


SOKKIA

ENGINEER'S
FIELD BOOK

Kottleman Hills

0742-816

SOLA

No. 8152-30

3/30

Set up decom
claimed 1st Set
bowls spoons.

Staked NE and SW
Areas with Rod

08/c

rough for 107
102 101 barrels
2000 2100

3/31/09

12:45 PCB Congener Sampling

D. Sala, M. Shengato, R. Eichen

M. Hite

9:50 SW-01

silty sand

J. Beach

Primarily glassy
~3 m offset

10:05 SW-02

~3 m offset from "dust"
silty sand

2 handfuls per
composite increment
for field split

10:20

SW-03

~3 m offset
silty sand

10:35

SW-04

~10 m offset
silty sand

10:50

SW-05

~8 m offset
silty sand

11:06

SW-06

~15 m up hill

silty sand (pebbles)
with rock (tied to)
(omit rock in sample)

3/31/09 KHF PCB

M.S. - Wenck

D.S. - Wenck

R.F. - WM

M.P. - EPA - 1X

J.B. EPA - 1X

11:21 SW-07

~ 2 m offset
silty sand

11:34 SW-08

~ 20 m offset
silty sand

11:46 SW-09

~ 7 m offset
silty sand

11:58 SW-10

no offset
silty sand
outside firebreak
inside fence and property line

3/31/09 KHF PCB

(cont'd)

SW-10

apparent storm water
runoff pathway

SW-FS

FS = Field Split

USEPA-1X collected
a field composite

ChM collected a duplicate
of the field composite

3/31/09 South Segment

S-10

offset 50' from Fence
(sm) silty sand
Time 3:44

S-9

offset \approx 100'
wide Fire break above
a bank
silty sand good
grass cover, roots
(sm) 16:00

S-8

offset 30' from Road
(sm)
good grass cover
16:15

3-31-09

S-7 75' offset

grassy area on top of hill
(sm) roots
16:30

S-6

slope grassy area
offset 30' from Rd
(sm) sand,
4:44

S-5

offset 40' Rd
(sm) Pinnate
Blank ss
17:05

3-31-09

S-4 offset 30' Pond
(5m) 17:15

S-3 offset 50
up top steep Bank
Area graded with
B-18 constructed
(RJF)

17:34

(5m)

S-2 offset 50'
short grass
17:48

3-31-09

S-1 offset 30' Rd
grassy / bare patches
17:59
(5m)

~~3-31-09~~
4/1/09

KAF

M. Shennaker

D. Sola

L. Fadden

M. Plave

J. Beach

8:01 AM

EPA IX arroyo

8:28 B-18-01

silty sand

- Location at fence between disturbed areas

- Green vegetation collected from edge of disturbed area to capture green growth

- soil collected from undisturbed area in grid

- All B-18 sample locations
Judgemental as determined
with guidance of J. Beach
and USEPA-IX

8:55 B-18-02

In drainage pathway
silty sand

4/1/09

9:10 B-18-03

Drainage pathway
with good potential
for deposition
silty sand

9:21 B-18-04

drainage pathway
silty sand

9:33 B-18-05

- inconsistent spacing
on sample based
on judgemental approach
- GPS coordinates
recorded and locations
flagged as with
all others
silty sand

4/1/09

9:52

B-18-06

silty sand
- low-lying area
between two disturbed
areas

- rinsate blank collected
in ~~from~~^{ns} area

290401 - B18-06-R

RJF 9:55

- plume of particulate
blew from B-18
toward DMS-1
slightly West of
swale area

10:12 ~~9:12~~^{ns}

B18 07

silty sand

10:30

B18-08

silty sand

4/1/09

10:43 B18-09

silty sand
low lying drainage
area

11:00 B18-10

silty sand
~5m from fence
Break to Decon, EPA-IX left site

13:45 SE-10

silty sand
some SE samples outside firebreak
inside fence

13:58 SE-09

silty sand
drainage path
outside firebreak

14:05 SE-8

silty sand
outside firebreak

4/1/09

SE-7 14:20

silty sand
inside firebreak
~ 1 m offset

SE-6 14:30

silty sand

~ 3 m offset

SE-5 14:45

silty sand

SE-4 14:58

silty sand

- Flag location in Environmentally sensitive area
- Make minimal disturbance to enter, sample, and exit

4/1/09

~ 10 m offset

15:15 SE-3

silty sand, offset ~ 1 m

15:22 SE-2

silty sand
offset ~ 1 m

15:33 SE-1

silty sand
offset 5 m
low lying drainage area
lots of sediment

SOKKIA

ENGINEER'S
FIELD BOOK

BACKGROWD
TEAM

WM-KHF
PCB Congenon
STUDY

No. 8152-30

MARCH 31, 2009

H/S BRIEF

SPEED LIMIT 15 MPH

ONLY DRILL ON FIRE BREAK

Security 6125

03/31/09
NE 10

WGS-84

For
London

SILTY SAND

2 m IN FIRM DARK FLAG

NE 9

GRASSES longer 12-18"

Ryegrass Blended w/ Salt Grass

SOME GREEN SALT GRASS

SOME GREEN GRASS

SILTY SAND

NE 8

100% RYE

SHORT TO GROUND 4-6"

ALL BROWN

SILTY SAND

NE 7

95% RYE

5% PLANT SAME

FEW GREEN RYE PLANTS

ALL BROWN

SILTY SAND

NE 6

95% BROWN RYE 6-8"

5% MISC DEAD SEEDS

SILTY SAND

NE 5

~~90% RYE, 10% Plant, unknown~~

~~SILTY~~

03/31/09

NE 5

90% BROWN DEAD RYE

10% P. clay unknown

SILTY SAND

NE 4

90% BROWN DEAD RYE

10% BROWN DEAD misc other

SILTY SAND

NE 3

IN A SWALE

6m South of Marked Flag

99% GREEN RYE 12-18"

SILTY SAND

NE 2

IN A SWALE

20 m S x 20 m W of MARK

99% RYE DEAD

1% other SILTY SAND

NE 1

99% Green GRASS - S. h. LAR looking
TO RYE

1% MISC other

SILTY SAND

N-1

7/31/09

SPARSE GRASS

SOIL STAIN

BROWN (ASSLED) RYE

90%

GREEN GRASS

10%

N-2

15-20 m IN FROM BROAD BOTTOM OF SWALE

90% MATURE / SEEDING GREEN RYE

10% SALT BUSH GRASS

SOIL STAIN MORE SAND THAN SILT

N-3

SPARSELY VEGETATED

100% SHORT BROWN RYE < 6"

SILTY SAND

N-4

SILTY SAND W/ ORANGE
AND ROCK

SPARSE VEG

100% RYE

BROWN < 6"

N-5

SILTY SAND

100% THICK DRY RYE 8"

03/31/09

N-6

* RINSATE BLANK

DENSE RYE < 12"

slightly shagreen green/mossy brown
SEEDS AT END

SILT/sand

N-7

90% DENSE RYE

BROWN
< 12"

10% BRISTLY PLANT (see Clipped from NE)

SILTY sand

N-8

100% RYE, SAME AS PREVIOUS

ALL W/ BROWN

N-9

100% Thick RYE

SOIL SAME

N-10

SAME AS PREVIOUS

Vegetation Collection Distribution
Dioxin-Like PCB Congener Sampling
Kettleman Hills Facility
Kings County, CA

Vegetation Sample Collection
Sampling Area: All
Date: 3/31/09 to 4/1/09
Stage: Green

Composite									
	W	NW	N	NE	SW	S	B-18	SE	Summary
Grasses (rye)	100%	85%	97%	92%	67%	89%	73%	84%	86%
Grasses	0%	0%	0%	0%	11%	0%	7%	0%	2%
Leaves	0%	8%	1%	8%	0%	6%	3%	2%	3%
Saltbrush	0%	2%	1%	0%	22%	0%	12%	14%	6%
Seeds	0%	0%	1%	0%	0%	4%	1%	0%	1%
Flowers	0%	5%	0%	0%	0%	2%	2%	0%	0.01
Forbs	0%	0%	0%	0%	0%	0%	0%	0%	0%
Fruits	0%	0%	0%	0%	0%	0%	0%	0%	0%
Whole Plant	0%	0%	0%	0%	0%	0%	4%	0%	1%

Vegetation Collection Distribution
Dioxin-Like PCB Congener Sampling
Kettleman Hills Facility
Kings County, CA

Vegetation Sample Collection
Sampling Area: W
Date: 4/1/2009
Stage: G

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Grasses										
Leaves										
Saltbrush										
Seeds										
Flowers										
Forbs										
Fruits										
Whole Plant										
Comments:										

Notes: Most rye grass had gone to seed based on the weather and time of year.

Vegetation Collection Distribution
Dioxin-Like PCB Congener Sampling
Kettleman Hills Facility
Kings County, CA

Vegetation Sample Collection
Sampling Area: NW
Date: 4/1/2009
Stage: G

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	99%	50%	50%	80%	95%	100%	100%	100%	80%	100%
Grasses										
Leaves	1%	50%		20%	5%					
Saltbrush									20%	
Seeds										
Flowers			50%							
Forbs										
Fruits										
Whole Plant										
Comments:	Dry flowering plant	Green plant with leaves and stems	Green rye grass. Small green plant with purple flowers	small green clover	Dry flowering plant					

Notes: Most rye grass had gone to seed based on the weather and time of year.

Vegetation Collection Distribution
Dioxin-Like PCB Congener Sampling
Kettleman Hills Facility
Kings County, CA

Vegetation Sample Collection
Sampling Area: N
Date: 3/31/2009
Stage: G

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	90%	90%	100%	100%	100%	99%	90%	100%	100%	100%
Grasses										
Leaves						1%	10%			
Saltbrush		10%								
Seeds	10%									
Flowers										
Forbs										
Fruits										
Whole Plant										
Comments:	Oats w/ seeds					Dry, flowering plant	partially green rye grass. Dry flowering pant			

Notes: Most rye grass had gone to seed based on the weather and time of year.

Vegetation Collection Distribution
Dioxin-Like PCB Congener Sampling
Kettleman Hills Facility
Kings County, CA

Vegetation Sample Collection
Sampling Area: NE
Date: 3/31/2009
Stage: G

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	99%	99%	99%	100%	90%	90%	95%	100%	50%	100%
Grasses	1%									
Leaves			1%		10%	10%	5%		50%	
Saltbrush		1%								
Seeds										
Flowers										
Forbs										
Fruits										
Whole Plant										
Comments:	rye and tall grass	Dry Saltbrush	Dry, Flowering Plant		Dry, Flowering Plant	Dry, Flowering Plant	Dry, Flowering Plant		Yellow, Green Flowering Plant	No Green

Notes: Most rye grass had gone to seed based on the weather and time of year.

Vegetation Collection Distribution
Dioxin-Like PCB Congener Sampling
Kettleman Hills Facility
Kings County, CA

Vegetation Sample Collection
Sampling Area: SW
Date: 3/31/2009
Stage: G

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	75%	75%	40%	30%	75%	50%	75%	95%	80%	75%
Grasses	20%	20%	5%	20%	9%		10%	5%	20%	
Leaves										
Saltbrush	5%	5%	55%	50%	15%	50%	15%			25%
Seeds										
Flowers					1%					
Forbs										
Fruits										
Whole Plant										
Comments:		underbrush, grass	underbrush, grass		one small yellow flower					

Notes: Most rye grass had gone to seed based on the weather and time of year.

Vegetation Collection Distribution
Dioxin-Like PCB Congener Sampling
Kettleman Hills Facility
Kings County, CA

Vegetation Sample Collection
Sampling Area: S
Date: 3/31/2009
Stage: G

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	90%	100%	100%	90%	70%	80%	80%	90%	100%	90%
Grasses										
Leaves	10%			5%	10%	10%	10%			10%
Saltbrush										
Seeds				5%		10%	10%	10%		
Flowers					20%					
Forbs										
Fruits										
Whole Plant										
Comments:										

Notes: Most rye grass had gone to seed based on the weather and time of year.

Vegetation Collection Distribution
Dioxin-Like PCB Congener Sampling
Kettleman Hills Facility
Kings County, CA

Vegetation Sample Collection
Sampling Area: B-18
Date: 4/1/2009
Stage: G

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	40%	100%	100%	90%	80%	65%	60%		100%	90%
Grasses								70%		
Leaves	10%							15%		
Saltbrush				10%	20%	35%	40%			10%
Seeds	10%									
Flowers	10%							5%		
Forbs										
Fruits										
Whole Plant	30%							10%		
Comments:	Fresh green plants included							Long grasses, flowers, large green leaves		

Notes: Most rye grass had gone to seed based on the weather and time of year.

Vegetation Collection Distribution
Dioxin-Like PCB Congener Sampling
Kettleman Hills Facility
Kings County, CA

Vegetation Sample Collection
Sampling Area: SE
Date: 4/1/2009
Stage: G

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	55%	90%	75%	75%	100%	90%	75%	95%	85%	100%
Grasses										
Leaves	5%		15%							
Saltbrush	40%	10%	10%	25%		10%	25%	5%	15%	
Seeds										
Flowers										
Forbs										
Fruits										
Whole Plant										
Comments:			reddish purple leaves							

Notes: Most rye grass had gone to seed based on the weather and time of year.



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: NE
Composite Name: 090330-NE-10-VG-WLB
Composite Increment: 10
Weather Conditions: SUNNY

Date: 8/31/09
Time: 09:45
Chain of Custody Number: 107208

35° 57' 52.623" N
120° 00' 15.065" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

~ 100 % RYE GRASS
✓
NO GREEN
MOSTLY DRIED STALKS

SAMPLE PREPARATION

Container:

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: NE
Composite Name: 090331-NE-9-VG-WLB
Composite Increment: 9
Weather Conditions: SUNNY - light breeze

Date: 3/3/09
Time: 1005
Chain of Custody Number: 107208

35° 57' 57.686" N
120° 00' 15.208" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

✓
✓
✓
✓
✓
✓
✓
✓

(sample in bag for ID)

50% rye grass

50% flowering plant
yellow & green

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-NE-8-VG-WJB

Composite Name: NE

Composite Increment: 8

Weather Conditions: sunny - slight breeze (E)

Date: 3-31-09

Time: 10:28

Chain of Custody Number: 107208

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

35° 58' 02.882" N

120° 00' 15.308" W

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

✓

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-NE-7-VG-~~SEH~~

Composite Name: NE

Composite Increment: 7

Weather Conditions: Sunny - light breeze (NE)

Date: 3-31-09

Time: 10:48

Chain of Custody Number: 107208

35° 58' 08.023" N

LOCATION DESCRIPTION 120° 00' 15.351" W

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

✓ _____
✓ _____

90%
100% rye grass
95% ↑

5% dry ~~floury~~ flowering plant

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-NE-6-VG-~~14~~ SEH

Date: 3-31-09

Composite Name: NE

Time: 11:05

Composite Increment: 6

Chain of Custody Number: 107208

Weather Conditions: sunny - light breeze (E)

35° 58' 13.214" N

LOCATION DESCRIPTION

120° 00' 15.332" W

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

_____✓_____
_____✓_____

90% rye

10% ~~fl~~ flowering (dry)

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 0910331-NE-5-VG-~~107208~~ SEH

Composite Name: NE

Composite Increment: 5

Weather Conditions: sunny - breezy (NE) 8-10

Date: 3-31-09

Time: 11:20

Chain of Custody Number: 107208

35° 58' 18.539" N

120° 00' 15.390" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

90% rye grass
10% dry flowering

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-NE-4-VG-~~WPS~~ SEH

Composite Name: NE

Composite Increment: 4

Weather Conditions: Sunny - breezy (NE)

Date: 3-31-09

Time: 11:35

Chain of Custody Number: 107208

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

35° 58' 23.448" N

120° 00' 15.633" W

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-NE-3-VG-6-SEH

Composite Name: NE

Composite Increment: 3

Weather Conditions: Sunny - light breeze (NNE)

Date: 3-31-08

Time: 11:50

Chain of Custody Number: 107208

35° 58' 28.321" N

120° 00' 15.406" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

99% rye grass (green)
1% dry flowering plant

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes Sample taken in swale approximately 68 m South
of pre-flagged area location.



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-NE-2-VG-~~W~~SEH

Date: 3-31-09

Composite Name: NE

Time: 12:05

Composite Increment: 2

Chain of Custody Number: 107208

Weather Conditions: sunny - light breeze (NNE)

35° 58' 33.242" N
120° 00' 15.531" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

✓
✓
✓

99% rye grass
1% dry saltbrush

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes Sample taken in swale approximate 8m south
of pre-flagged location.



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-NE-1-VG-103 SEH

Composite Name: NE

Composite Increment: 1

Weather Conditions: sunny light breeze (w)

Date: 3-31-09

Time: 12:22

Chain of Custody Number: 107208

35° 58' 34.183" N

120° 00' 19.432" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

99% rye grass
1% tall grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-N-1-VG-SEA
Composite Name: N
Composite Increment: 1
Weather Conditions: sunny-breezy (N)

Date: 3-31-09
Time: 15:28
Chain of Custody Number: 108097

35° 58' 38.033" N
120° 00' 23.163" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

10% oats w/ seeds
90% brown tassel rye grass

SAMPLE PREPARATION

Container:

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-N-2-VG-SFH
Composite Name: N
Composite Increment: 2
Weather Conditions: sunny breezy (NND)

Date: 3-31-09
Time: 15:45
Chain of Custody Number: 108097

35° 58' 40.302" N

LOCATION DESCRIPTION 126° 00' 25.804" W

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	<u>✓</u>
• saltbrush	<u>✓</u>
• grasses	<u>✓</u>
• seeds	<u>✓</u>
• flowers	<u> </u>
• forbs	<u> </u>
• fruits	<u> </u>
• whole plant	<u> </u>

90% rye
10% saltbrush

SAMPLE PREPARATION

Container:

Preservation:

- Shipping
- Packaging

Comments and Notes Sample taken 15-20m in a swale.



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-N-4-VG-SEH

Composite Name: N

Composite Increment: 4

Weather Conditions: sunny strong breeze (N)

Date: 3-31-09

Time: 16:15

Chain of Custody Number: 108097

35° 58' 40.327" N

LOCATION DESCRIPTION 120° 00' 38.161" W

- primarily grassy
- ~~scarce grass~~
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-N-5-VG-SEH

Composite Name: N

Composite Increment: 5

Weather Conditions: Sunny breeze (N)

Date: 3-31-09

Time: 16:38

Chain of Custody Number: 108097

35° 58' 40.150" N

LOCATION DESCRIPTION 120° 00' 44.854" W

- (primarily grassy)
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

100% rye w/seed
~~100% green saltbrush~~
~~50% forbs~~

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes moved 1st sample spot (ignore 1st set of pictures)



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331 - N-G-VG-SE11
Composite Name: N
Composite Increment: 6
Weather Conditions: Sunny breeze (N)

Date: 3-31-09
Time: 16:58
Chain of Custody Number: 108097

35° 58' 40.127" N

120° 00' 50.980" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

99% rye grass

1% dry flowering plant

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes

Rinsate Blank



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-N-7-VG-SEH

Composite Name: N

Composite Increment: 7

Weather Conditions: sunny strong wind (N)

Date: 3-31-09

Time: 17:11

Chain of Custody Number: 108097

35° 58' 40.110"N
120° 00' 57.286"W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

90% partially green ryegrass
10% dry bristly flowering plant

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-N-8-VG-SFH

Composite Name: N

Composite Increment: 8

Weather Conditions: Sunny breeze (N)

Date: 3-31-09

Time: 17:26

Chain of Custody Number: 108097

35° 58' 39.844" N

LOCATION DESCRIPTION 120° 01' 03.727" W

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

- Shipping _____

- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-N-9-VG-SF11
Composite Name: N
Composite Increment: 9
Weather Conditions: sunny breeze (N)
windy

Date: 3-31-09
Time: 17:39
Chain of Custody Number: 108097

35° 58' 39.802" N
120° 01' 10.032" W
~275' elevation

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

✓
✓

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-N-10-VG-SEH

Composite Name: N

Composite Increment: 10

Weather Conditions: sunny breeze (N)

Date: 3-31-09

Time: 17:52

Chain of Custody Number: 108097

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

35° 58' 39.703" N

120° 01' 16.320" W

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-NW-1-VG-SH-WLB

Composite Name: NW

Composite Increment: 1

Weather Conditions: sunny breeze (N)

Date: 4-1-09

Time: 8:30

Chain of Custody Number: 107206

35° 58' 39.643" N
120° 01' 22.646" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

99% ryegrass < 6"
1% flowering plant

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-NW-2-VG-~~SEH~~WLB

Composite Name: NW

Composite Increment: 2

Weather Conditions: Sunny windy (N)

Date: 4-1-09

Time: 8:45

Chain of Custody Number: 107206

35° 58' 39.697" N

LOCATION DESCRIPTION 120° 01' 28.997" W

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

✓
✓
✓
✓
✓
✓
✓
✓

50 % green plant w/leaves + stems
50 % rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-NW-3-VG-~~SE~~ WLB

Date: 4-1-09

Composite Name: NW

Time: 9:05

Composite Increment: 3

Chain of Custody Number: 107206

Weather Conditions: sunny windy (N)

35° 58' 39.614" N

LOCATION DESCRIPTION

120° 01' 35.821" W

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

✓
✓
✓
✓
✓
✓
✓
✓

50% green rye grass ~18"

30% small green flowering purple shrub

50% green rye grass ~18"

50% small green plant w/ purple flowers (flg)

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes

Vegetation
Sample located in washout area; soil sample
moved four feet away due to rattlesnake in area



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-NW-4-VG-54 WLB

Composite Name: NW

Composite Increment: 4

Weather Conditions: Sunny windy (PJ)

Date: 4-1-09

Time: 09:25

Chain of Custody Number: 107206

35° 58' 39.694" N
120° 01' 41.569" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

80% rye (50% short/50 taller darker brown)
20% small clover green)

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET
PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-NW-5-VG-SH1W2B

Composite Name: NW

Composite Increment: 5

Weather Conditions: sunny windy (N)

Date: 4-1-09

Time: 9:40

Chain of Custody Number: 107206

35° 58' 39.437" N

LOCATION DESCRIPTION 120° 01' 48.352" W

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

95% rye
5% dry flowering plant

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes GP St



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-NW-6-VG-SEA

Composite Name: NW

Composite Increment: 6

Weather Conditions: sunny windy (N)

Date: 4-1-09

Time: 9:53

Chain of Custody Number: 107206

35° 58' 37.427" N

120° 01' 48.977" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-NW-7-VG-SEH

Composite Name: NW

Composite Increment: 7

Weather Conditions: sunny very windy (N)

Date: 4-1-09

Time: 10:08

Chain of Custody Number: 107206

35° 58' 30.841" N
120° 01' 49.043" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes sift 65m south of pre flagged location to get
an undisturbed sampling area due to bare yard



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090401-NW-8-VG-SEH
Composite Name: NW
Composite Increment: 8
Weather Conditions: sunny windy (N)

Date: 4-1-09
Time: 10:25
Chain of Custody Number: 107206

35° 58' 26.872" N
120° 01' 48.921" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes 1 1/2 ft rattlesnake



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-NW-9-VG-SEA

Composite Name: NW

Composite Increment: 9

Weather Conditions: Sunny windy (N)

Date: 4-1-09

Time: 10:40

Chain of Custody Number: 107206

35° 58' 21.846" N

LOCATION DESCRIPTION 120° 01' 48.983" W

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves ✓
- saltbrush ✓
- grasses ✓
- seeds ✓
- flowers
- forbs
- fruits
- whole plant

80% rye grass taller 8-10"
20% salt brush dry

SAMPLE PREPARATION

Container:

Preservation:

• Shipping

• Packaging

Comments and Notes



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-NW-10-VG-SEH

Composite Name: NW

Composite Increment: 10

Weather Conditions: sunny windy (N)

Date: 4-1-09

Time: 10:56

Chain of Custody Number: 107206

35° 58' 16.806" N

120° 01' 49.032" W

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% ryegrass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET
PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-1-VG-~~WLB~~ WLB

Composite Name: W

Composite Increment: 1

Weather Conditions: sunny windy (N)
very

Date: 4-1-09

Time: 13:30

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

100% ryegrass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-2-VG-~~SEH~~WLB

Composite Name: W

Composite Increment: 2

Weather Conditions: Sunny windy (N)

Date: 4-1-09

Time: 13:40

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ _____
- seeds ✓ _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% ye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-3-V6-~~SA~~W4B

Composite Name: W

Composite Increment: 3

Weather Conditions: Sunny windy(N) dusty

Date: 4-1-09

Time: 13:50

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-4-VG-~~SEH~~WLB

Composite Name: W

Composite Increment: 4

Weather Conditions: sunny windy (N)

Date: 4-1-09

Time: 14:00

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

✓
✓

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes sample taken in a swale.



