18:05 At location SD-19 ¹⁸²⁰
collected Calcines Hg < 12 ppm

18:45 Off site

[Signature]

Sunny
07/21/10 Wednesday Hot-80's

08:45 on site in Idria, Met with
Matt Mitguard and prepared to
collect samples for Methyl Mercury

0935 At location SD-2 @ San Carlos
Reservoir.

0945 Collected field blank SW-18
for Methyl Mercury using clean buckets/
dirty buckets.

10:00 Collected surface water SW-8
for Methyl Mercury first, followed
by filtered and unfiltered for metals.

10:00 Collect sediment sample SD-2
Water quality measurements recorded
on back of sediment sampling logs
for all water samples.

11:45 At location SW-4/SD16 on ^{Silver Creek} Stader
San Carlos. Thick growth of trees makes
access difficult. Collected water
samples SW-14 and SD16 @ 12:00

Collected Calcines - Hg = 92 ppm
14:00 At location SW-12/SD-14 in
Larios Creek, collected samples
at 1405. Collected Calcine - 22 ppm

14:45 At location SW-7/SD9 in
San Carlos Creek, collect samples
at 1505 and duplicate sample SW15

[Signature]

1805

07/21/10

1605 At sample location SW6/SD8
@ ~~collected from San Carlos Creek~~
~~downstream from AMD. Collected~~
samples @ 16:20. Calcines piles
are adjacent to sampling site.

1650 At sample location SW5/SD7
from AMD prior to discharge
to San Carlos Creek. Collected samples
at 1655 and duplicate SW-16 0805

17:10 At sample location SW-3/SD-3
in San Carlos Creek upstream from
AMD discharge and near Tailings
collected samples at 17:15

17:30 Off site

[Signature]

07/22/10 Thursday Sunny 16-80°s

08:00 Sample Management at Hotel
and pack water samples for
Methyl Mercury analysis. Ian
Bruce takes samples to FedEx in
Los Beros.

09:00 Alex Grubba and Tom Forner at
Stadter ranch.

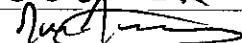
09:30 At sample location SD18 from
Silver Creek. Collected samples at
[0932] and Calcines = <15 ppm Hg.

09:50 At sample location SD-17 in
Silver Creek. Collected samples
at [0955]. Calcines = 27 ppm Hg.

10:15 Ian Bruce back from FedEx
drop off at Stadter Ranch gate

10:25 At sample location SD-15
San Carlos was dry at time location
and the planned water sample could
not be collected. Collected SD15
at [10:35]. Calcines = 203 ppm Hg

10:00 At sample location SD13. No
water in creek. Collected SD13
at [11:05]. Calcine = 20 ppm Hg

11:30 At sample location SD-12/SW-10
in San Carlos near where creek
flows over ~~the~~ Road 

7/22/10

[1140] Collected samples. Calcine = 33 ppm Hg

12:10 At sample location SW-8/SD-10
at Woods property in San Carlos creek
near water treatment tanks.

Collected samples at [1220] and
Calcines samples = 33 ppm Hg

13:50 At sample location SW-9/SD-11
located in a small tributary flowing
to East Branch San Carlos on
BLM land south of site (Background)

Samples collected @ [1353]

14:05 Collected background soil
sample SS-2 between the
small tributary and upper San Carlos
@ [1410]

14:35 At sample location SD-1 at
headwaters of San Carlos creek
stream was dry, but evidence
of recent flow was observed.

Collected sample @ [14:35]

Sample (SS-1) (background) was
collected up the hill and west of
SD-1 @ [14:35] Calcine like rock was
scraped ND.

1445 At sample location SW-1 from
flowing portion of San Carlos approx
200 feet downstream of SD-1 @ [1455]

7/22/10 Thursday

In San Carlos

1515 At Sample location BLM-SW-1A
as a background to Aurora Mine
@ [1520], Calcine like rock was seen

1545 At Sample location BLM SW-2
in San Carlos adjacent to Aurora
Mine, collected samples at [1547]
Calcines observed, Hg = 240 ppm

1557 At Sample location BLM SW-3
located in San Carlos downstream
of Aurora Mine near Reservoir
collected sample @ [1602], Calcines
collected contained 287 ppm Hg

1640 At Sample location SD-6 in AMD
collected orange sediment @ [1645]

1700 At Sample location SD-5 in AMD
collected orange sediment @ 17:05
and duplicate sample SD-5B [1705]

1715 At Sample location SW-4/SD-4
in AMD approx 10 feet from Adit
Samples collected @ [1730]

1800 off site

[Signature]

7/23/10 Friday

0800 Park on Paroche Road near Silver
Creek Stream Gage to Finish Sample

0828 At Sample location SD32 in
Silver Creek near Paroche Creek
collected sample SD32 @ 0830
Calcines collected, Hg = 21 ppm

0850 At Sample location SD-34
in Paroche downstream of
Silver Creek Confluence.
Sample collected @ [0857]
Very dense vegetation, no calcines found

0928 At Sample location SD-33 in
Paroche Creek upstream of
Silver Creek Confluence.
Sample collected at [0931]
Small calcine like rocks - Hg ND < 10 ppm

1018 At Sample location SD-29
in Silver Creek, collected sample
@ [10:22] Calcines collected, Hg 12 ppm

1030 off site to check out of hotel and
back to warehouse to process samples

[Signature]