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-5-VG-~~SEA~~ WLB

Composite Name: W

Composite Increment: 5

Weather Conditions: Sunny windy (N)

Date: 4-1-09

Time: 14:20

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes Rinsate Blank 14:15



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-6-VG-~~SEA~~WLB

Composite Name: W

Composite Increment: 6

Weather Conditions: Sunny windy (N)

Date: 4-1-09

Time: 14:30

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

_____✓_____
_____✓_____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-7-VG-~~6~~WLB

Composite Name: W

Composite Increment: 7

Weather Conditions: sunny windy (N)

Date: 4-1-09

Time: 14:40

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

✓
✓

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-8-VG-~~SL~~WLB

Composite Name: W

Composite Increment: 8

Weather Conditions: sunny windy (N)

Date: 4-1-09

Time: 14:55

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ _____
- seeds ✓ _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-9-VG-~~SW~~WLB

Composite Name: W

Composite Increment: 9

Weather Conditions: sunny windy (N)

Date: 4-1-09

Time: 15:05

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401-W-10-VG-~~WLB~~

Composite Name: W

Composite Increment: 10

Weather Conditions: Sunny windy (N)

Date: 4-1-09

Time: 15:20

Chain of Custody Number: 108096

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% rye grass

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-SW-03
Composite Name: SW
Composite Increment: 03
Weather Conditions: 70°F - Clear

Date: 3/31/09
Time: 10:20
Chain of Custody Number: 127202

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves 55
- saltbrush 45
- grasses 45% with underbrush (~5%)
- seeds
- flowers
- forbs
- fruits
- whole plant

SAMPLE PREPARATION

Container: soil glass with foil covering

Preservation: 10/11

- Shipping
- Packaging bubble wrap in cooler

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-SW-02
Composite Name: SW
Composite Increment: 02
Weather Conditions: 70°F, clear

Date: 3/31/09
Time: 10:05
Chain of Custody Number: 10702

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	
• saltbrush	
• grasses	<u>75%</u> 20% under brush
• seeds	
• flowers	
• forbs	
• fruits	
• whole plant	
brush	<u>5%</u>

SAMPLE PREPARATION

Container: clear glass with foil cover

Preservation: N/A

• Shipping _____

• Packaging _____

Comments and Notes mostly grass (eye), under brush
~ 5% brush



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 0831-SW-01-VG
Composite Name: SW
Composite Increment: 01
Weather Conditions: 70°F - Clear
Wind NW → SE

Date: 3/31/89
Time: _____
Chain of Custody Number: 107202

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>75%</u> 20' b underbrush
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____
brush	<u>5%</u>

SAMPLE PREPARATION

Container: 500 mL clear glass with foil cover
Preservation: N/A (ice)

- Shipping _____
- Packaging bubble wrap

Comments and Notes primarily grass (rye), underbrush,
some brush (~5%)



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 040321-SW-04

Composite Name: CW

Composite Increment: 04

Weather Conditions: 70°F Clear wind

N to S

Date: 3/31/09

Time: 10:35

Chain of Custody Number: 107202

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- | | | |
|---------------|-------------|-----------------|
| • leaves | <u>50</u> | |
| • saltbrush | <u>50</u> | with underbrush |
| • grasses | <u>50</u> | |
| • seeds | <u> </u> | |
| • flowers | <u> </u> | |
| • forbs | <u> </u> | |
| • fruits | <u> </u> | |
| • whole plant | <u> </u> | |

SAMPLE PREPARATION

Container: 500 ml glass covered with foil

Preservation: N/A (ice)

• Shipping

• Packaging

Comments and Notes (rye) grass, attempting to pull



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-SW-05
Composite Name: SW
Composite Increment: 05
Weather Conditions: 70°F Clear
Wind N to S

Date: 3/31/09
Time: 10:50
Chain of Custody Number: 107202

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>85</u> (with under brush)
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____
brush	<u>15</u>

SAMPLE PREPARATION

Container: 500 ml clear glass covered with foil
Preservation: N/A (ice)

- Shipping _____
- Packaging _____

Comments and Notes one small yellow flower



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-SW-06
Composite Name: SW
Composite Increment: 06
Weather Conditions: 71°F Clear
Wind N to S

Date: 3/31/99
Time: 11:06
Chain of Custody Number: 107202

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses 50
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

brush 50

SAMPLE PREPARATION

Container: 500 mL clear glass cannered with foil
Preservation: N/A (ice)

- Shipping _____
- Packaging bubble wrap

Comments and Notes prickly brush at site (pic)



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-SW-07
Composite Name: SW
Composite Increment: 07
Weather Conditions: 70°F Clear

Date: 3/31/09
Time: 11:21
Chain of Custody Number: 107202

Wind N to S

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected 0/-

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

brush 15

SAMPLE PREPARATION

Container: 500 ml art glass

Preservation: N/A (ice)

• Shipping _____

• Packaging bubble wrap

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET
PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-SW-08
Composite Name: SW
Composite Increment: 08
Weather Conditions: 70°F Clear
Wind N to S

Date: 3/31/09
Time: 11:34
Chain of Custody Number: 107206

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: 500 ml clear glass covered with foil
Preservation: N/A (ice)

- Shipping _____
- Packaging bubble wrap

Comments and Notes grasses (rye) only with
corresponding underbrush
Breeze picking up



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-SW-09
Composite Name: SW
Composite Increment: 09
Weather Conditions: 70°F Clear
Wind N to S

Date: 3/31/09
Time: 11:46
Chain of Custody Number: 107202

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: 500 ml^{ns} glass, clear covered with foil
Preservation: (ice) N/A

- Shipping _____
- Packaging bubble wrap

Comments and Notes grass with lots of underbrush



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090331-SW-10
Composite Name: SW
Composite Increment: 10
Weather Conditions: 70°F Clear
Windy N-S

Date: 3/1/09
Time: 11:56
Chain of Custody Number: 107202

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses 75%
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____
- brush 25%

SAMPLE PREPARATION

Container: 500 ml - clear glass covered with foil

Preservation: N/A lice

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090331-5-10

Composite Name: 5

Composite Increment: 10

Weather Conditions: 70° clear

Date: 3/3/10

Time: 24:4

Chain of Custody Number: 340

15:40

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves 10%
- saltbrush
- grasses 70%
- seeds
- flowers
- forbs
- fruits
- whole plant

SAMPLE PREPARATION

Container:

Preservation: ice

• Shipping _____

• Packaging _____

Comments and Notes Mostly grass / under grass



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 033109-S-9
Composite Name: 5
Composite Increment: 9
Weather Conditions: Breezy, 70°

Date: 3/31/09
Time: 15:55
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation:

- Shipping ice
- Packaging _____

Comments and Notes slightly green grass with
seed heads



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 033109-5-8
Composite Name: 5
Composite Increment: 8
Weather Conditions: Breeze 700

Date: 3/31/09
Time: 16:10
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>90%</u>
• seeds	<u>10%</u>
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: Ice

- Shipping _____
- Packaging _____

Comments and Notes Seeds are pretty plants dry
14% grass



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 033109-5-7
Composite Name: 5
Composite Increment: 7
Weather Conditions: Breeze 70°

Date: 3/31/09
Time: 16:25
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	<u>10%</u>
• saltbrush	_____
• grasses	<u>80%</u>
• seeds	<u>10%</u>
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: live

- Shipping _____
- Packaging _____

Comments and Notes _____

ly/grass small plants with
seeds, curly leaves
mixed grass / Soil cover



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 3 033109-5-6
Composite Name: 5
Composite Increment: 6
Weather Conditions: Breese 70's

Date: 3-31-09
Time: 16:40
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	<u>100%</u>
• saltbrush	_____
• grasses	<u>80%</u>
• seeds	<u>10%</u>
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: ice

- Shipping _____
- Packaging _____

Comments and Notes slight slope



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 033109-55-RJP

Composite Name: 5

Composite Increment: 5

Weather Conditions: Breezy 70s

Date: 3-31-09

Time: 17:00

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

Rinsate blank
same ID

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves 10%
- saltbrush _____
- grasses 70%
- seeds _____
- flowers 20%
- forbs _____
- fruits _____
- whole plant _____

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes dry small flowers, ryegrass

dry leaves



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 033109-5-4-NJF

Composite Name: 5

Composite Increment: 64

Weather Conditions: Breezy 70's

Date: 3-31-09

Time: 17:12

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves 5%
- saltbrush _____
- grasses 70%
- seeds 10 5%
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

SAMPLE PREPARATION

Container: ice

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes lye grass, A few dried plants



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 033109-5-3-RJR

Composite Name: 5

Composite Increment: 3

Weather Conditions: Breez Sun 70's

Date: 3-31-09

Time: 17:30

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses 100%
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

SAMPLE PREPARATION

Container: 1/e

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 033109-52-RJR

Composite Name: 5

Composite Increment: 2

Weather Conditions: Sun 70

Date: 3-31-09

Time: 16:17:45

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses 100
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

SAMPLE PREPARATION

Container: _____

Preservation: _____

- Shipping _____

- Packaging _____

Comments and Notes lye grassed only at seal



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 633109-51-RJP

Composite Name: 5

Composite Increment: 1

Weather Conditions: Breezy 69°

Date: 3-31-09

Time: 1755

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves 80% dry
- saltbrush _____
- grasses 90%
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

SAMPLE PREPARATION

Container: 10e

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes Ryegrass / dried stems with leaves



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 90401-B18-01
Composite Name: B-18
Composite Increment: 01
Weather Conditions: 65°F Clear
Stiff / Light Breeze NW to SE

Date: 4/1/99
Time: 8:28
Chain of Custody Number: 108099

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	<u>✓</u> 10
• saltbrush	<u>✓</u> 40
• grasses	<u>✓</u> 10
• seeds	<u>✓</u> 10
• flowers	<u>✓</u> 10
• forbs	<u>✓</u> 30
• fruits	<u>✓</u> 30
• whole plant	<u>✓</u> 30

SAMPLE PREPARATION

Container: 500 ml[~] clear glass covered with foil

Preservation: N/A (ice)

- Shipping
- Packaging

Comments and Notes Vegetation taken from edge to capture
fresh, green plants.



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 070421-B18-02
Composite Name: B18
Composite Increment: 02
Weather Conditions: 65° (per)
Stiff Bruc NW → SE

Date: 4/1/09
Time: 8:55
Chain of Custody Number: 108099

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>✓</u> 100
• seeds	<u>✓</u>
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: 500^{ml} - clear glass covered with foil
Preservation: N/A (cc)

- Shipping _____
- Packaging _____

Comments and Notes Rye gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 00401-P18-05
Composite Name: B18
Composite Increment: 03
Weather Conditions: 6:57 Clear

Date: 4/1/08
Time: 9:10
Chain of Custody Number: 108098

Windy NW + SE

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ 100
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

SAMPLE PREPARATION

Container: 500 mL[~] clear glass covered with foil
Preservation: N/A (ice)

- Shipping _____
- Packaging _____

Comments and Notes Bye gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090401-B10-04
Composite Name: B10
Composite Increment: 04
Weather Conditions: 65°F clear
Wind NW to SE

Date: 4/1/09
Time: 9:21
Chain of Custody Number: 108099

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ 90
- seeds ✓ _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____
- brush 10

SAMPLE PREPARATION

Container: 500 mL clear glass covered with foil

Preservation: N/A (ice)

• Shipping _____

• Packaging _____

Comments and Notes drainage pathway, site gone to
seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090401 - R1E-25

Composite Name: R18

Composite Increment: 05

Weather Conditions: GS F Clear

Windy NW to SE

Date: 4/1/09

Time: 9:33

Chain of Custody Number: 108099

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ 80
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____
- brush ✓ 20

SAMPLE PREPARATION

Container: 500^{ml} - clear glass covered with foil

Preservation: 10/4 (ice)

• Shipping _____

• Packaging _____

Comments and Notes Rye gone to seed and taller grass
4-yr grass split 50/50



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: C90401-1317-06
Composite Name: B16
Composite Increment: 06
Weather Conditions: 65°F clear
Windy NW to SE

Date: 4/1/09
Time: 9:52
Chain of Custody Number: 108099

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• <u>grasses</u>	<u>✓</u> 65
• <u>seeds</u>	<u>✓</u>
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____
<u>brush</u>	<u>35</u>

SAMPLE PREPARATION

Container: clear glass covered with foil

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes 1. ye gone to seed
two types of grass, brush



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090401-B18-07
Composite Name: B18
Composite Increment: 07
Weather Conditions: 65° Clear
Windy NW to SE

Date: 4/1/09
Time: 10:12
Chain of Custody Number: 108099

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ 60
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant brush 40

SAMPLE PREPARATION

Container: 500 mL clear glass covered with foil

Preservation: N/A (ice)

• Shipping _____

• Packaging _____

Comments and Notes fly gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090401-1318.05
Composite Name: B18
Composite Increment: 08
Weather Conditions: 70 Clear
Strong Wind NW to SE

Date: 4/1/09
Time: 10:30
Chain of Custody Number: 108092

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	<u>✓ 15</u>
• saltbrush	<u> </u>
• grasses	<u>✓ 45⁴⁵ 70</u>
• seeds	<u> </u>
• flowers	<u>✓ 5</u>
• forbs	<u> </u>
• fruits	<u> </u>
• whole plant	<u>✓ 10</u>

SAMPLE PREPARATION

Container: clear glass covered with foil
Preservation: N/A (ice)

- Shipping
- Packaging

Comments and Notes Long grasses, flowers, large
green leaves



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 020421-B17-09
Composite Name: B17
Composite Increment: 09
Weather Conditions: 70, Clear
Breezy NW to SE

Date: 4/1/09
Time: 10:43
Chain of Custody Number: 108099

LOCATION DESCRIPTION

- ~~primarily grassy~~
- ~~scaree grass~~
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>✓</u> <u>100</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass covered with foil
Preservation: n/a (ice)

- Shipping _____
- Packaging _____

Comments and Notes lyc gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 040401-B18-10

Composite Name: B18

Composite Increment: 10

Weather Conditions: 70 Clear

Stiff Breeze NW to SE

Date: 4/1/04

Time: 11:00

Chain of Custody Number: 108099

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves
- saltbrush
- grasses ✓ 90
- seeds ✓
- flowers
- forbs
- fruits
- whole plant
- brush 10

SAMPLE PREPARATION

Container: clear glass covered with foil

Preservation: N/A Cite

• Shipping

• Packaging

Comments and Notes 140 gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 040411 - SE 10
Composite Name: SE
Composite Increment: 10
Weather Conditions: 75 clear

Date: 4/1/09
Time: 1:45
Chain of Custody Number: 127200

Strong Wind NWS

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>✓</u>
• seeds	<u>✓</u>
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass covered with foil
Preservation: N/A (ie)

- Shipping _____
- Packaging _____

Comments and Notes eye gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 091401-SE-09-2
Composite Name: SE
Composite Increment: 09
Weather Conditions: 75 clear
Strong Wind N + S

Date: 4/1/09
Time: 13:58
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>✓</u> <u>85%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____
<u>brush</u>	<u>15%</u>

SAMPLE PREPARATION

Container: clear glass w/ foil

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes eye gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 000401-SE-08
Composite Name: SE
Composite Increment: 08
Weather Conditions: 75 Sunny
Strong Wind N-S

Date: 4/1/09
Time: 14:05
Chain of Custody Number: 107209

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>✓</u> 45
• seeds	<u>✓</u> _____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____
<u>brush</u>	<u>5</u>

SAMPLE PREPARATION

Container: clear glass with foil covering

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes eye gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 040401-SE-07
Composite Name: SE
Composite Increment: 07
Weather Conditions: F5 Clear
Wind NW to SE

Date: 4/1/08
Time: 1420
Chain of Custody Number: 107200

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>✓</u> 75
• seeds	<u>✓</u>
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____
<u>brush</u>	<u>✓</u> 25

SAMPLE PREPARATION

Container: clean glass covered with foil

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes eye gone to red



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 0402101 - SE-06
Composite Name: SE
Composite Increment: 126
Weather Conditions: 75 Clear
Strong Wind NW → SE

Date: 4/1/09
Time: 1430
Chain of Custody Number: 107200

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ 90
- seeds ✓
- flowers _____
- forbs _____
- fruits _____
- whole plant _____
- brush 10

SAMPLE PREPARATION

Container: clear glass with foil covering

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes eye gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 0904.21-SE-05
Composite Name: SE
Composite Increment: 05
Weather Conditions: 75 clear
Wind NW to SE

Date: 4/1/09
Time: 4:45
Chain of Custody Number: 107200

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>✓</u> <u>100</u>
• seeds	<u>✓</u> _____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass covered in foil

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes rye gone to seed



PLANT TISSUE SAMPLING DATA SHEET
PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090401 ~ SE 04
Composite Name: SE
Composite Increment: 04
Weather Conditions: 75 Clear
Wind NW to SE

Date: 4/1/09
Time: 1500
Chain of Custody Number: 107200

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>✓</u> <u>75</u>
• seeds	<u>✓</u> _____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____
<u>brush</u>	<u>25</u>

SAMPLE PREPARATION

Container: clear glass w/ foil

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes rye with seeds gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090401-SE-03
Composite Name: SE
Composite Increment: 03
Weather Conditions: 75 Clear

Date: 4/1/08
Time: 1515
Chain of Custody Number: 197200

Strong Wind NW to SE

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	<u>✓</u> 15
• saltbrush	<u>✓</u>
• grasses	<u>✓</u> 75
• seeds	<u>✓</u>
• flowers	<u>✓</u>
• forbs	<u>✓</u>
• fruits	<u>✓</u>
• whole plant	<u>✓</u>
<u>brush</u>	<u>10</u>

SAMPLE PREPARATION

Container: clear glass covered in foil

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes rye gone to seed
reddish-purple plant,



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 890401-SE-02
Composite Name: SE
Composite Increment: 02
Weather Conditions: Clear 75

Date: 4/1/09
Time: 1522
Chain of Custody Number: 607200

Windy NW to SE

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ 90
- seeds ✓ _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____
- brush 10

SAMPLE PREPARATION

Container: clear glass w/ foil

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes eye gone to seed



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090401-SE-01
Composite Name: SE
Composite Increment: 01
Weather Conditions: 75 Sunny

Date: 4/1/99
Time: 15:33
Chain of Custody Number: 107200

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	<u>✓</u> 5
• saltbrush	<u> </u>
• grasses	<u>✓</u> 55
• seeds	<u> </u>
• flowers	<u> </u>
• forbs	<u> </u>
• fruits	<u> </u>
• whole plant	<u> </u>
brush	40

SAMPLE PREPARATION

Container: clear glass w/ foil

Preservation:

- Shipping
- Packaging

Comments and Notes eye and others


SOKKIA

ENGINEER'S
FIELD BOOK

Kottlemann Hills

0742-816

SOLA

No. 8152-30

8/3/09 KHF
PCB Congener Study
Dry Vegetation

0630 D. Saka
S. Holschusser
R. Fadden

Vegetation Dry Stage
Sampling

NW
N

NE Sampled

1200 M. Shoemaker
K. Bayler
arrive

W Area Samples

Dry conditions
Dusty

14:10 All samples have had
sufficient vegetation in
original sample m²

15:20 SW-S

Area extended 0.25m
in all directions
to collect sufficient
vegetation

8/4/09 KMF

PCB Conger
Dry Vegetation

0630 K. Baylor
S. Holshouser
D. Solis
M. Shumaker

arrive onsite

begin sampling S-10

S-10

Extended sampling
area ~ 0.5 m in all
direction to collect sufficient
mass

S-07

2 rattlesnake on ground

S-2 extended 1m in all
directions
very sparse vegetation

8/4/09

B-18-01

edges disturbed
flowers gone/
leaves dried up

1030 Lunch

11:15 begin sampling
SE

SE-09 Covered by
Tumbleweeds

Tumbleweeds moved and
flag replaced
sample collected

SE-08

pinaker blank
collected
1150

8/4/69

12:40 Samples Collected
from all locations

All sample jars wrapped in
foam and shipped on ice

Vegetation Collection Distribution
 WHO PCB Congener Sampling
 Kettlemand Hills Facility
 Kings County, CA

Vegetation Sample Collection
 Sampling Area: All
 Date: 8/3/09 to 8/4/09
 Stage: Dry

Composite									
	W	NW	N	NE	SW	S	B-18	SE	Summary
Grasses (rye)	100%	87%	99%	87%	84%	100%	88%	90%	92%
Grasses	0%	0%	0%	0%	0%	0%	0%	0%	0%
Leaves	0%	0%	0%	0%	0%	0%	1%	0%	0%
Saltbrush	0%	7%	1%	8%	17%	0%	12%	11%	7%
Seeds	0%	0%	0%	0%	0%	0%	0%	0%	0%
Flowers	0%	6%	0%	5%	0%	0%	0%	0%	0.01
Forbs	0%	0%	0%	0%	0%	0%	0%	0%	0%
Fruits	0%	0%	0%	0%	0%	0%	0%	0%	0%
Whole Plant	0%	0%	0%	0%	0%	0%	0%	0%	0%

Vegetation Collection Distribution
 WHO PCB Congener Sampling
 Kettlemand Hills Facility
 Kings County, CA

Vegetation Sample Collection
 Sampling Area: W
 Date: 8/3/2009
 Stage: Dry

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Grasses										
Leaves										
Saltbrush										
Seeds										
Flowers										
Forbs										
Fruits										
Whole Plant										
Comments:										

Vegetation Collection Distribution
 WHO PCB Congener Sampling
 Kettlemand Hills Facility
 Kings County, CA

Vegetation Sample Collection
 Sampling Area: NW
 Date: 8/3/2009
 Stage: Dry

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	99%	50%	50%	99%	95%	100%	100%	100%	80%	100%
Grasses										
Leaves										
Saltbrush		50%							20%	
Seeds										
Flowers	1%		50%	1%	5%					
Forbs										
Fruits										
Whole Plant										
Comments:		brush still green								

Vegetation Collection Distribution
 WHO PCB Congener Sampling
 Kettlemand Hills Facility
 Kings County, CA

Vegetation Sample Collection
 Sampling Area: N
 Date: 8/3/2009
 Stage: Dry

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	100%	90%	100%	100%	100%	99%	99%	100%	100%	100%
Grasses										
Leaves										
Saltbrush		10%								
Seeds										
Flowers						1%	1%			
Forbs										
Fruits										
Whole Plant										
Comments:										

Vegetation Collection Distribution
 WHO PCB Congener Sampling
 Kettlemand Hills Facility
 Kings County, CA

Vegetation Sample Collection
 Sampling Area: NE
 Date: 8/3/2009
 Stage: Dry

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	99%	99%	99%	100%	90%	90%	95%	100%		100%
Grasses	1%									
Leaves										
Saltbrush									80%	
Seeds										
Flowers		1%	1%		10%	10%	5%		20%	
Forbs										
Fruits										
Whole Plant										
Comments:										

Vegetation Collection Distribution
 WHO PCB Congener Sampling
 Kettlemand Hills Facility
 Kings County, CA

Vegetation Sample Collection
 Sampling Area: SW
 Date: 8/3/2009
 Stage: Dry

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	100%	100%	60%	65%	80%	60%	80%	100%	100%	90%
Grasses										
Leaves										
Saltbrush			40%	35%	20%	40%	20%			10%
Seeds										
Flowers										
Forbs										
Fruits										
Whole Plant										
Comments:										

Vegetation Collection Distribution
 WHO PCB Congener Sampling
 Kettlemand Hills Facility
 Kings County, CA

Vegetation Sample Collection
 Sampling Area: S
 Date: 8/4/2009
 Stage: Dry

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Grasses										
Leaves										
Saltbrush										
Seeds										
Flowers										
Forbs										
Fruits										
Whole Plant										
Comments:								limited seeds with grass		

Vegetation Collection Distribution
 WHO PCB Congener Sampling
 Kettlemand Hills Facility
 Kings County, CA

Vegetation Sample Collection
 Sampling Area: B-18
 Date: 8/4/2009
 Stage: Dry

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	60%	100%	100%	100%	80%	65%	90%	85%	100%	100%
Grasses										
Leaves	5%									
Saltbrush	35%				20%	35%	10%	15%		
Seeds										
Flowers										
Forbs										
Fruits										
Whole Plant										
Comments:	no flowers or whole plants available, leaves small dry and shriveled							leaves of plant appeared to be ragweed		

Vegetation Collection Distribution
 WHO PCB Congener Sampling
 Kettlemand Hills Facility
 Kings County, CA

Vegetation Sample Collection
 Sampling Area: SE
 Date: 8/4/2009
 Stage: Dry

	Increment									
	1	2	3	4	5	6	7	8	9	10
Grasses (rye)	60%	90%	80%	100%	100%	90%	80%	100%	95%	100%
Grasses										
Leaves										
Saltbrush	40%	10%	20%			10%	20%		5%	
Seeds										
Flowers										
Forbs										
Fruits										
Whole Plant										
Comments:	woody tips, leaves and plants gone	very dry brush and grass	small leaves with dry underbrush			brush was woody tips				

Notes:



PLANT TISSUE SAMPLING DATA SHEET
PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 890804-B18-01
Composite Name: B18
Composite Increment: 01
Weather Conditions: 82°F Clear
Cal

Date: 8/4/09
Time: 0946
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	<u>5%</u>
• <u>saltbrush</u>	<u>35%</u> brush
• grasses	<u>60%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

8/4/09
B-18

SAMPLE PREPARATION

Container: _____

Preservation: _____

- Shipping _____
- Packaging _____

Comments and Notes Dry, edges slightly disturbed
Saltbrush dry, small flowers not present,
leaves small, shriveled, and dry
brush/scrubs, woody tips



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-1318-22
Composite Name: B/S
Composite Increment: 02
Weather Conditions: 82°F Clear

Date: 8/4/08
Time: 0941
Chain of Custody Number: _____

Cal
light breeze NW → SE

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100% grass</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 90824-B18-03
Composite Name: B18
Composite Increment: 03
Weather Conditions: 83°F Clear
Calm

Date: 8/4/09
Time: 0936
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-B18-04
Composite Name: B18
Composite Increment: 04
Weather Conditions: 82°F Clear
Calm

Date: 8/4/09
Time: 0933
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100% ve</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 010804-B19-05
Composite Name: B18
Composite Increment: 05
Weather Conditions: 82F clear

Date: 8/4/09
Time: 7926
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	<u>20% b-cu</u>
• saltbrush	_____
• grasses	<u>80% ryc</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Brush Dry and tips of stems



PLANT TISSUE SAMPLING DATA SHEET
PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-B18-d6
Composite Name: B18
Composite Increment: 06
Weather Conditions: 82°F Clear
Calm, light breeze SW-NW

Date: 8/4/09
Time: 0922
Chain of Custody Number: _____

LOCATION DESCRIPTION

- ~~primarily grassy~~
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____ 35% brush
• saltbrush	_____
• grasses	_____ 65%
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Brush dry, lots of stem tips



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 020804-B18-07
Composite Name: B18
Composite Increment: 07
Weather Conditions: 82°F Clear
Cal m

Date: 5/4/07
Time: 0917
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

Handwritten notes: 10% under brush/brush, 90% M/C

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes brush/underbrush dry and stems



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-B18-08
Composite Name: B18
Composite Increment: 08
Weather Conditions: 81°F clear
cdm

Date: 8/4/09
Time: 0911
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrub

SAMPLE TYPE

Species:	Relative Quantity Collected
• <u>leaves</u>	<u>15% plant</u>
• saltbrush	_____
• <u>grasses</u>	<u>85%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes brush is primarily stems
small plants with green leaves (ragweed)



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 290804-B18-09
Composite Name: B18
Composite Increment: 0.9
Weather Conditions: 80°F Clear
Cal

Date: 8/4/09
Time: 0801
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100% dry</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 096804-618-10
Composite Name: B18
Composite Increment: 10
Weather Conditions: Clear 80°F
Calm

Date: 8/4/09
Time: 0857
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes SE flag missing, replaced

Chain of Custody Record

Temperature on Receipt _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client Chemical Waste Management, Inc.			Project Manager Paul Turek			Date 8/3/09		Chain of Custody Number 107209	
Address 35251 Old Skyline Road			Telephone Number (Area Code)/Fax Number (559) 386-6151			Lab Number		Page 1 of 1	
City Kettleman City	State CA	Zip Code 93239	Site Contact Steve Holshouser		Lab Contact Karen Dahl		Analysis (Attach list if more space is needed)		
Project Name and Location (State) KHF			Carrier/Waybill Number						

Contract/Purchase Order/Quote No.

0742-816-02

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives										Special Instructions/ Conditions of Receipt
			Air	Aqueous	Sed.	Soil	W	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	I	1668a			
090803-N-1-VD-SEH	8/3/09	903					X							X				
090803-N-2-VD-SEH		913					X							X				
090803-N-3-VD-SEH		921					X							X				
090803-N-4-VD-SEH		930					X							X				
090803-N-5-VD-SEH		936					X							X				
090803-N-6-VD-SEH		944					X							X				
090803-N-7-VD-SEH		950					X							X				
090803-N-8-VD-SEH		957					X							X				
090803-N-9-VD-SEH		1004					X							X				
090803-N-10-VD-SEH		1010					X							X				

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☒ Archive For **12** Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other **STD**

QC Requirements (Specify)

1. Relinquished By SE E Hla	Date 08/04/09	Time 1700	1. Received By	Date	Time
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

***12 WHO PCB Congeners**

Composite samples on this sheet for 1 analysis

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 070803-N-1-005
Composite Name: N
Composite Increment: 1
Weather Conditions: SUN 75

Date: 08 03 09
Time: 903
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

grasses

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flags OK

N



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-N-2-VD-DVS Date: 8-3-09
Composite Name: N Time: 9:13
Composite Increment: 2 Chain of Custody Number: _____
Weather Conditions: Sun 75

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• <u>saltbrush</u>	_____
• <u>grasses</u>	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

90 14e
10 salt

SAMPLE PREPARATION

Container:

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-N-3-VD DVS
Composite Name: N
Composite Increment: 3
Weather Conditions: SUN 80

Date: 8-3-09
Time: 9:21
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

100% Rye

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Plants OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090803-N-4-VD-VUS

Date: 8-3-09

Composite Name: N

Time: 930

Composite Increment: 4

Chain of Custody Number: _____

Weather Conditions: sun 80

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

Rye

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes

Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090803-N-5-VD DUS

Composite Name: N

Composite Increment: 5

Weather Conditions: SUN 80 SL. breeze

Date: 8-3-07

Time: 936

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses ✓ _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

Rye

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-N-6-VD DUS
Composite Name: N3
Composite Increment: 6
Weather Conditions: Sun 90

Date: 8-3-09
Time: 7:44
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

Rye

Trace dry flowers

SAMPLE PREPARATION

Container:

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes

Flows OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-N-7-VD-005
Composite Name: N
Composite Increment: 7
Weather Conditions: Sun 80's

Date: 8-03-09
Time: 9:50
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

dry eye
trace flowers

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flags OK - lettering gone



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-N 8-10-DVS
Composite Name: N
Composite Increment: 8
Weather Conditions: Sun 80

Date: 8-3-09
Time: 9:57
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

100% Rye

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803 - N 9 - V2 - QVS
Composite Name: N
Composite Increment: 9
Weather Conditions: Sun 80

Date: 8-3-09
Time: 10:04
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

100 142

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flags ok



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-N10-VD-005
Composite Name: N
Composite Increment: 10
Weather Conditions: 54°F 80's

Date: 8-3-09
Time: 10:10
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100 142

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flag ok

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client Chemical Waste Management Inc			Project Manager Paul Turek			Date 8/3/09		Chain of Custody Number 109534	
Address 35251 Old Skyline Rd			Telephone Number (Area Code)/Fax Number (559) 386-6151			Lab Number		Page 1 of 1	
City Kettleman City	State CA	Zip Code 93239	Site Contact Steve Holshouer		Lab Contact Karen Dahl		Analysis (Attach list if more space is needed)		
Project Name and Location (State) KHF			Carrier/Waybill Number			Special Instructions/ Conditions of Receipt			

Contract/Purchase Order/Quote No. 0742-816-02			Matrix					Containers & Preservatives																			
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil	VEG	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Ke	1600a										
090803-NE-1-VD-SEH			8/3/09	855					X							X	X										
090803-NE-2-VD-SEH				848					X								X										
090803-NE-3-VD-SEH				842					X								X										
090803-NE-4-VD-SEH				835					X								X										
090803-NE-5-VD-SEH				828					X								X										
090803-NE-6-VD-SEH				820					X								X										
090803-NE-7-VD-SEH				815					X								X										
090803-NE-8-VD-SEH				810					X								X										
090803-NE-9-VD-SEH				755					X								X										
090803-NE-10-VD-SEH			V	805					X								X										

Possible Hazard Identification				Sample Disposal				(A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input checked="" type="checkbox"/> Archive For 12 Months				

Turn Around Time Required				QC Requirements (Specify)			
<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 48 Hours	<input type="checkbox"/> 7 Days	<input type="checkbox"/> 14 Days	<input type="checkbox"/> 21 Days	<input checked="" type="checkbox"/> Other STD		

1. Relinquished By Steve Holshouer	Date 8/04/09	Time 1:00	1. Received By	Date	Time
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments * **12 WHO PCB Congeners Composite samples listed on this sheet for 1 analysis**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090903 NE 1
Composite Name: NE
Composite Increment: 1
Weather Conditions: Sun 75

Date: 080309
Time: 855
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

Lye grass
Trace tall grass

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flags

NE



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: _____
Composite Name: NE
Composite Increment: 2
Weather Conditions: Sun 75

Date: 8-7-09
Time: 848
Chain of Custody Number: _____

090803-NE 2-DUS

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

Rye
Trace Fibr

SAMPLE PREPARATION

Container: _____

Preservation: _____

- Shipping _____
- Packaging _____

Comments and Notes Flags ok



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 290803 NIB3-1D-0V5

Composite Name: NE

Composite Increment: 3

Weather Conditions: Sun 75

Date: 8-3-09

Time: 842

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

Rye grass

7 rare dried flowers

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes

Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090803-NIE-4-VD-DUS

Composite Name: UE

Composite Increment: 4

Weather Conditions: Sun 75

Date: 8-3-07

Time: 8:35

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100 R-1e

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes

Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090903 NIS-5-VD DUS Date: 8-07-09
Composite Name: NE Time: 8:18
Composite Increment: 5 Chain of Custody Number: _____
Weather Conditions: Sunny 75°

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

4
190 Rye
10 dried flower
4

SAMPLE PREPARATION

Container:

Preservation:

- Shipping
- Packaging

Comments and Notes Fire break windrow roused about
7/1/02 zone with soil collected sample
from west half of square



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 070803-NE-VD-DVS
Composite Name: NE
Composite Increment: 6
Weather Conditions: Sun 75

Date: 8-3-09
Time: 8:20
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- | | |
|---------------|----------|
| • leaves | _____ |
| • saltbrush | <u>✓</u> |
| • grasses | _____ |
| • seeds | _____ |
| • flowers | <u>✓</u> |
| • forbs | _____ |
| • fruits | _____ |
| • whole plant | _____ |

90 Eye
10 Flower-dried

SAMPLE PREPARATION

Container:

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes

Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090803-NE-7 VLS-AUS

Date: 8-3-09

Composite Name: NE

Time: 8:15

Composite Increment: 7

Chain of Custody Number: _____

Weather Conditions: Sun 75

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

95% NE

5% dried flowering plant

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes

Flies OK



PLANT TISSUE SAMPLING DATA SHEET
PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803 NE 8 UD DUS Date: 8-3-09
Composite Name: NE Time: 8:10
Composite Increment: 8 Chain of Custody Number: _____
Weather Conditions: Sun 70°S

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	✓ 100% RYE
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: _____

- Shipping _____
- Packaging _____

Comments and Notes Flags ok



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: NE
Composite Name: 090803-NE9-VD-DUS
Composite Increment: 9
Weather Conditions: _____

Date: 8-3-09
Time: 7:55
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

flowering plant gone/dried up

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• <u>grasses</u>	<u>80%</u> <i>salt brush</i>
• seeds	_____
• <u>flowers</u>	<u>20%</u> <i>dried Flowering</i>
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: NR
Composite Name: 090803 NR-10-VD-005
Composite Increment: _____
Weather Conditions: _____

Date: 8-3-07
Time: 8:05
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• <u>grasses</u>	<u>100% RYE</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: _____

- Shipping _____
- Packaging _____

Comments and Notes Flags OK

Chain of Custody Record

Temperature on Receipt _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client Chemical Waste Management, Inc.		Project Manager Paul Turek		Date 8/3/09	Chain of Custody Number 109535
Address 35251 Old Sk. line Rd.		Telephone Number (Area Code)/Fax Number (559) 386-6151		Lab Number	
City Kettleman City	State CA	Zip Code 93239	Site Contact Steve Holschauer	Lab Contact Karen Dahl	Page 1 of 1
Project Name and Location (State) KHF			Carrier/Waybill Number		

Contract/Purchase Order/Quote No. 0742-866-02		Matrix		Containers & Preservatives										Analysis (Attach list if more space is needed)										Special Instructions/Conditions of Receipt
Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Date	Time	Air	Aqueous	Sed.	Soil	VEG	Unpres.	H2SO4	HNO3	HCl	NaOH											
090803-NW-1-VD-SEH		8/3/09	1125					X								X								
090803-NW-2-VD-SEH			1131					X								X								
090803-NW-3-VD-SEH			1143					X								X								
090803-NW-4-VD-SEH			1152					X								X								
090803-NW-5-VD-SEH			1159					X								X								
090803-NW-6-VD-SEH			1208					X								X								
090803-NW-7-VD-SEH			1217					X								X								
090803-NW-8-VD-SEH			1222					X								X								
090803-NW-9-VD-SEH			1230					X								X								
090803-NW-10-VD-SEH			1237					X								X								

Possible Hazard Identification				Sample Disposal				Archive For 12 Months				(A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input checked="" type="checkbox"/> Archive For						

Turn Around Time Required				QC Requirements (Specify)			
<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 48 Hours	<input type="checkbox"/> 7 Days	<input type="checkbox"/> 14 Days	<input type="checkbox"/> 21 Days	<input checked="" type="checkbox"/> Other STD		

1. Relinquished By See H	Date 8/10/09	Time 1700	1. Received By	Date	Time
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: *** 12 WHO PCB Congeners, Composite listed samples on this chain for 1 analysis**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - stays with the Sample; PINK - Field Copy



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-NW-1-VI2-DUS Date: 8-3-09
Composite Name: NW Time: 1125
Composite Increment: 1 Chain of Custody Number: _____
Weather Conditions: sun 80's

LOCATION DESCRIPTION

- primarily grassy
- scaree grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• <u>grasses</u>	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

Rye
Trace dry Flava

SAMPLE PREPARATION

Container:

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Fing 5 OK

NW



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090803-NW-2-UD-DUS

Composite Name: NW2

Composite Increment: 2

Weather Conditions: Sun 80's

Date: 8-3-09

Time: 11:31

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

so Lycopodium

so Brush - still green

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes Flogs OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 070803-NW-3-VD DVS

Composite Name: NW

Composite Increment: 3

Weather Conditions: sun 80's

Date: 8-3-07

Time: 11:43

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

50 grass
50 dry flowers

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes

Play OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 070803-NW-4-VB-DUS
Composite Name: NW
Composite Increment: 4
Weather Conditions: Sun 80s

Date: 8-3-09
Time: 11:52
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

eye/dry flowers

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes mis-labeled "NW 9"



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-NW-5-VD-DVS
Composite Name: NW
Composite Increment: 5
Weather Conditions: Jan 90°

Date: 8-3-09
Time: 11:59
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

95 Rye

5 Trace dry Flower

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-NW-6-UD-DUS
Composite Name: NW
Composite Increment: 6
Weather Conditions: sun 90

Date: 8-3-09
Time: 1208
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- ~~scarce grass~~
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ 100 Rye
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: _____

- Shipping _____
- Packaging _____

Comments and Notes Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-NW-7-VD DUS
Composite Name: NW
Composite Increment: 7
Weather Conditions: Sun 90

Date: 8-3-07
Time: 12:17
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

100 grass

SAMPLE PREPARATION

Container: _____

Preservation: _____

- Shipping _____
- Packaging _____

Comments and Notes Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090903-NW-8-VD-PVS

Composite Name: NW

Composite Increment: 8

Weather Conditions: 7un 10

Date: 8-3-09

Time: 12:22

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

100% Rye

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes

Flags OK



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF

Sample Identification: 090903-NW-9-UP-DUS

Composite Name: NW

Composite Increment: 9

Weather Conditions: sun 90

Date: 8-3-09

Time: 12:30

Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:

Relative Quantity Collected

- leaves
- saltbrush
- grasses
- seeds
- flowers
- forbs
- fruits
- whole plant

80% Rye

20% Salt Brush

SAMPLE PREPARATION

Container:

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes Flags OK - mixed up with NW-4



PLANT TISSUE SAMPLING DATA SHEET
PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 070803-NW-D-UD-DVS Date: 8-3-09
Composite Name: NW Time: 1237
Composite Increment: 10 Chain of Custody Number: _____
Weather Conditions: sun 90°

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species: Relative Quantity Collected

- leaves _____
- saltbrush _____
- grasses _____
- seeds _____
- flowers _____
- forbs _____
- fruits _____
- whole plant _____

100% Rye

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Flags OK

Chain of Custody Record

Temperature on Receipt _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client

Chemical Waste Management, Inc.

Address

35251 Old Skyline Rd

City

Kettleman City

State

CA

Zip Code

93239

Project Manager

Paul Turck

Telephone Number (Area Code)/Fax Number

(559) 386-6151

Date

8/4/09

Chain of Custody Number

109549

Lab Number

Page 1 of 1

Site Contact

Steve Holshouser

Lab Contact

Karen Dahl

Analysis (Attach list if more space is needed)

Project Name and Location (State)

KHF

Carrier/Waybill Number

Contract/Purchase Order/Quote No.

0742-816-02

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

Date

Time

Matrix

Containers & Preservatives

Air

Aqueous

Sed.

Soil

Leads

Unpres.

H2SO4

HNO3

HCl

NaOH

ZnAc/NaOH

Leads

16680

090804-5-1-VD-SEH

8/4/09

842

X

X

090804-5-2-VD-SEH

825

X

X

090804-5-3-VD-SEH

814

X

X

090804-5-4-VD-SEH

807

X

X

090804-5-5-VD-SEH

801

X

X

090804-5-6-VD-SEH

0752

X

X

090804-5-7-VD-SEH

740

X

X

090804-5-8-VD-SEH

730

X

X

090804-5-9-VD-SEH

722

X

X

090804-5-10-VD-SEH

705

X

X

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B

☒ Unknown

Sample Disposal

☐ Return To Client

☐ Disposal By Lab

☒ Archive For 12 Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days

☒ Other STD

QC Requirements (Specify)

1. Relinquished By

SEE HAN

Date

08/04/09

Time

1700

1. Received By

Date

Time

2. Relinquished By

Date

Time

2. Received By

Date

Time

3. Relinquished By

Date

Time

3. Received By

Date

Time

Comments

* 12 WHO PCB Congeners, Composite samples on this sheet for 1 analysis

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 290804-S-01
Composite Name: 5
Composite Increment: 01
Weather Conditions: 80°F Clear
SW → E

Date: 8/4/09
Time: 0842
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% 5-</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

8/4/09
5

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes

minimal brush
SW flag missing, replaced



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-S-02
Composite Name: S
Composite Increment: 02
Weather Conditions: 82°F Clear
Slight breeze SE → NW

Date: 8/4/09
Time: 0825
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100 %</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: _____

- Shipping _____
- Packaging _____

Comments and Notes SE flag down, replace
Extended sampling area 1m in all directions
in order to collect sufficient mass



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-S-03
Composite Name: 5
Composite Increment: 03
Weather Conditions: 80°F Clear
slight breeze
SE → NW

Date: 8/4/08
Time: 0800 0814
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% to 140</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804 - S-04
Composite Name: S
Composite Increment: 04
Weather Conditions: 80°F Clear
Very light breeze SW-NE

Date: 8/4/09
Time: 0809
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>x 100% NYC</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes some waxy tips of leg brush
included, minimal



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 010804-5-05
Composite Name: 5
Composite Increment: 05
Weather Conditions: 80°F Clear

Date: 8/4/09
Time: 0801
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 290804-S-06
Composite Name: S
Composite Increment: 06
Weather Conditions: 80°F clear
Calm

Date: 8/4/08
Time: 2752
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% p 17C</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-S-07
Composite Name: S
Composite Increment: 07
Weather Conditions: 80°F Clear

Date: 8/4/07
Time: 0740
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>x</u> <u>100% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes 2' rattlesnake at sampling spot



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-S-08
Composite Name: S
Composite Increment: 08
Weather Conditions: 80°F Clear
Cal m

Date: 8/4/09
Time: 0730
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>x</u> <u>150% to 1% seeds</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-5-09
Composite Name: 5
Composite Increment: 09
Weather Conditions: 81°F Clear
Calm

Date: 8/4/09
Time: 0722
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>x 100% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes Initial marking flag missing. Sampling
area undisturbed. Retagged firebreak, ~100 ft
before crest of hill.



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-S-10
Composite Name: 5
Composite Increment: 10
Weather Conditions: 80°F Clear
Calm

Date: 8/4/08
Time: 0600 0705
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% grass</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Extended Sampling area ~ 0.5 meters
in all directions is used to collect sufficient
vegetation. Flagged and Documented
No leaves to collect due to dry conditions

From Please print and press hard
 Date 08/04/09 Sender's FedEx Account Number 1132-9342-0
 Sender's Name STEVEN HOWITORSZ Phone (559) 386-6117
 Company CHEMICAL WASTE MGMT., INC.
 Address 35251 OLD SKYLINE
 City KETTLEMAN CITY State CA ZIP 93239

Your Internal Billing Reference

First 24 characters will appear on invoice

To Recipient's Name KAREN DAHL Phone ()
 Company TEST AMERICA
 Recipient's Address
 We cannot deliver to P.O. boxes or P.O. ZIP codes.
 Address 880 RIVERSIDE PARKWAY
 City WEST SACRAMENTO State CA ZIP 95605

4a Express Package Service

☒ FedEx Priority Overnight Next business morning. * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ FedEx Standard Overnight Next business afternoon. * Saturday Delivery NOT available.
☐ FedEx 2Day Second business day. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ FedEx Express Saver Third business day. * Saturday Delivery NOT available.
 FedEx Envelope rate not available. Minimum charge: One-pound rate.

Packages up to 150 lbs.

☐ FedEx First Overnight Earliest next business morning delivery to select locations. * Saturday Delivery NOT available.

4b Express Freight Service

☐ FedEx 1Day Freight Next business day. * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ FedEx 2Day Freight Second business day. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ FedEx 3Day Freight Third business day. * Saturday Delivery NOT available.

Packages over 150 lbs.

5 Packaging

☐ FedEx Envelope* ☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. ☐ FedEx Box ☐ FedEx Tube ☒ Other
 *Declared value limit \$500

6 Special Handling

☐ SATURDAY Delivery NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
☐ HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.
☐ HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
 Does this shipment contain dangerous goods?
☒ No One box must be checked.
☐ Yes As per attached Shipper's Declaration.
☐ Yes Shipper's Declaration not required.
☐ Dry Ice Dry ice, 9, UN 1845 x kg
☐ Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.
☒ Sender Acct. No. as billed ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check
 FedEx Acct. No. Credit Card No. Exp. Date

Total Packages 8 Total Weight 10.1 Total Declared Value \$.00

*Our liability is limited to \$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

☐ No Signature Required Package may be left without obtaining a signature for delivery.
☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies.
☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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 Transaction: 72047337182

PRIORITY OVERNIGHT 288.10 lb (S) 269.23
 368645034086 269.23
 795529631199
 795529631203
 795529631214
 795529631225
 795529631236
 795529631247
 795529631258

Shipment subtotal: 269.23
 Total Due: 269.23
 FedEx Account: 269.23
 *****3420

M = Weight entered manually
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SE

SUE SAMPLING DATA SHEET
PCB Congener Study
San Juan Hills Facility (KHF)
San Diego County, California



Project Name: CWMI - KHF
Sample Identification: 090804-SE-01
Composite Name: SE
Composite Increment: 01
Weather Conditions: 84°F Clear
light breeze NE → SSW

Date: 8/4/08
Time: 1237
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____ <u>20% L</u> <u>40%</u>
• saltbrush	_____ <u>80%</u> <u>60%</u>
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: _____

- Shipping _____
- Packaging _____

Comments and Notes leaves and plants gone, brush very
dry, stems and woody tips



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-SE-02
Composite Name: SE
Composite Increment: 02
Weather Conditions: 84°F Clear
Calm, light breeze NE → SW

Date: 8/4/09
Time: 1232
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____ 10% brush
• saltbrush	_____
• grasses	_____ 90%
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes brush very dry, stems



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-SE-03
Composite Name: SE
Composite Increment: 03
Weather Conditions: 84°F Clear
Breeze E → WSW

Date: 8/4/9
Time: 1234
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____ <u>20% brush with few leaves</u>
• saltbrush	_____
• grasses	_____ <u>80%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Inner leaves, dried, with underbrush
very light in mass



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 020804-SE-04
Composite Name: SE
Composite Increment: 04
Weather Conditions: 84°F Clear
E→W

Date: 8/4/09
Time: 12:17
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100 % - 100 %</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes brush very dry and scarce



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-SE-05
Composite Name: SE
Composite Increment: 05
Weather Conditions: 84°F Clear

Date: 8/4/09
Time: 1208
Chain of Custody Number: _____

Calmer
light NE → SW

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-SE-06
Composite Name: SE
Composite Increment: 06
Weather Conditions: 83°F Clear

Date: 8/4/09
Time: 1203
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____ <u>10% brush</u>
• grasses	_____ <u>90% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes brush lay on sparse with stems
and weedy tips



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 290804-SE-07
Composite Name: SE
Composite Increment: 07
Weather Conditions: 83°F clear
light breeze NE → SW

Date: 8/4/08
Time: 1158
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____ <u>20% brush</u>
• grasses	_____ <u>80%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes brush dry and some stems



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-SE-08
Composite Name: SE
Composite Increment: 08
Weather Conditions: 83°F Clear
light breeze N-SSW

Date: 8/4/09
Time: 1150
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100% 140</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes Risinate sample collected (2/1150)



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090804-SE-09
Composite Name: SE
Composite Increment: 09
Weather Conditions: 82°F clear
light breeze S → N

Date: 8/4/09
Time: 1139
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrub

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____ <u>52 to 60</u>
• saltbrush	_____
• grasses	_____ <u>95%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Covered by Tumbleweeds
Tumbleweeds moved, NE and SE flags
replaced
Brush scarce



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 990824-SE-10
Composite Name: SE
Composite Increment: 10
Weather Conditions: 82°F Clear
light breeze SE-NW

Date: 8/4/09
Time: 1128
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>100% - yes</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____

Chain of Custody Record

Temperature on Receipt _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client

Chemical Waste Management, Inc.

Address

35251 Old Skyline Rd

City

Kettleman City

State

CA

Zip Code

93239

Project Name and Location (State)

KHF

Project Manager

Paul Turek

Telephone Number (Area Code)/Fax Number

(559) 386-6151

Date

8/3/09

Chain of Custody Number

109537

Lab Number

Page 1 of 1

Site Contact

Steve Holshauer

Lab Contact

Karen Dahl

Carrier/Waybill Number

Analysis (Attach list if more space is needed)

Special Instructions/
Conditions of Receipt

Contract/Purchase Order/Quote No.

0742-816-02

Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

Date

Time

Matrix

Containers & Preservatives

Air

Aqueous

Sed.

Soil

Veget.

Unpres.

H2SO4

HNO3

HCl

NaOH

ZnAc/NaOH

100

1660g

090803-SW-1-VD-SEH

8/3/09

1451

X

X

X

090803-SW-2-VD-SEH

1452

X

X

X

090803-SW-3-VD-SEH

1505

X

X

X

090803-SW-4-VD-SEH

1513

X

X

X

090803-SW-5-VD-SEH

1520

X

X

X

090803-SW-6-VD-SEH

1531

X

X

X

090803-SW-7-VD-SEH

1540

X

X

X

090803-SW-8-VD-SEH

1550

X

X

X

090803-SW-9-VD-SEH

1600

X

X

X

090803-SW-10-VD-SEH

1610

X

X

X

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return To Client

☐ Disposal By Lab

☒ Archive For

12

Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other

STD

QC Requirements (Specify)

1. Relinquished By

SEE H

Date

8/3/09

Time

1700

1. Received By

Date

Time

2. Relinquished By

Date

Time

2. Received By

Date

Time

3. Relinquished By

Date

Time

3. Received By

Date

Time

Comments

* 12 WHO PCB Congeners Composite samples listed on sheet for 1 analysis

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: _____
Composite Name: SW
Composite Increment: 01
Weather Conditions: 91°F Clear

Date: 8/3/09
Time: 14:57
Chain of Custody Number: _____

Light E-WNW
breeze

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% to 5%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____



SAMPLE PREPARATION

Container: clear glass

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes Some underbrush but most dried
up and blown away



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-SW-2
Composite Name: SW
Composite Increment: 02
Weather Conditions: 91°F Clear
Windy

Date: 8/3/09
Time: 19:57
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

100% 1/2

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803 - SW-5
Composite Name: SW
Composite Increment: 03
Weather Conditions: 91°F c/1005
light breeze E→W

Date: 8/3/09
Time: 15:05
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	
• <u>saltbrush</u>	<u>45 saltbrush</u> 40% saltbrush
• <u>grasses</u>	<u>55 rye</u> 60% rye
• seeds	
• flowers	
• forbs	
• fruits	
• whole plant	

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Saltbrush had very little leaves. Mostly
dry and some tips of branches



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-SW-4
Composite Name: SW
Composite Increment: 04
Weather Conditions: 91°F Clear
light breeze SW→W

Date: 8/5/08
Time: 15:13
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	<u>35%</u>
• grasses	<u>65%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Saltbrush sparse, dry with mainly
waxy tips



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-SW-5
Composite Name: SW
Composite Increment: 05
Weather Conditions: 91°F Clear
light breeze E-W

Date: 8/3/09
Time: 15:20
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	<u>20%</u> underbrush
• grasses	<u>80%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: _____

Preservation: _____

• Shipping _____

• Packaging _____

Comments and Notes Vegetation scarce. Sampling area extended
Some woody tips
Area extended 0.25 m in all directions to collect
enough vegetation.



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090003-SW-6
Composite Name: SW
Composite Increment: 6
Weather Conditions: 91°F Clear
light breeze E-W

Date: 8/3/09
Time: 15:31
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	<u>40</u> %
• grasses	<u>60</u> %
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Salt brush dry, waxy tips with sparse
leaves



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-SW-7
Composite Name: SW
Composite Increment: 07
Weather Conditions: 11°F clear
light breeze E→W
calm

Date: 8/3/09
Time: 15:40
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	<u>20%</u>
• grasses	<u>80%</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes saltbrush dry, woody tips and dry
leaves



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 90803-SW-8
Composite Name: SW
Composite Increment: 20
Weather Conditions: 91°F Clear
Calm, light breeze SE → WNW

Date: 8/3/09
Time: 15:50
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090703-SW-9
Composite Name: SW
Composite Increment: 29
Weather Conditions: 91°F, Clear

Date: 8/3/29
Time: 15:00
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET
PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-SW-10#5H
Composite Name: SW
Composite Increment: 10
Weather Conditions: 93°F Clear
light breeze E → W

Date: 8/3/09
Time: 16:10
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	<u>90%</u> 10 to brush
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes Brush very scarce

Chain of Custody Record

Temperature on Receipt _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client

Chemical Waste Management, Inc.

Address

35251 Old Skyline Rd.

City

Kettleman City

State

CA

Zip Code

93239

Project Name and Location (State)

KHF

Project Manager

Paul Turck

Date

8/3/09

Chain of Custody Number

109536

Telephone Number (Area Code)/Fax Number

(559) 386-6151

Lab Number

Page 1 of 1

Site Contact

Steve Holshouser

Lab Contact

Karen Dahl

Analysis (Attach list if more space is needed)

Carrier/Waybill Number

Contract/Purchase Order/Quote No.

0742-816-02

Matrix

Containers & Preservatives

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

Date

Time

Air

Aqueous

Sed.

Soil

Lea

Unpres.

H2SO4

HNO3

HCl

NaOH

ZnAc/NaOH

1cc

1668a

090803-W-1-VD-SEH

8/3/09

1351

X

X

090803-W-2-VD-SEH

1356

X

X

090803-W-3-VD-SEH

1401

X

X

090803-W-4-VD-SEH

1410

X

X

090803-W-5-VD-SEH

1415

X

X

090803-W-6-VD-SEH

1420

X

X

090803-W-7-VD-SEH

1426

X

X

090803-W-8-VD-SEH

1431

X

X

090803-W-9-VD-SEH

1438

X

X

090803-W-10-VD-SEH

1444

X

X

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B

☒ Unknown

Sample Disposal

☐ Return To Client

☐ Disposal By Lab

☒ Archive For

12

Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days

☒ Other STD

QC Requirements (Specify)

1. Relinquished By

SEE John

Date

08/04/09

Time

1700

1. Received By

Date

Time

2. Relinquished By

Date

Time

2. Received By

Date

Time

3. Relinquished By

Date

Time

3. Received By

Date

Time

Comments

* 12 WHO PCB Congeners Composite Samples on this sheet for 1 analysis

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 7003-W-01-
Composite Name: W
Composite Increment: 01
Weather Conditions: 89°F
Wind SE → WNW

Date: 8/3/09
Time: 13:57
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ 100% 1ye
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____





PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 250803-W-2
Composite Name: W
Composite Increment: 02
Weather Conditions: 8°F Clear
Wind → WNW

Date: 8/3/09
Time: 13:56
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____ <u>100% 1%</u>
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803 - W-3
Composite Name: W
Composite Increment: 03
Weather Conditions: 87° Clear
Winds SE → WNW

Date: 8/3/09
Time: 14:01
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% rye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 040803-L-04
Composite Name: W
Composite Increment: 04
Weather Conditions: 89°F Clear
Wind SE → WNW

Date: 8/3/09
Time: 14:10
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____ 100% size
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes SE corner flag missing



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 080803-W-05
Composite Name: W
Composite Increment: 05
Weather Conditions: 89°F Clear
W SE → WNW

Date: 8/3/08
Time: 14:15
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% 17c</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090003 - W - 6
Composite Name: W
Composite Increment: 06
Weather Conditions: 89°F Clear
W-d SE → WNW

Date: 8/5/09
Time: 14:20
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% ryc</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 070803-W-7
Composite Name: P
Composite Increment: 07
Weather Conditions: 91°F Clear

Date: 8/3/09
Time: 14:26
Chain of Custody Number: _____

W-L E-SW
(calm)

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____ <u>100% +/ye</u>
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 280803-W-8
Composite Name: W
Composite Increment: 08
Weather Conditions: 91°F Clear
W
Calm

Date: 8/13/09
Time: 14:31
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% 1ye</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

• Shipping _____

• Packaging _____

Comments and Notes _____



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-W-9
Composite Name: W
Composite Increment: 09
Weather Conditions: 91°F Clear

Date: 8/3/09
Time: 14:38
Chain of Custody Number: _____

Wind ESW
Calm/light breeze

LOCATION DESCRIPTION

- primarily grassy
- scarce grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____ <u>100% r42</u>
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

SAMPLE PREPARATION

Container: clear glass

Preservation:

- Shipping _____
- Packaging _____

Comments and Notes SW flag knocked over



PLANT TISSUE SAMPLING DATA SHEET

PCB Congener Study
Kettleman Hills Facility (KHF)
Kings County, California



Project Name: CWMI - KHF
Sample Identification: 090803-W-10
Composite Name: W
Composite Increment: 10
Weather Conditions: 91°F clear
Wind E-WNW

Date: 8/3/99
Time: 14:44
Chain of Custody Number: _____

LOCATION DESCRIPTION

- primarily grassy
- scaree grass
- brush/scrubs

SAMPLE TYPE

Species:	Relative Quantity Collected
• leaves	_____
• saltbrush	_____
• grasses	_____
• seeds	_____
• flowers	_____
• forbs	_____
• fruits	_____
• whole plant	_____

100% type

SAMPLE PREPARATION

Container: clear glass

Preservation:

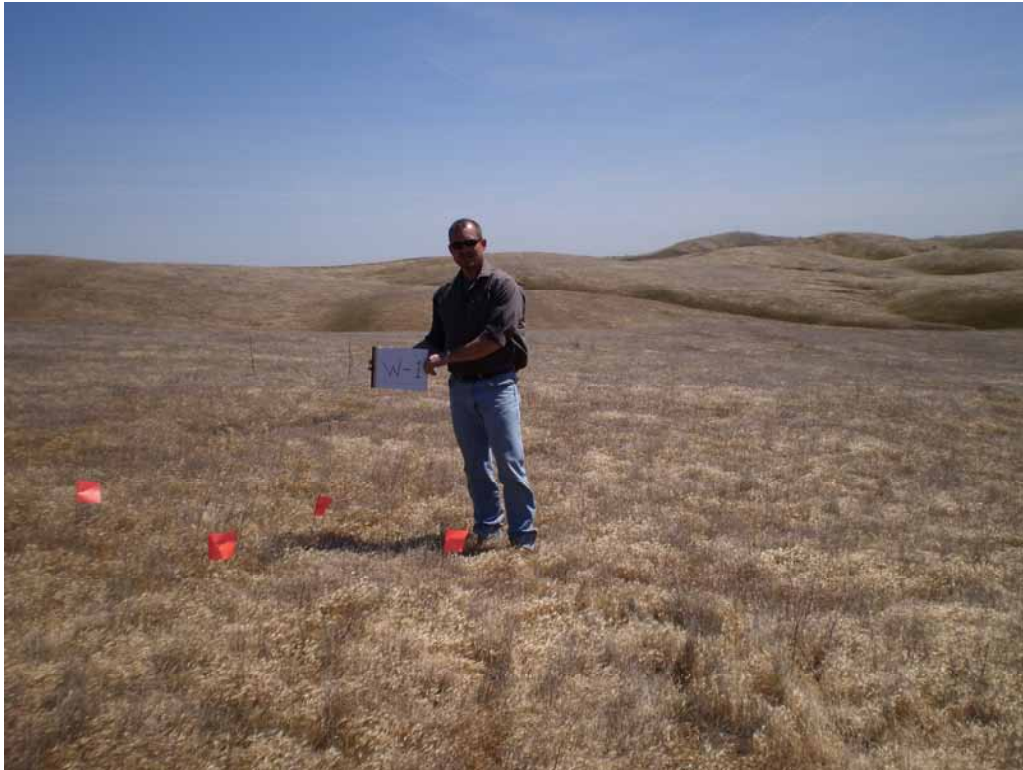
- Shipping _____
- Packaging _____

Comments and Notes _____

W Sample Area
Sampling Photo Log
Dioxin-Like PCB Congener Study
Kettleman Hills Facility
Kings County, CA

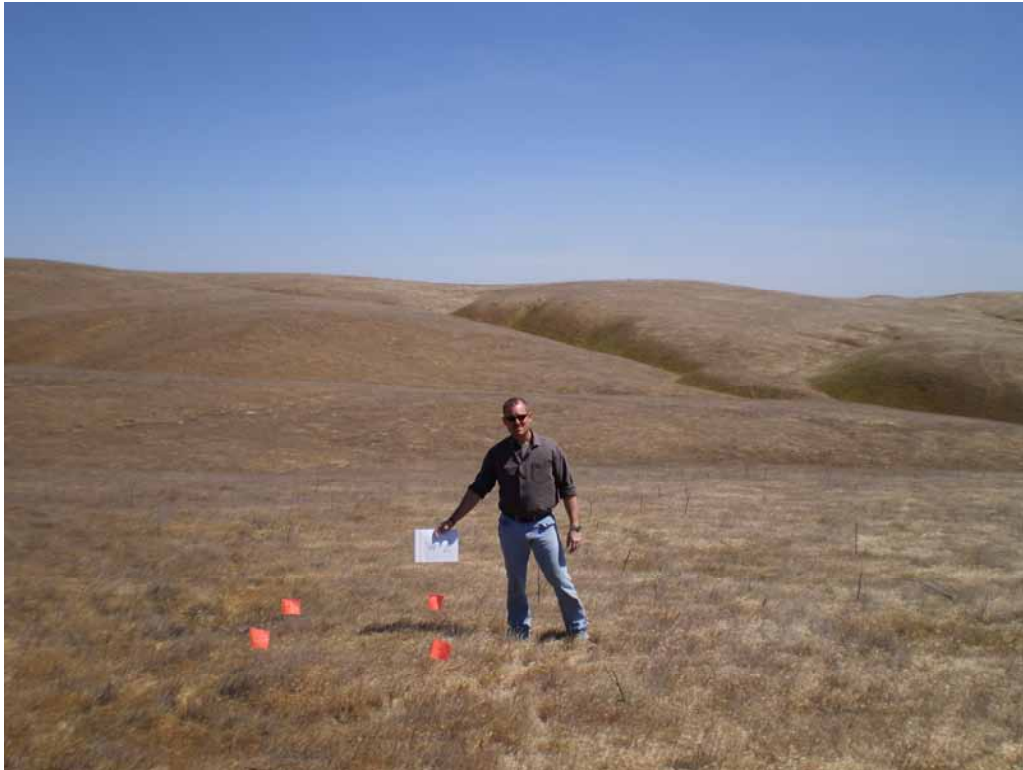
W-01 Sampling Location
Sampled 4/1/09

35°58'11.62"N
120°01'48.78"W



W-02 Sampling Location
Sampled 4/1/09

35°58'06.48"N
120°01'48.72"W



W-03 Sampling Location
Sampled 4/1/09

35°58'01.34"N
120°01'48.62"W



W-04 Sampling Location
Sampled 4/1/09

35°57'55.86"N
120°01'48.67"W



W-05 Sampling Location
Sampled 4/1/09

35°57'51.04"N
120°01'48.54"W



W-06 Sampling Location
Sampled 4/1/09

35°57'50.92"N
120°01'43.97"W



W-07 Sampling Location
Sampled 4/1/09

35°57'50.98"N
120°01'37.52"W



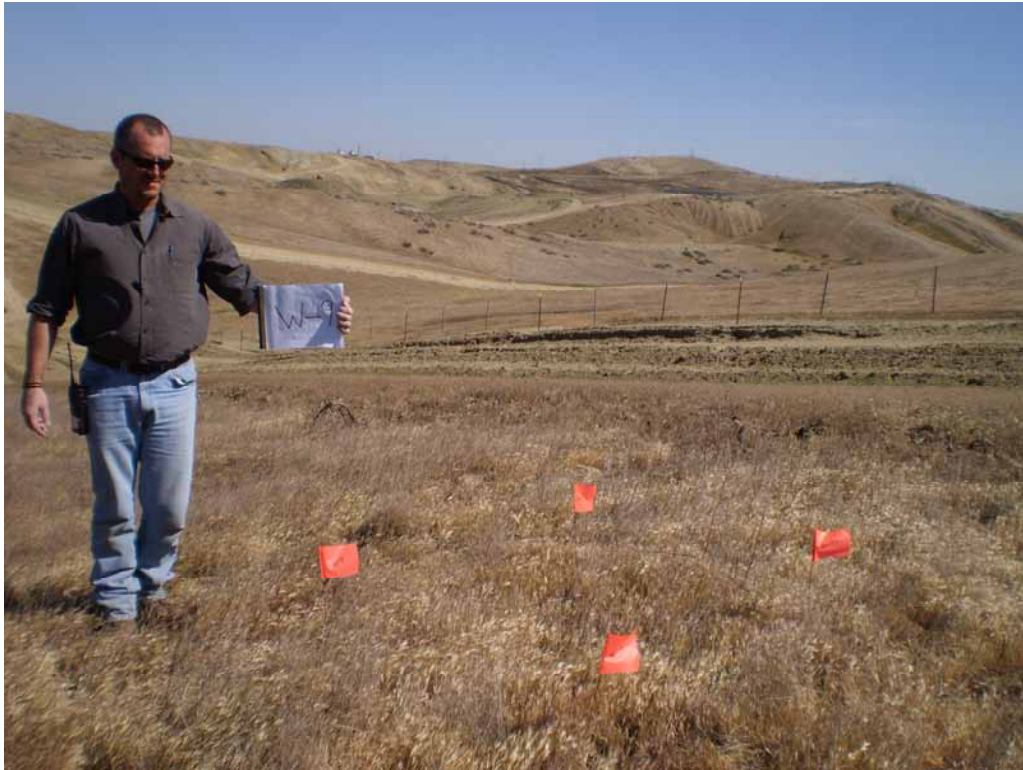
W-08 Sampling Location
Sampled 4/1/09

35°57'51.01"N
120°01'30.97"W



W-09 Sampling Location
Sampled 4/1/09

35°57'50.86"N
120°01'24.85"W



W-10 Sampling Location
Sampled 4/1/09

35°57'50.96"N
120°01'18.45"W

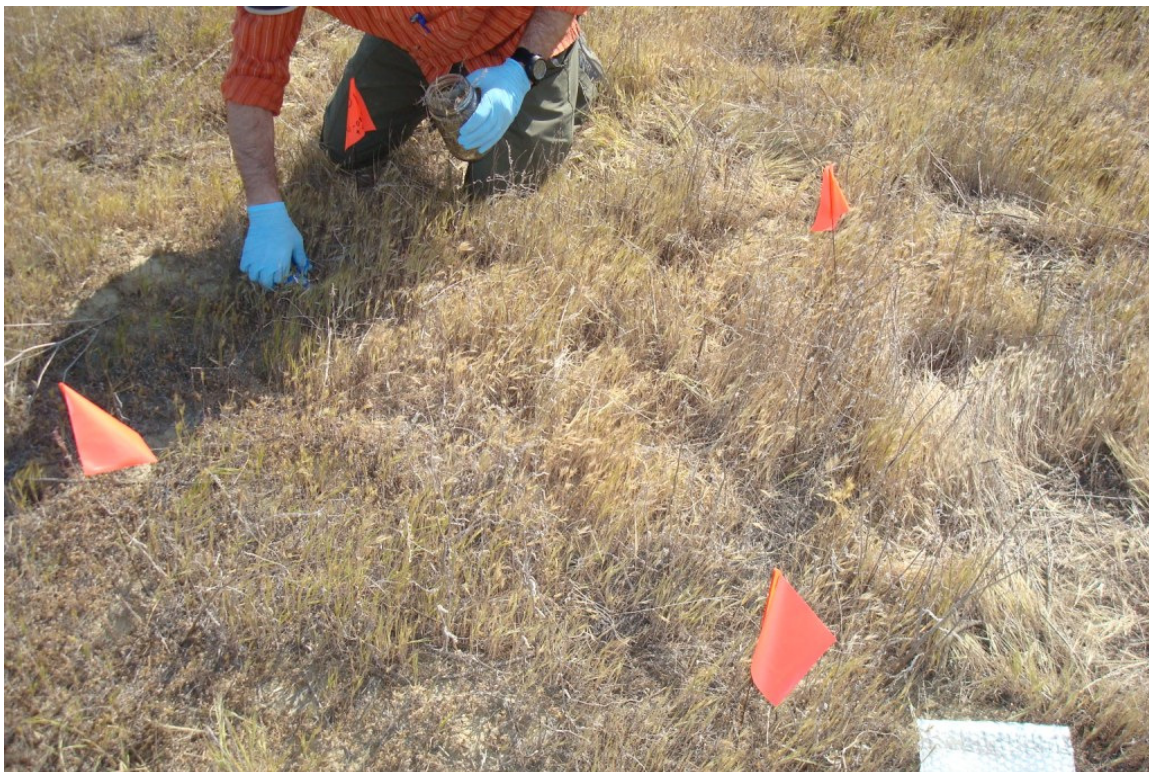


SW Sample Area
Sampling Photo Log
Dioxin-Like PCB Congener Study
Kettleman Hills Facility
Kings County, CA

SW-01 Sampling Location
Sampled 3/31/09

35°57'44.74"N
120°01'17.07"W





SW-02 Sampling Location
Sampled 3/31/09

35°57'38.68"N
120°01'17.07"W





SW-03 Sampling Location
Sampled 3/31/09

35°57'34.32"N
120°01'17.38"W



SW-04 Sampling Location
Sampled 3/31/09

35°57'29.31"N
120°01'17.26"W



SW-05 Sampling Location
Sampled 3/31/09

35°57'24.05"N
120°01'17.37"W



SW-06 Sampling Location
Sampled 3/31/09

35°57'18.89"N
120°01'17.69"W





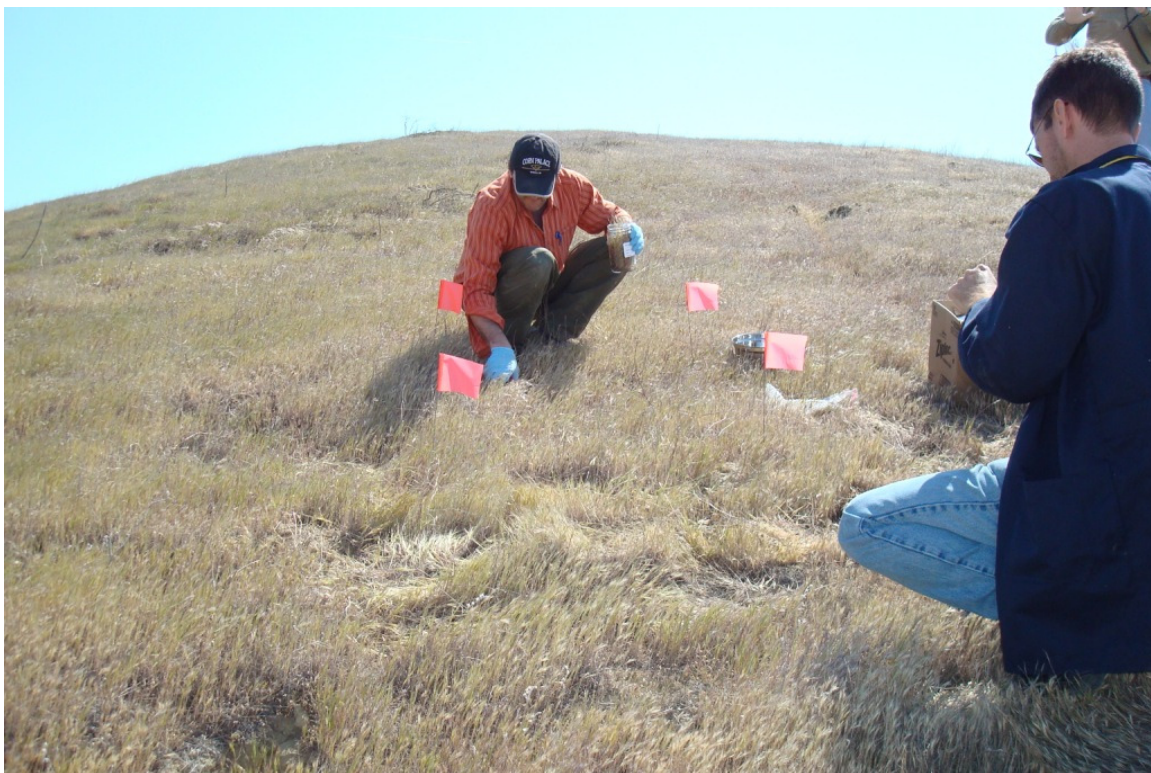
SW-07 Sampling Location
Sampled 3/31/09

35°57'13.79"N
120°01'17.85"W



SW-08 Sampling Location
Sampled 3/31/09

35°57'08.64"N
120°01'17.69"W





SW-09 Sampling Location
Sampled 3/31/09

35°57'03.54"N
120°01'17.63"W



SW-10 Sampling Location
Sampled 3/31/09

35°56'58.28"N
120°01'18.52"W





SE Sample Area
Sampling Photo Log
Dioxin-Like PCB Congener Study
Kettleman Hills Facility
Kings County, CA

SE-10 Sampling Location
Sampled 4/1/09

35°57'00.94"N
120°00'14.82"W



SE-09 Sampling Location
Sampled 4/1/09

35°57'06.11"N
120°00'14.74"W



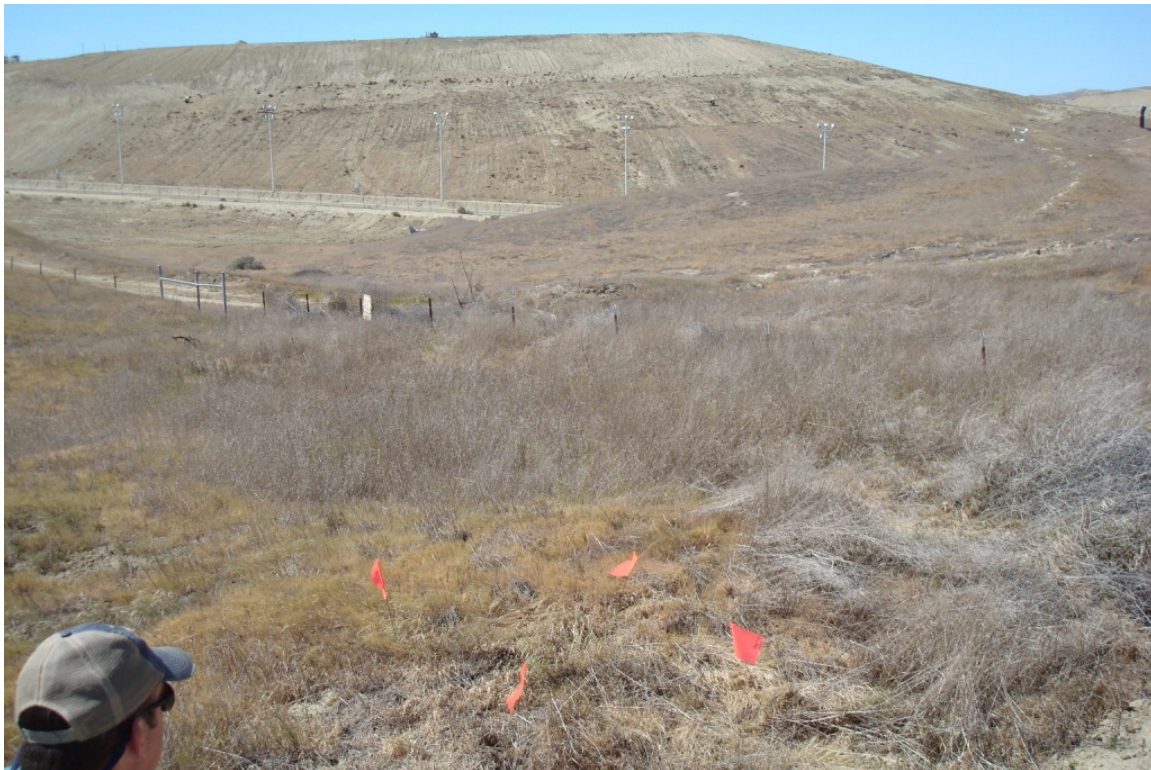
SE-08 Sampling Location
Sampled 4/1/09

35°57'11.29"N
120°00'14.68"W



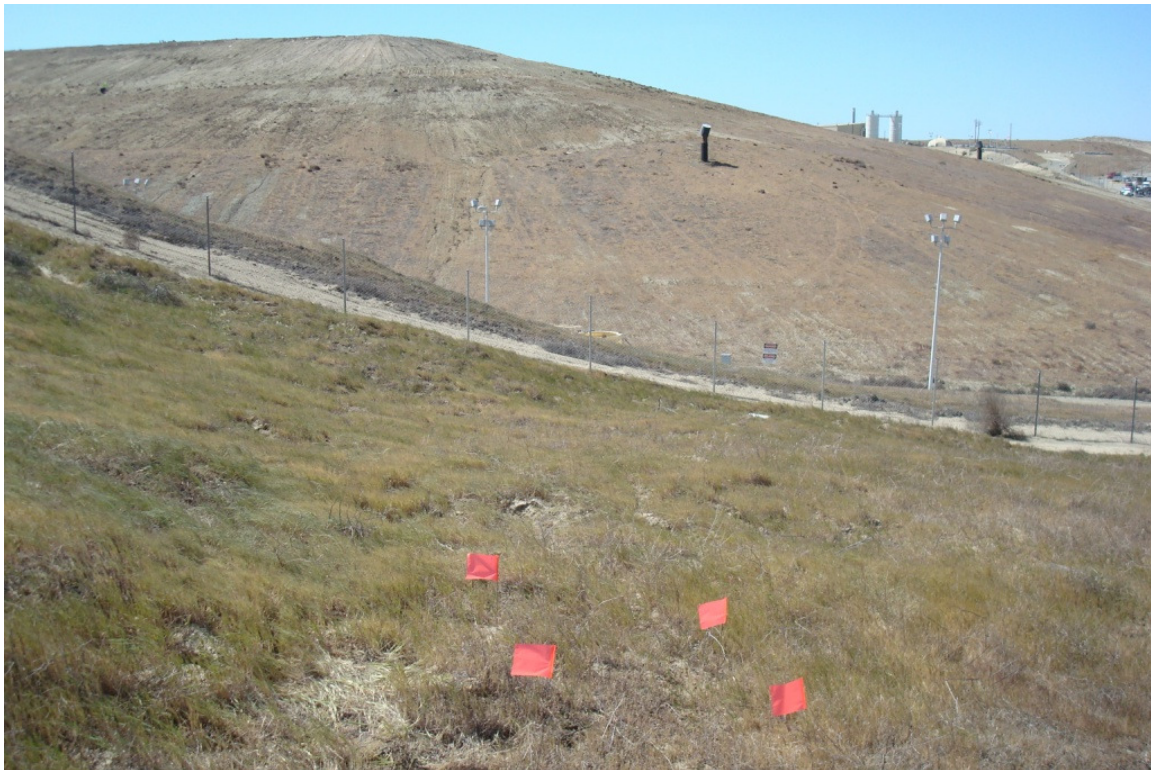
SE-07 Sampling Location
Sampled 4/1/09

35°57'16.49"N
120°00'15.19"W



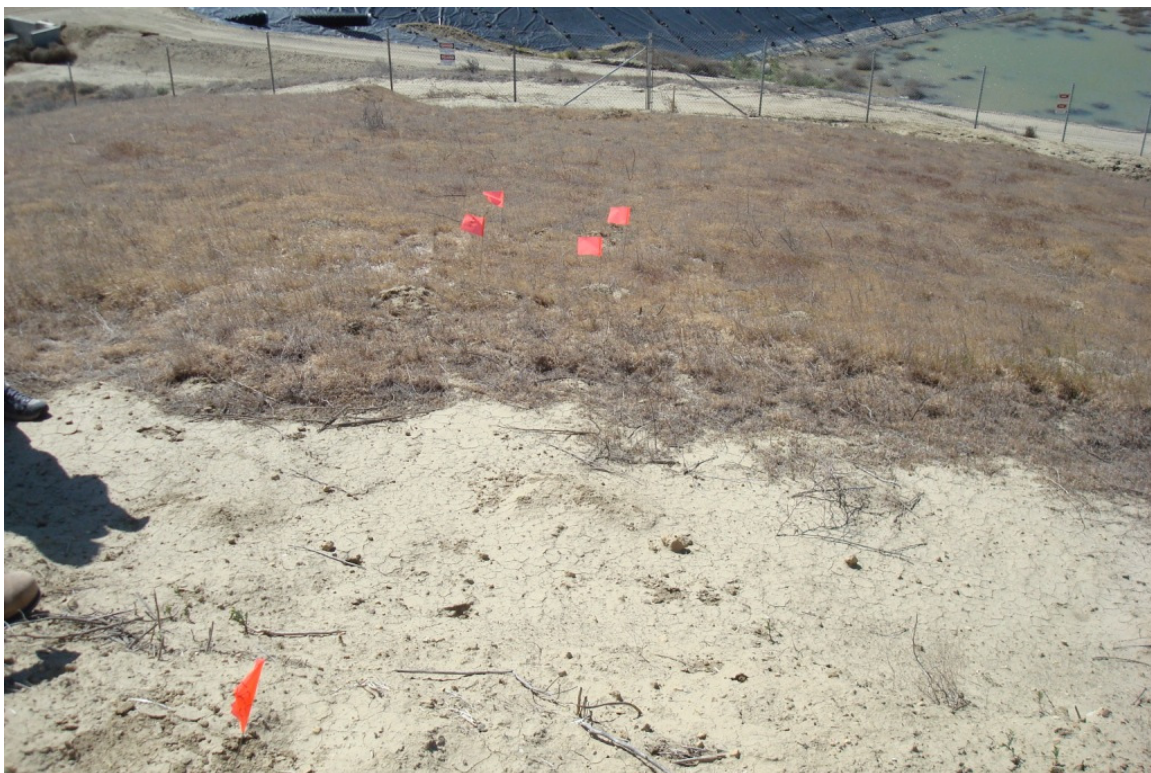
SE-06 Sampling Location
Sampled 4/1/09

35°57'21.66"N
120°00'15.20"W



SE-05 Sampling Location
Sampled 4/1/09

35°57'26.78"N
120°00'14.82"W



Sampling Photo Log - SE
11/4/2009

Dioxin-like PCB Congeners Study
Chemical Waste Management, Inc. -Kettleman Hills Facility
Kings County, CA

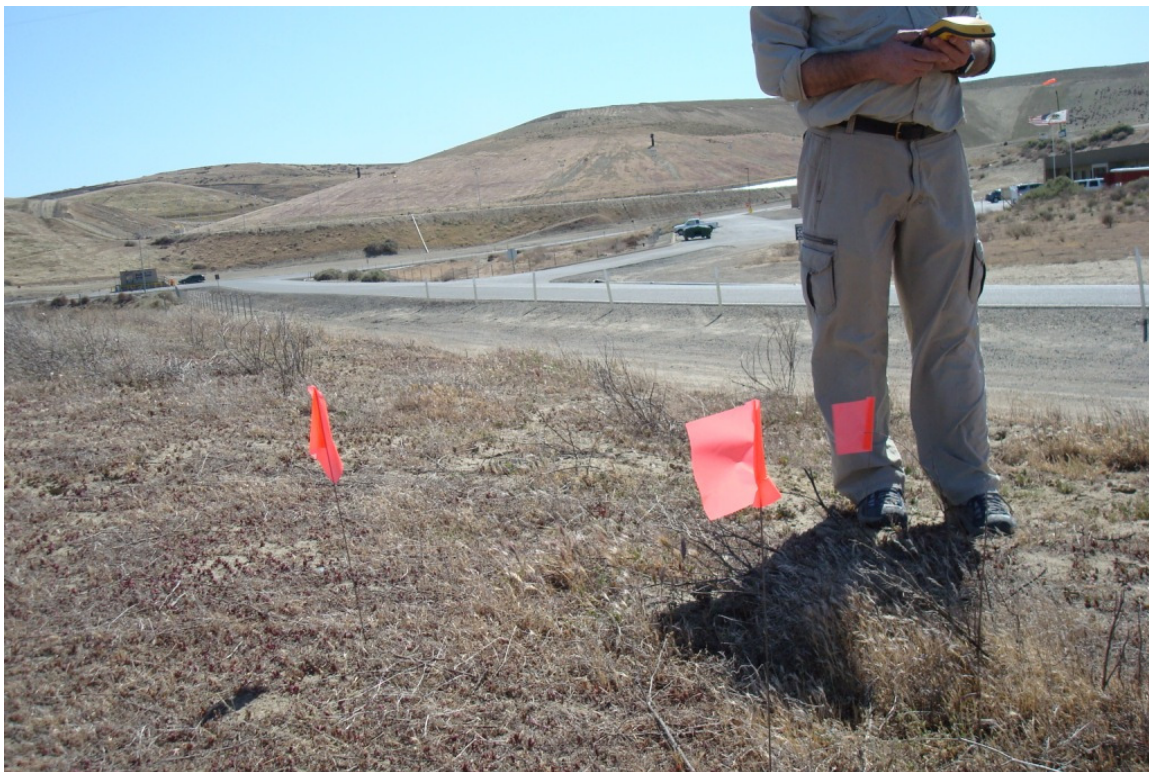
SE-04 Sampling Location
Sampled 4/1/09

35°57'31.94"N
120°00'14.35"W



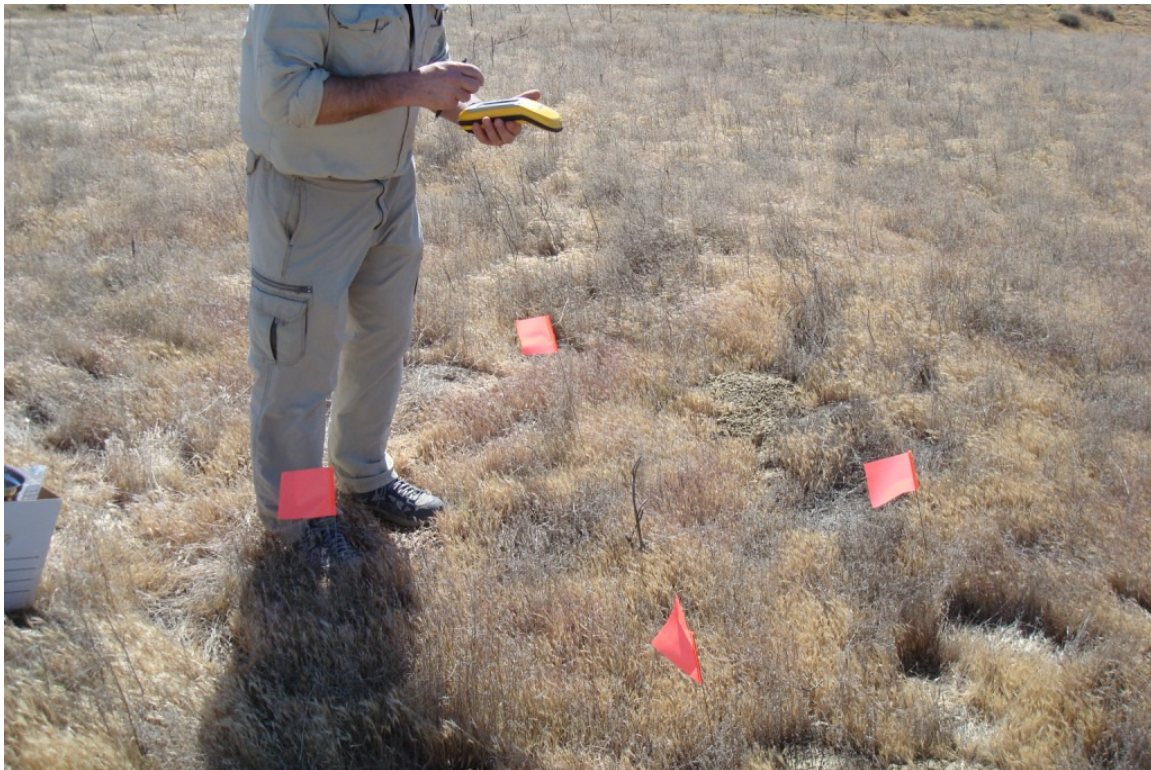
SE-03 Sampling Location
Sampled 4/1/09

35°57'37.11"N
120°00'14.41"W



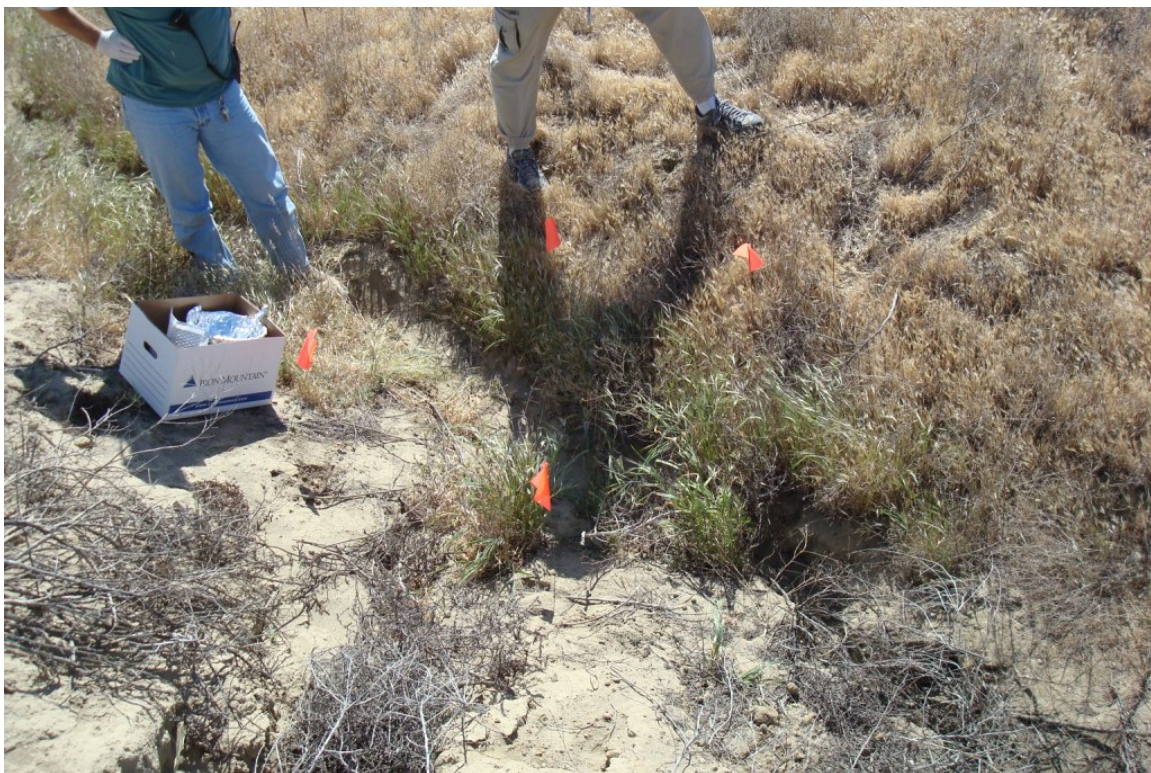
SE-02 Sampling Location
Sampled 4/1/09

35°57'42.32"N
120°00'14.79"W



SE-01 Sampling Location
Sampled 4/1/09

35°57'47.39"N
120°00'14.68"W







S Sample Area
Sampling Photo Log
Dioxin-Like PCB Congener Study
Kettleman Hills Facility
Kings County, CA

S-10 Sampling Location
Sampled 3/31/09

35°56'58.24"N
120°01'13.41"W



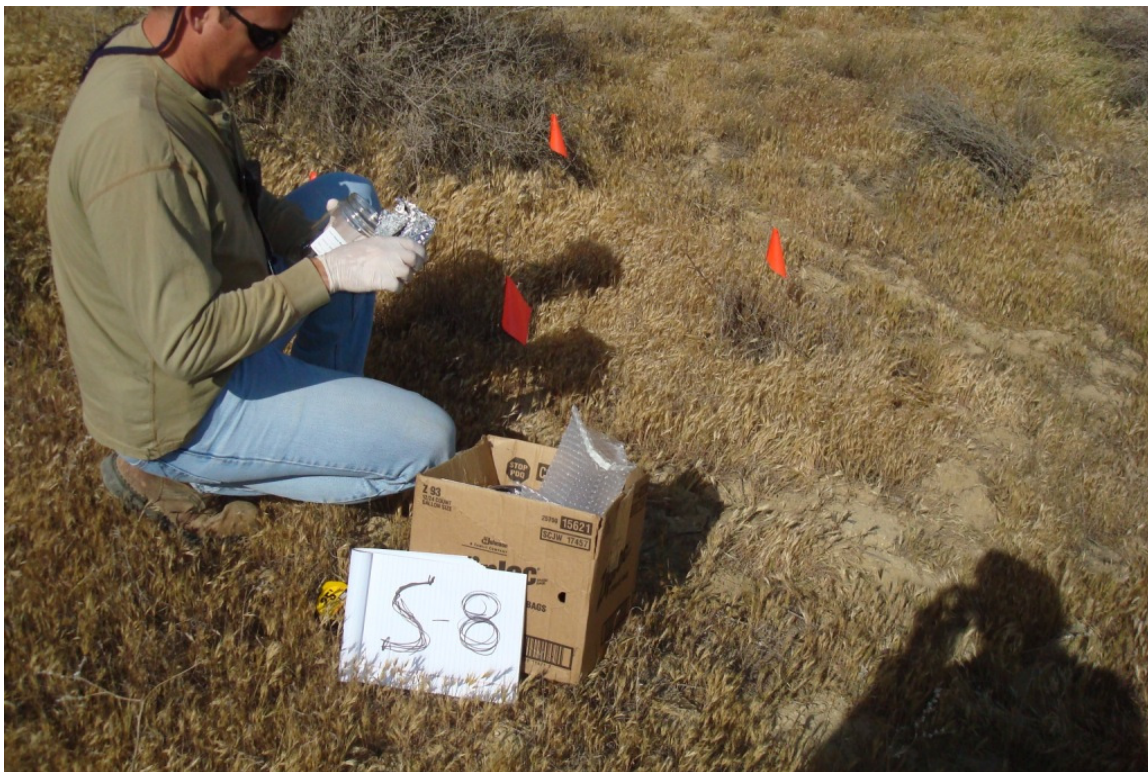
S-09 Sampling Location
Sampled 3/31/09

35°56'58.93"N
120°01'06.62"W



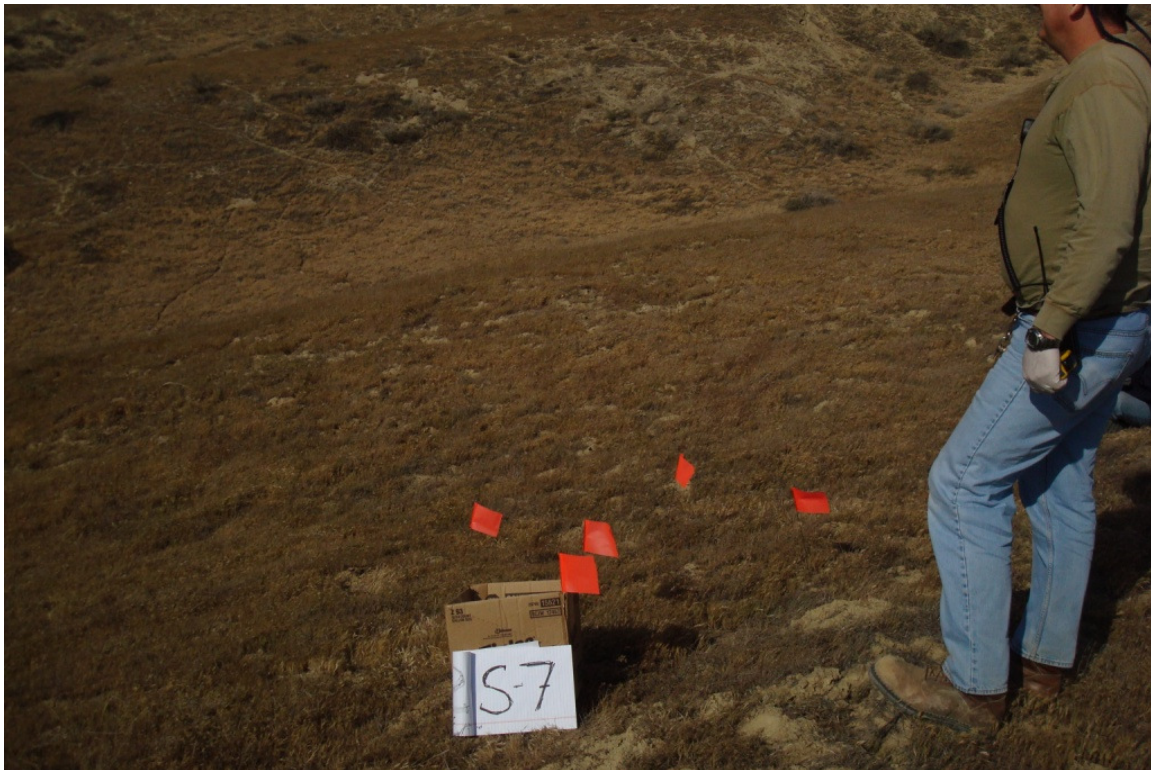
S-08 Sampling Location
Sampled 3/31/09

35°56'58.22"N
120°01'00.59"W



S-07 Sampling Location
Sampled 3/31/09

35°56'58.44"N
120°00'54.26"W



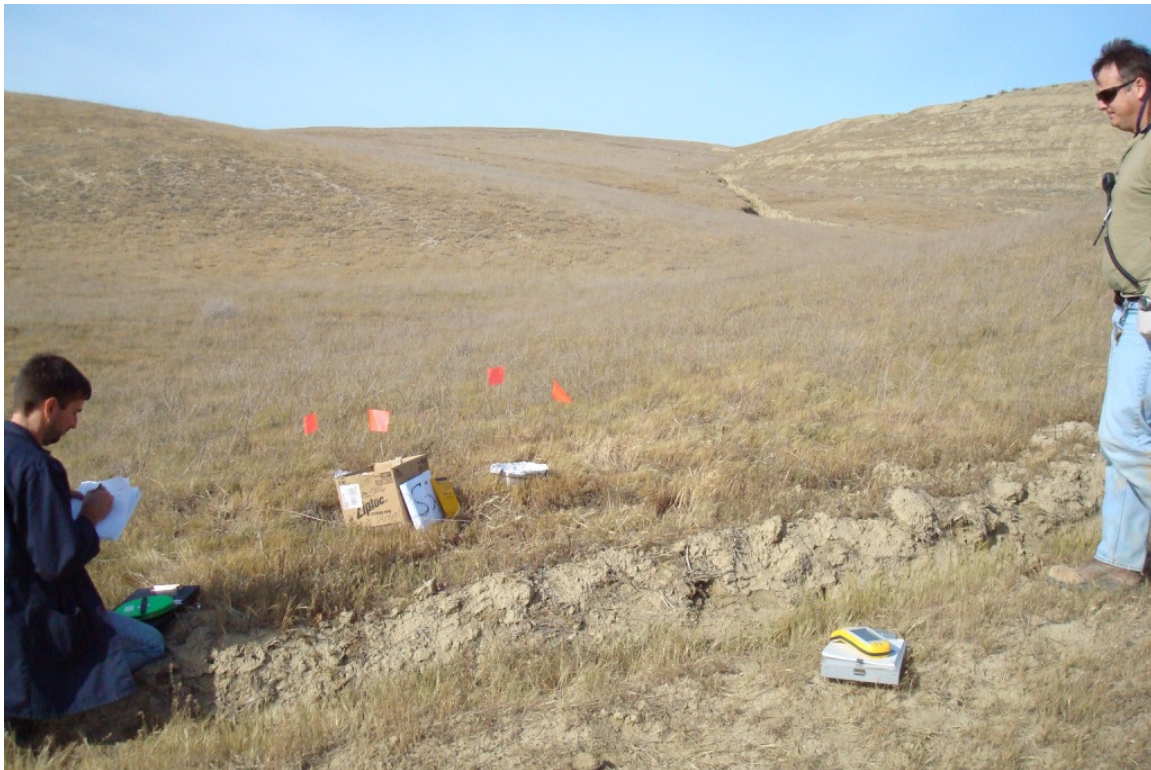
S-06 Sampling Location
Sampled 3/31/09

35°56'58.13"N
120°00'47.97"W



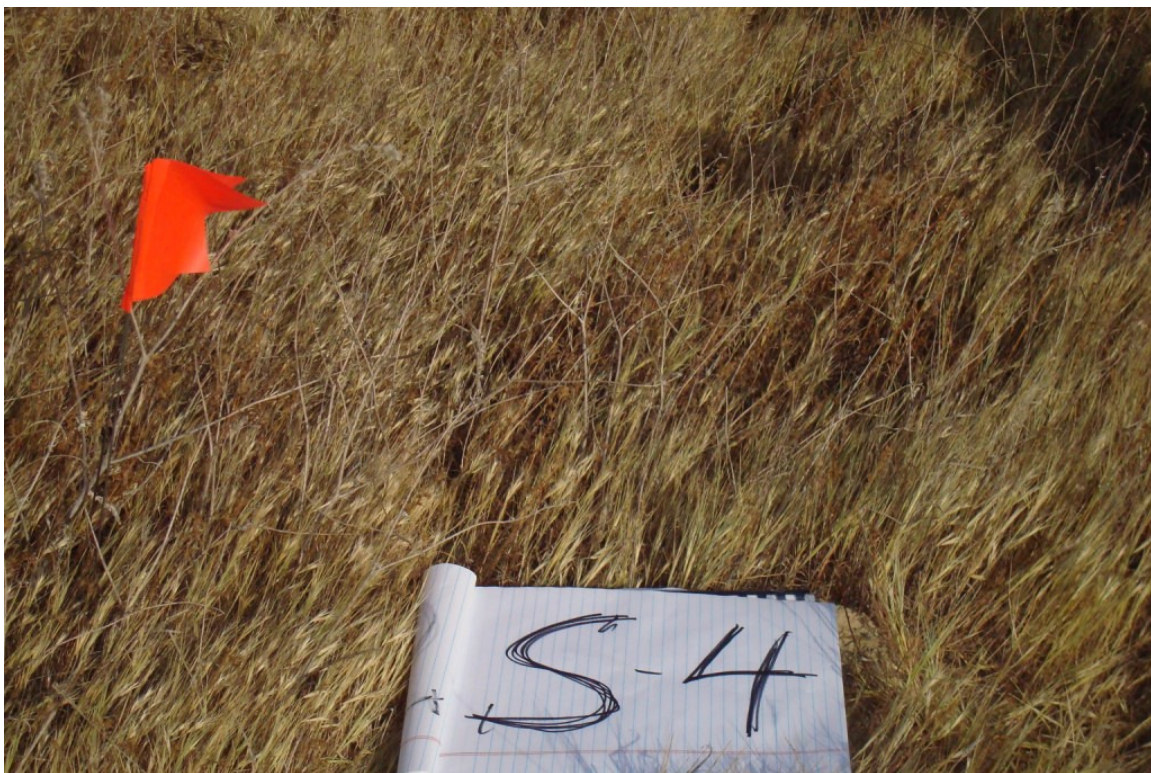
S-05 Sampling Location
Sampled 3/31/09

35°56'58.04"N
120°00'41.61"W



S-04 Sampling Location
Sampled 3/31/09

35°56'57.93"N
120°00'35.16"W



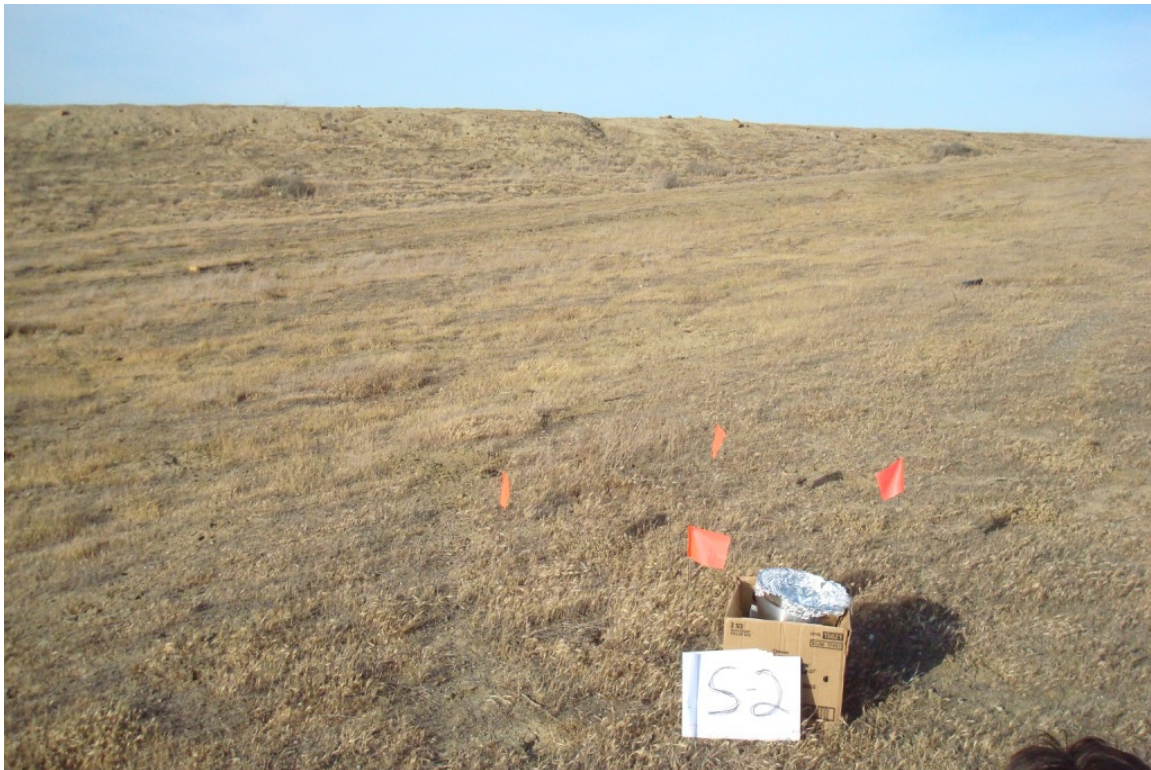
S-03 Sampling Location
Sampled 3/31/09

35°56'58.10"N
120°00'28.75"W



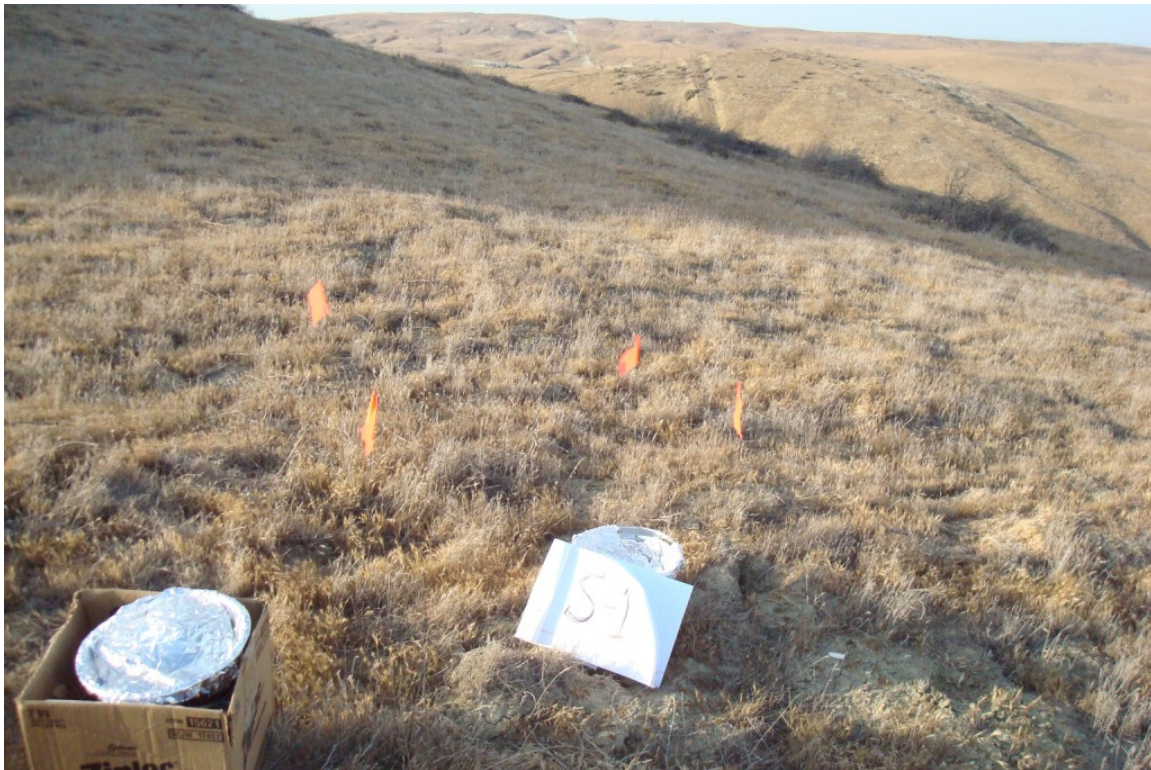
S-02 Sampling Location
Sampled 3/31/09

35°56'58.22"N
120°00'22.22"W



S-01 Sampling Location
Sampled 3/31/09

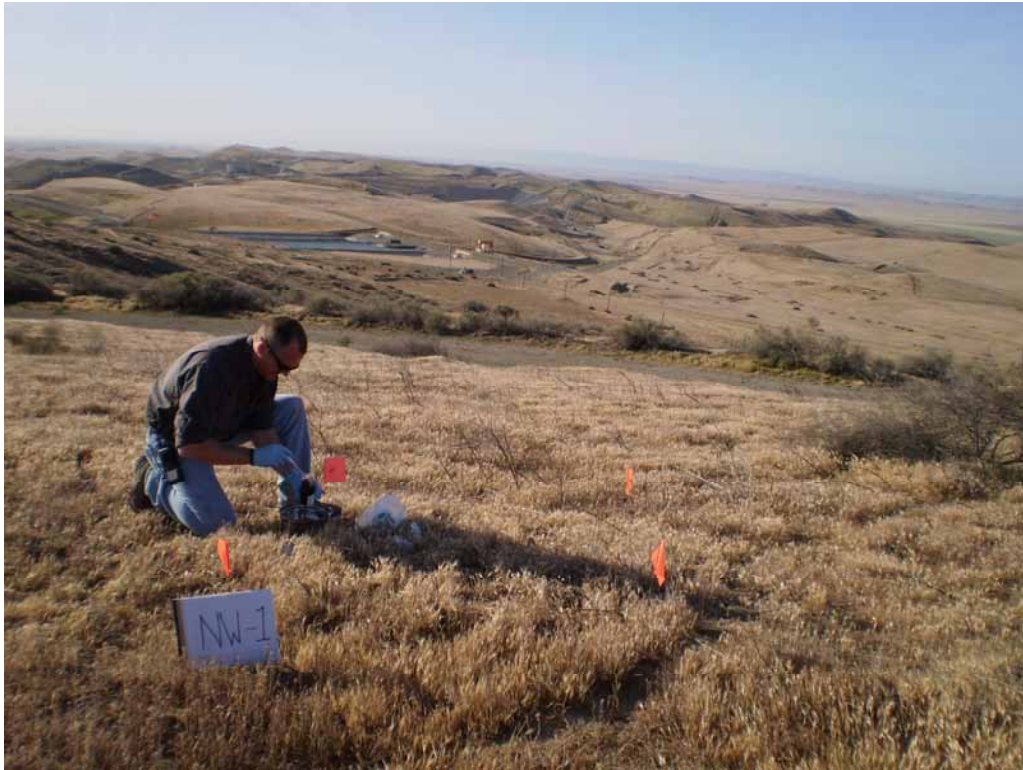
35°56'57.85"N
120°00'16.26"W



NW Sample Area
Sampling Photo Log
Dioxin-Like PCB Congener Study
Kettleman Hills Facility
Kings County, CA

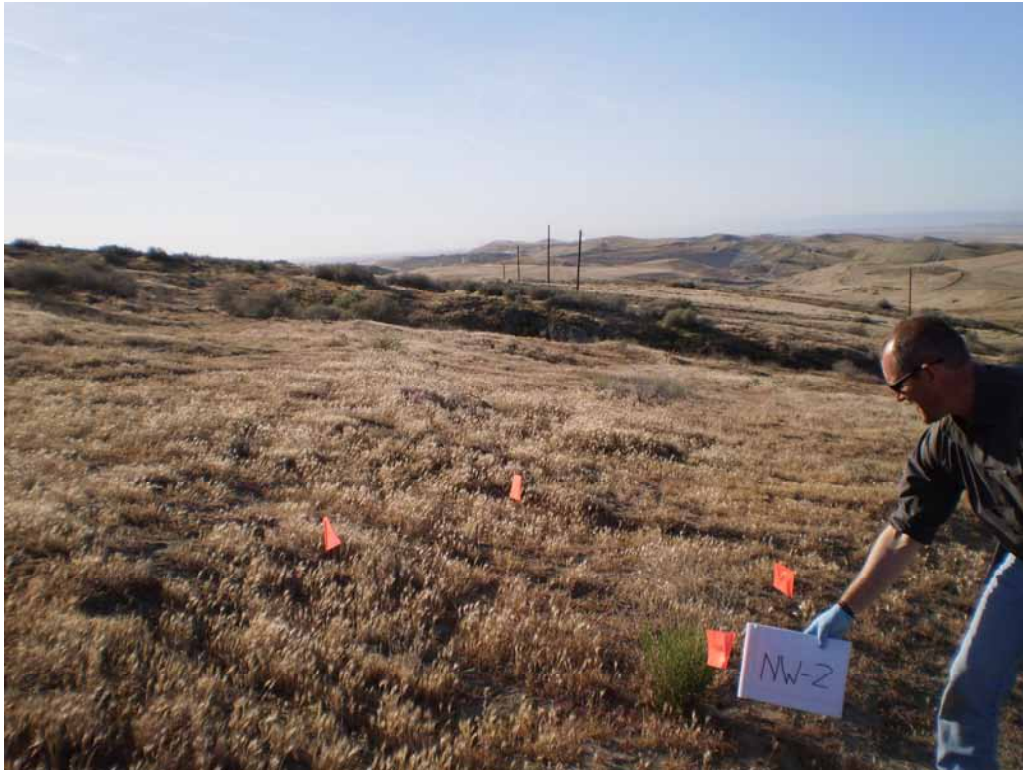
NW-01 Sampling Location
Sampled 4/1/09

35°58'39.643"N
120°01'22.646"W



NW-02 Sampling Location
Sampled 4/1/09

35°58'39.697"N
120°01'28.997"W



NW-03 Sampling Location
Sampled 4/1/09

35°58'39.614"N
120°01'35.821"W



NW-04 Sampling Location
Sampled 4/1/09

35°58'39.694"N
120°01'41.569"W



NW-05 Sampling Location
Sampled 4/1/09

35°58'39.437"N
120°01'48.352"W



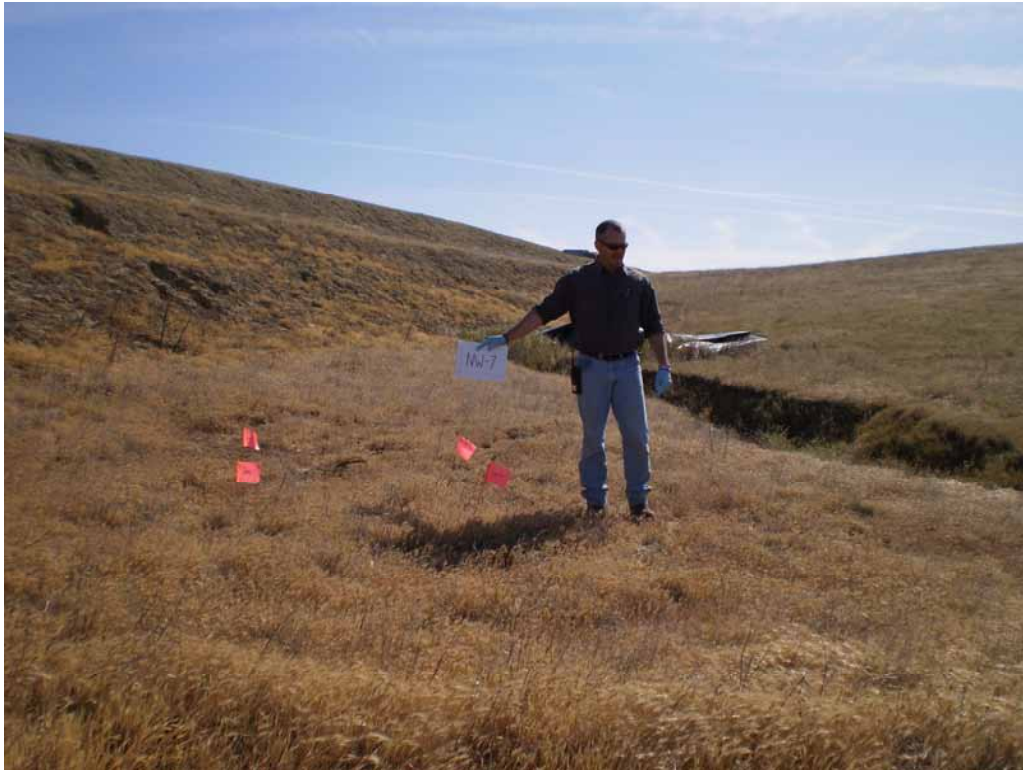
NW-06 Sampling Location
Sampled 4/1/09

35°58'37.427"N
120°01'48.972"W



NW-07 Sampling Location
Sampled 4/1/09

35°58'30.841"N
120°01'49.043"W



NW-08 Sampling Location
Sampled 4/1/09

35°58'26.872"N
120°01'48.921"W



Ecological Activity in NW Sample Area
Near NW-08



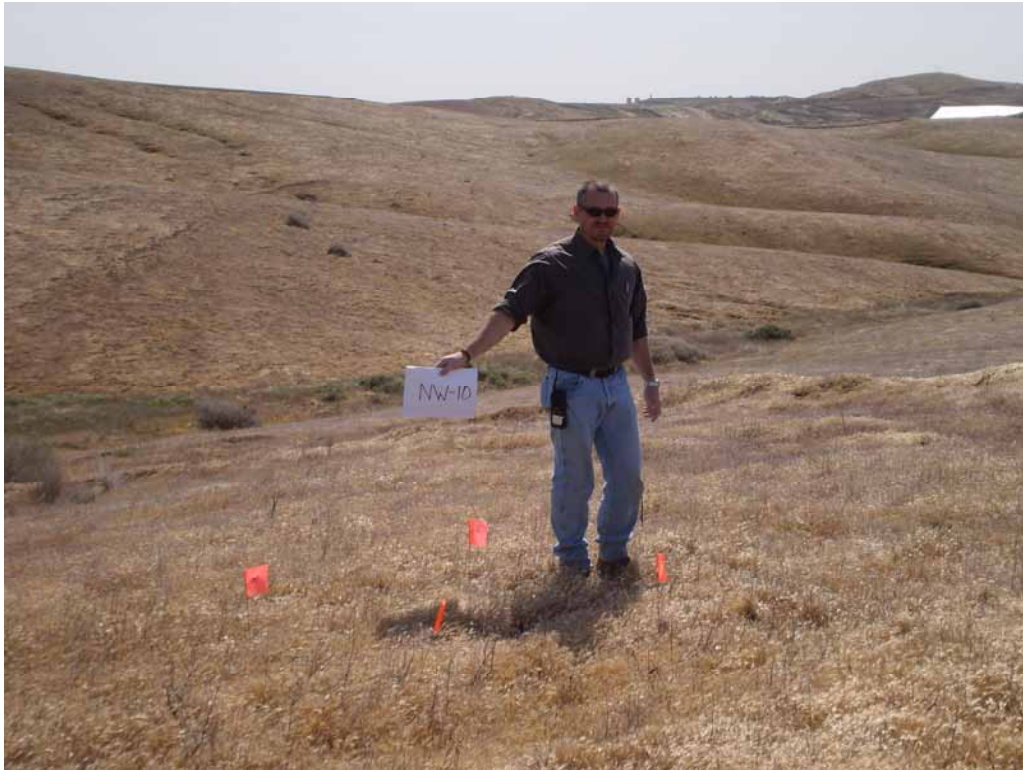
NW-09 Sampling Location
Sampled 4/1/09

35°58'21.846"N
120°01'48.983"W



NW-10 Sampling Location
Sampled 4/1/09

35°58'16.806"N
120°01'49.032"W



NE Sample Area
Sampling Photo Log
Dioxin-Like PCB Congener Study
Kettleman Hills Facility
Kings County, CA

NE-10 Sampling Location
Sampled 3/31/09

35°57'52.623"N
120°00'15.065"W



NE-09 Sampling Location
Sampled 3/31/09

35°57'57.686"N
120°00'15.208"W



NE-08 Sampling Location
Sampled 3/31/09

35°58'02.882"N
120°00'15.308"W



NE-07 Sampling Location
Sampled 3/31/09

35°58'08.023"N
120°00'15.351"W



NE-06 Sampling Location
Sampled 3/31/09

35°58'13.214"N
120°00'15.332"W



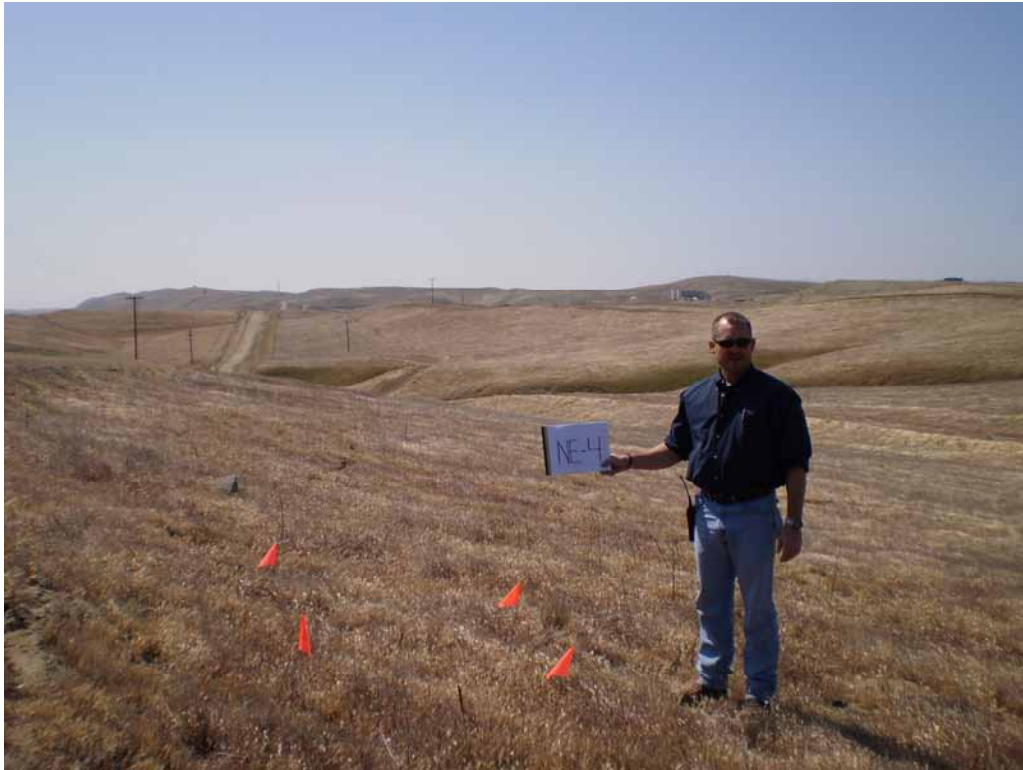
NE-05 Sampling Location
Sampled 3/31/09

35°58'18.539"N
120°00'15.390"W



NE-04 Sampling Location
Sampled 3/31/09

35°58'23.448"N
120°00'15.633"W



NE-03 Sampling Location
Sampled 3/31/09

35°58'28.321"N
120°00'15.406"W



Ecological Activity in NE Sample Area (specifically NE-03)
Outside Fence and Buffer Zone



NE-02 Sampling Location
Sampled 3/31/09

35°58'33.242"N
120°00'15.531"W



NE-01 Sampling Location
Sampled 3/31/09

35°58'34.183"N
120°00'19.432"W



Ecological Activity near Northern Property Line
Outside Fence and Buffer Zone



Ecological Activity near Northern Property Line
Outside Fence and Buffer Zone



N Sample Area
Sampling Photo Log
Dioxin-Like PCB Congener Study
Kettleman Hills Facility
Kings County, CA

N-01 Sampling Location
Sampled 3/31/09

35°58'38.033"N
120°00'23.163"W





N-02 Sampling Location
Sampled 3/31/09

35°58'40.302"N
120°00'25.804"W



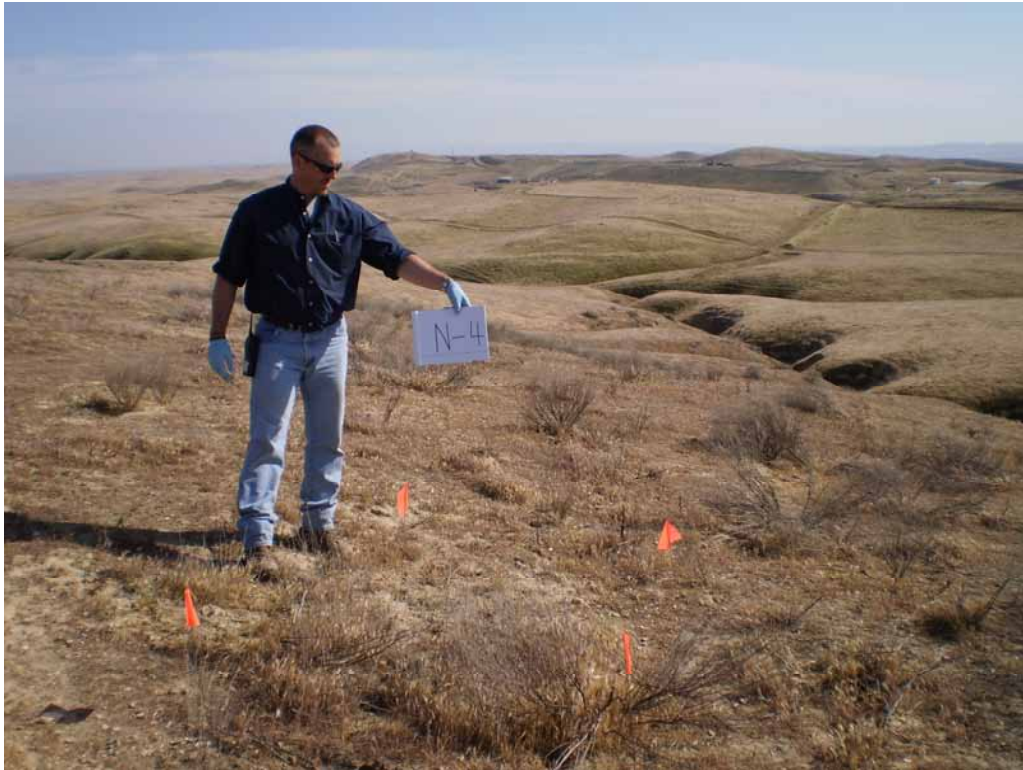
N-03 Sampling Location
Sampled 3/31/09

35°58'40.353"N
120°00'31.875"W



N-04 Sampling Location
Sampled 3/31/09

35°58'0840.327"N
120°00'38.161"W

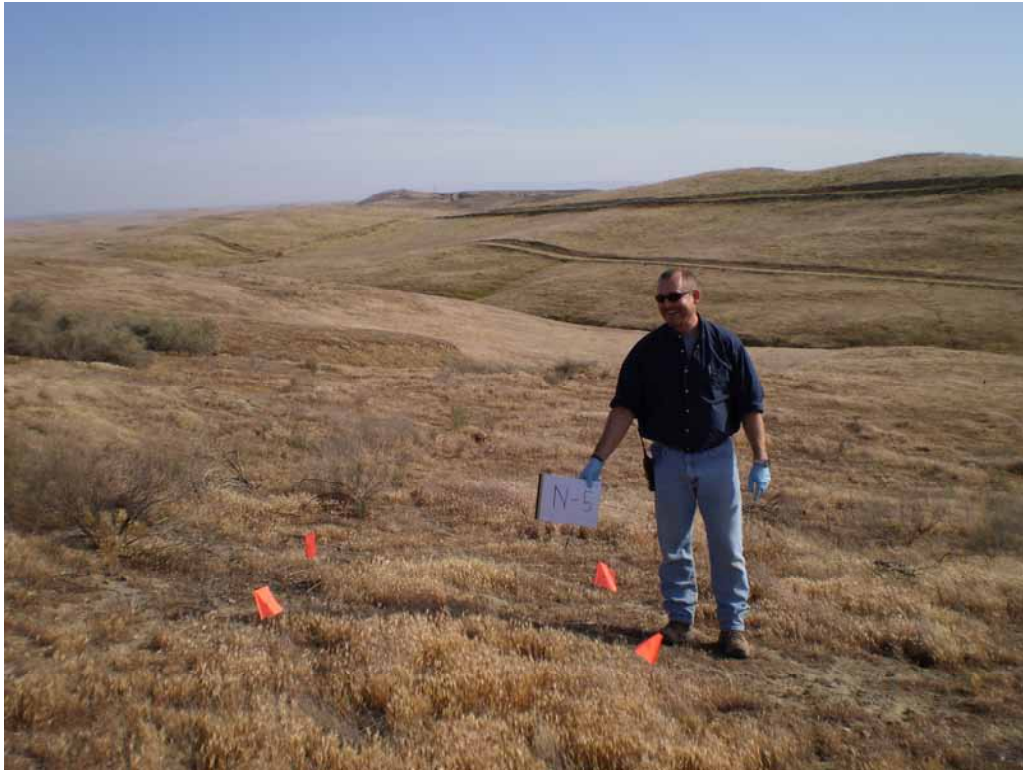


Ecological Activity in N Sample Area (specifically N-04)
Outside Fence and Buffer Zone

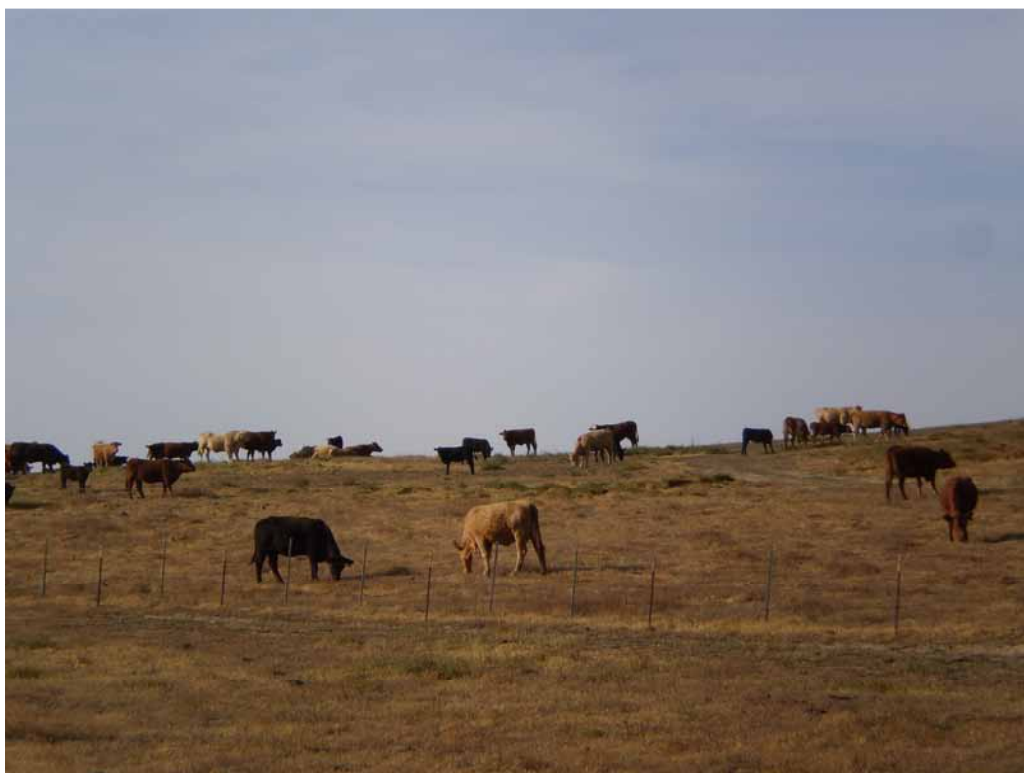


N-05 Sampling Location
Sampled 3/31/09

35°58'40.150"N
120°00'44.854"W



Ecological Activity in N Sample Area (specifically N-05)
Outside Fence and Buffer Zone



N Rinsate Sample
Sampled 3/31/09



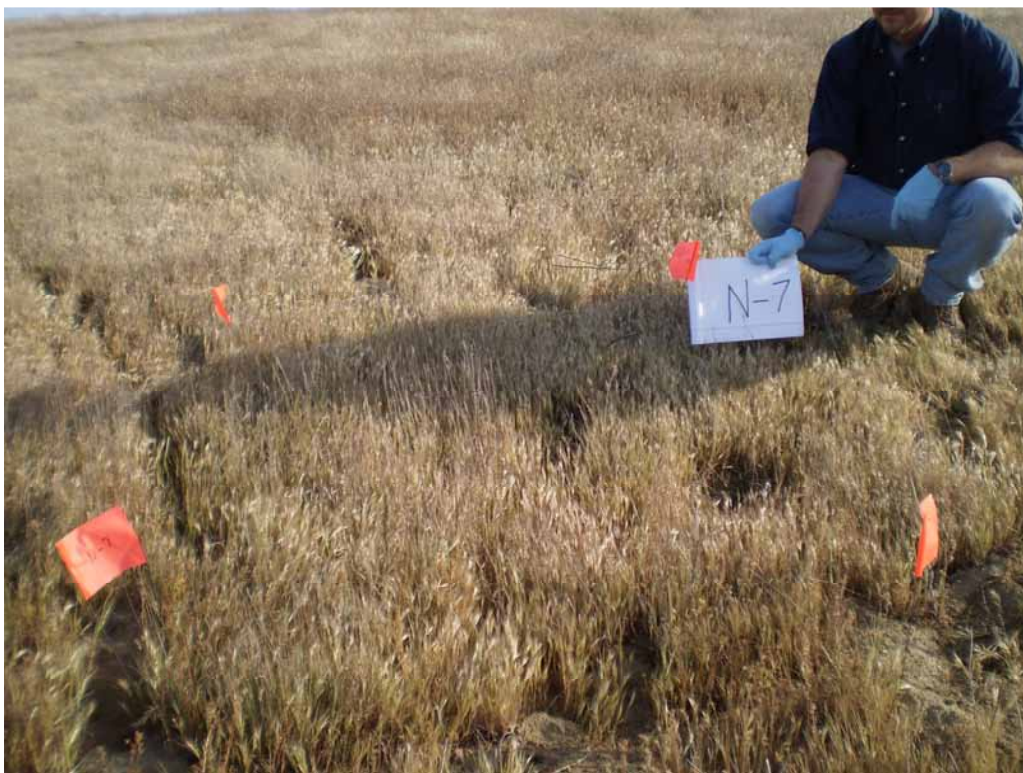
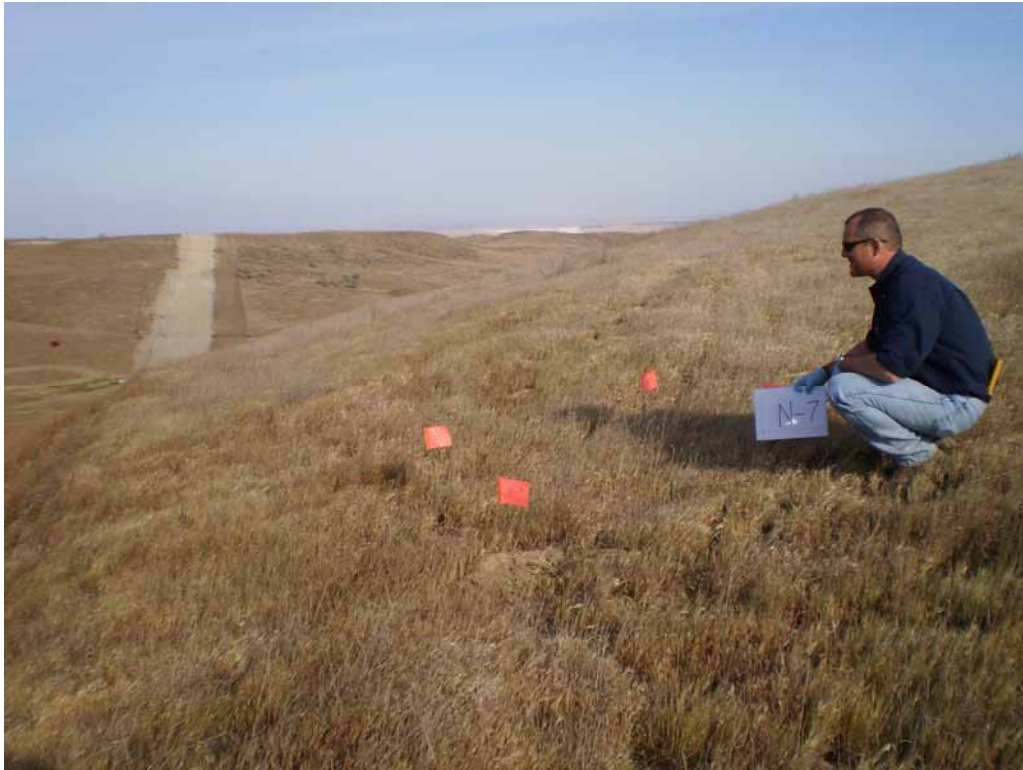
N-06 Sampling Location
Sampled 3/31/09

35°58'40.127"N
120°00'50.980"W



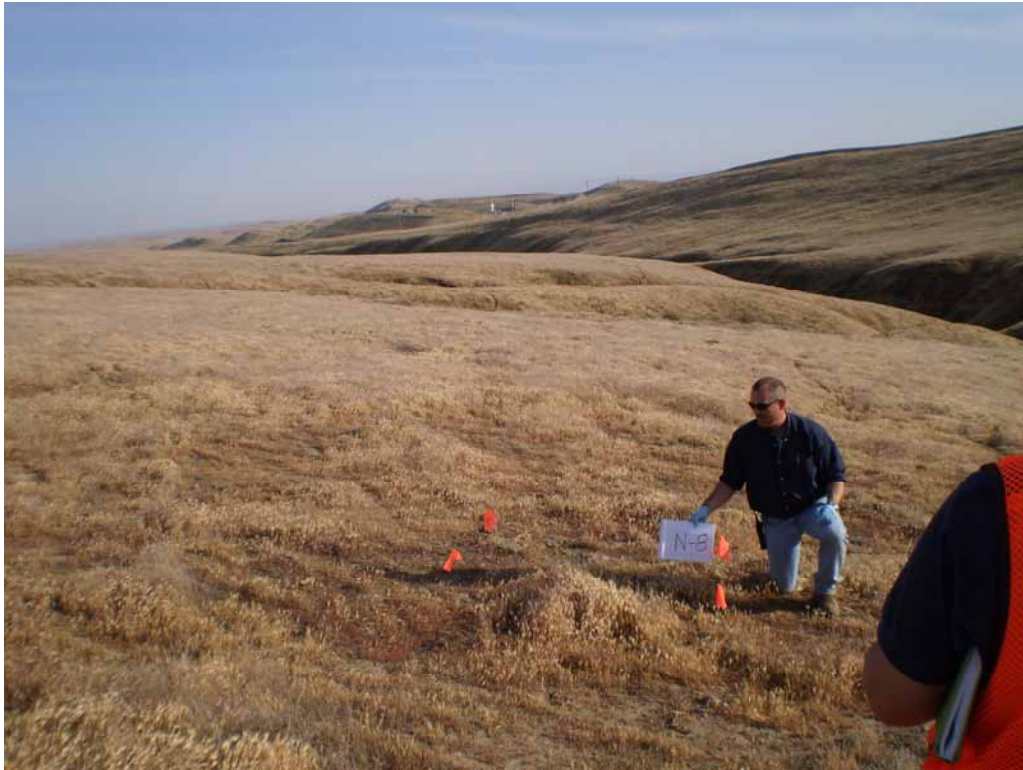
N-07 Sampling Location
Sampled 3/31/09

35°58'40.110"N
120°00'57.286"W



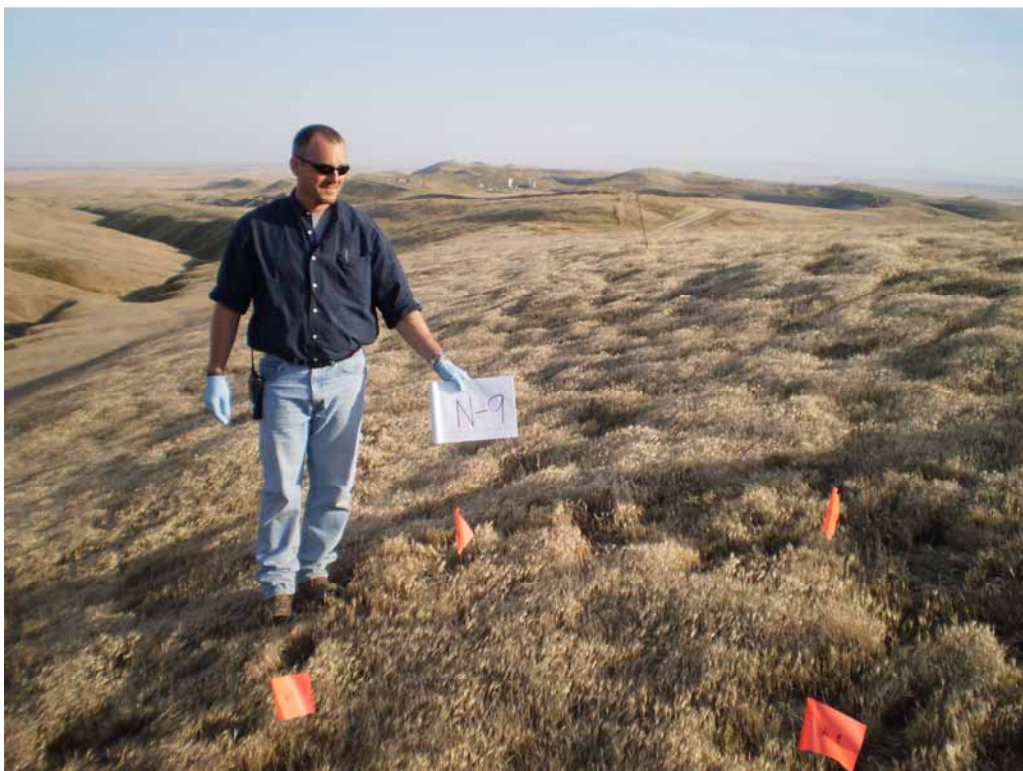
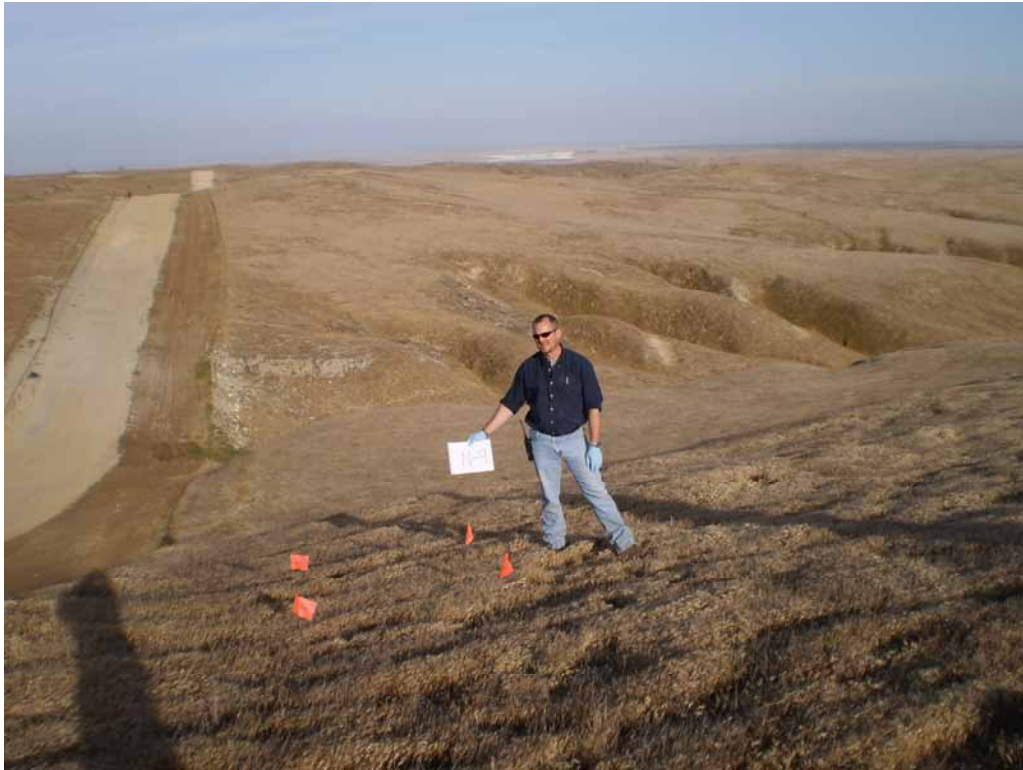
N-08 Sampling Location
Sampled 3/31/09

35°58'38.844"N
120°01'03.727"W



N-09 Sampling Location
Sampled 3/31/09

35°58'33.242"N
120°00'15.531"W



N-10 Sampling Location
Sampled 3/31/09

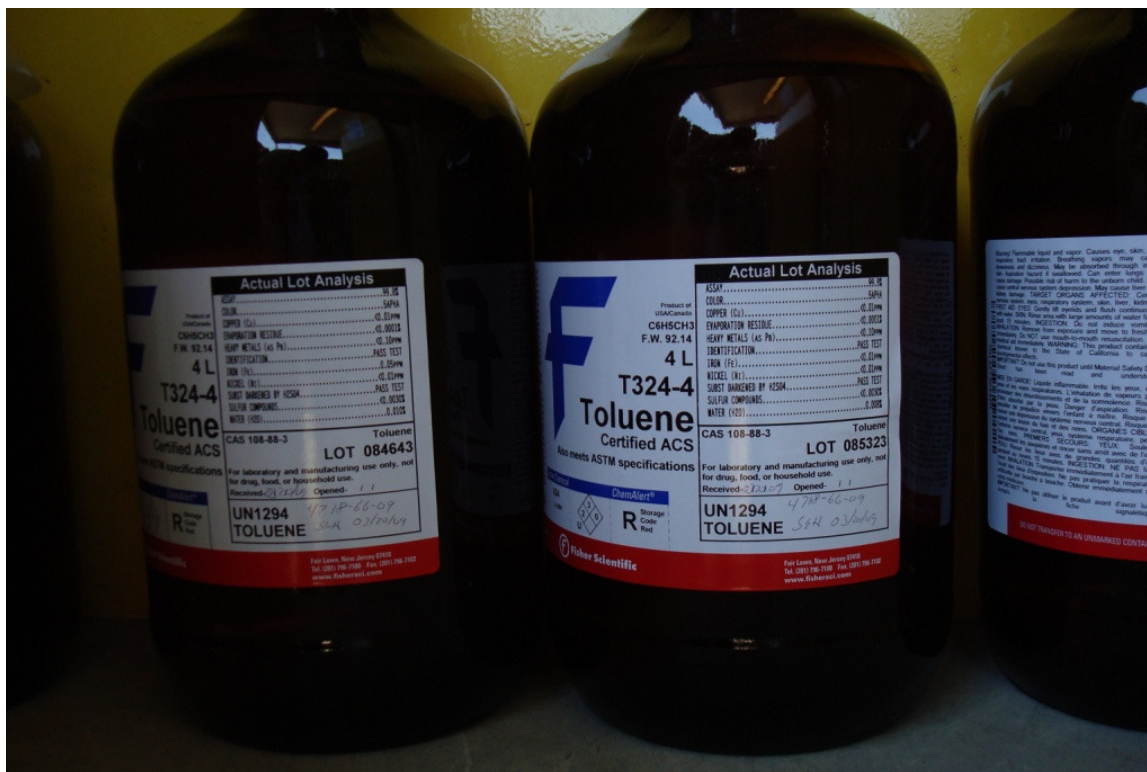
35°58'39.703"N
120°01'16.320"W



Decontamination Area
Sampling Photo Log
Dioxin-Like PCB Congener Study
Kettleman Hills Facility
Kings County, CA





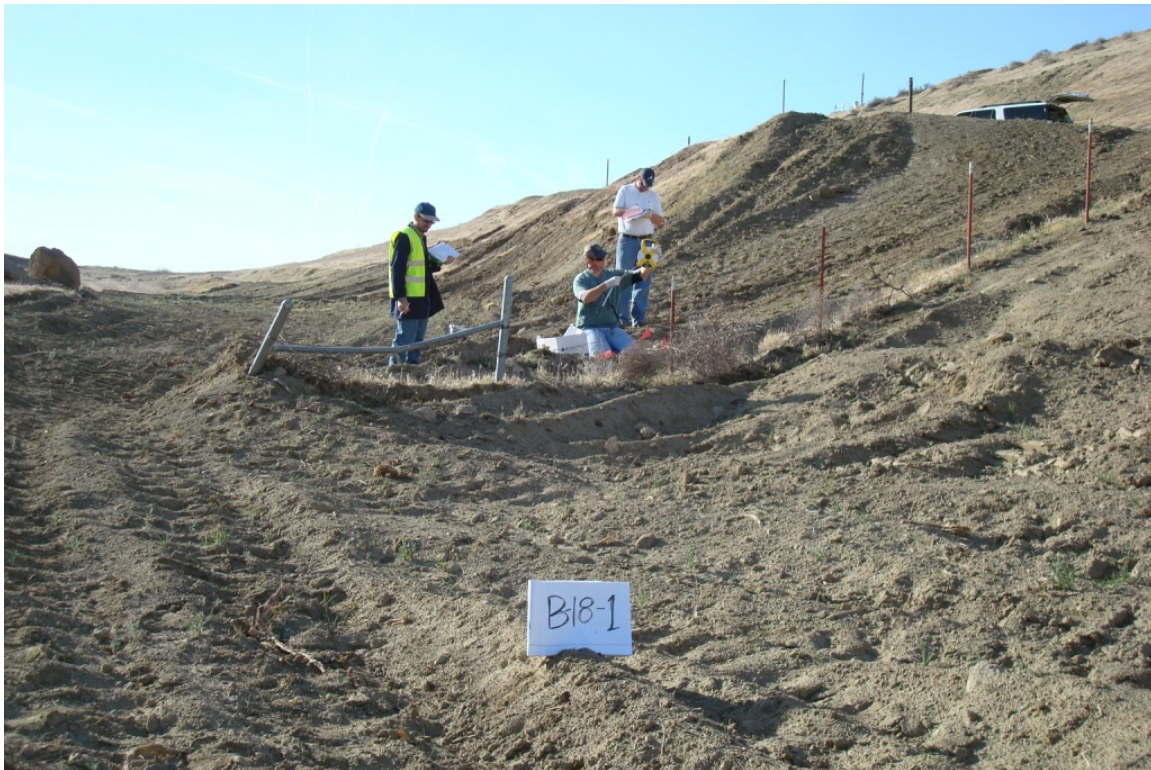




B-18 Sample Area
Sampling Photo Log
Dioxin-Like PCB Congener Study
Kettleman Hills Facility
Kings County, CA

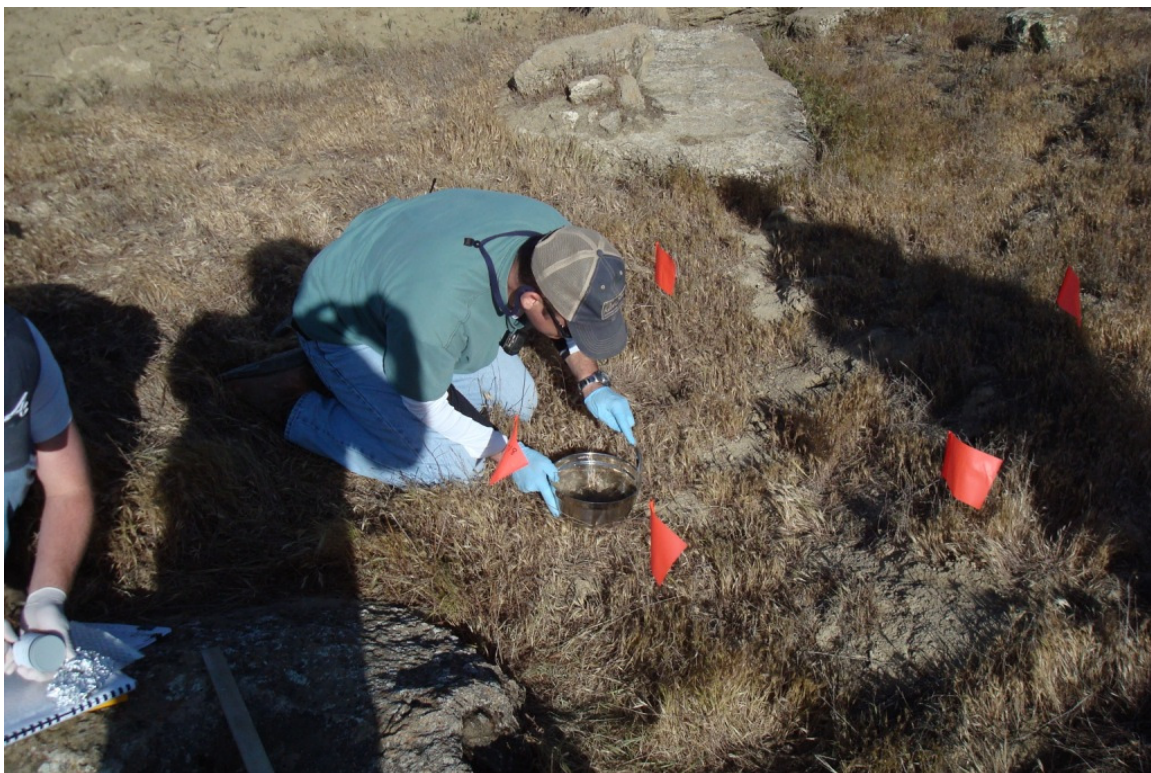
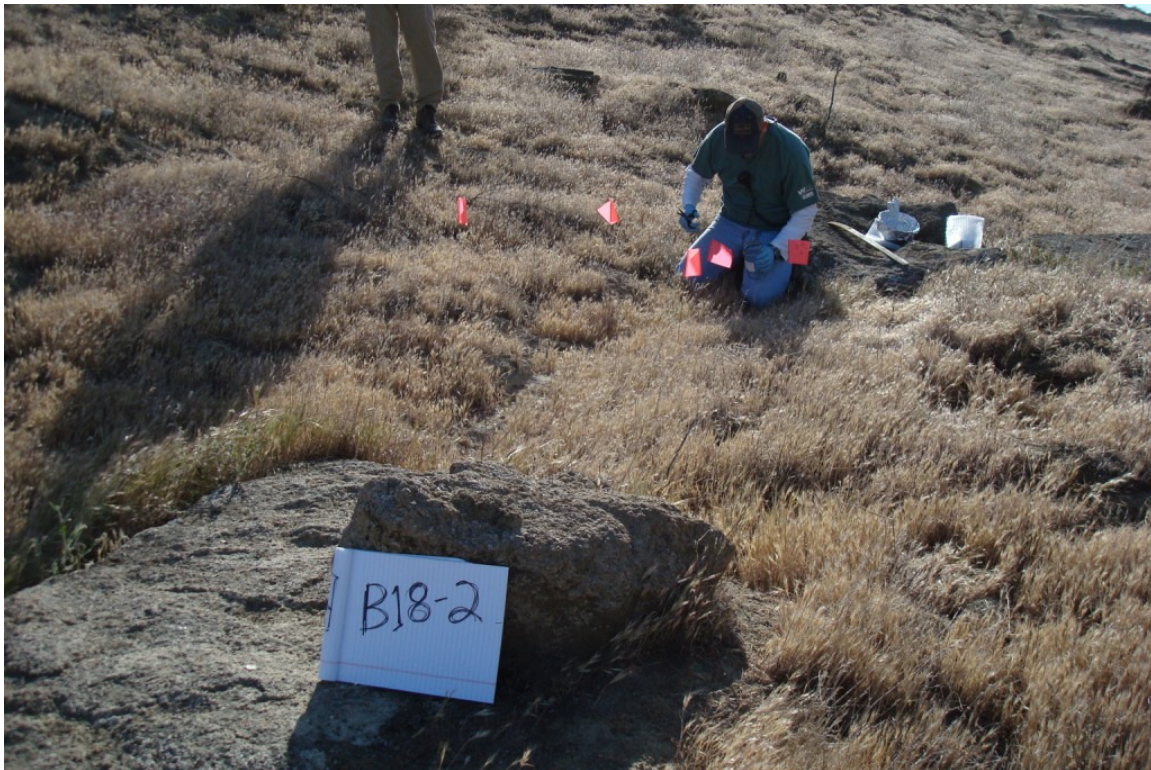
B18-01 Sampling Location
Sampled 4/1/09

35°57'13.87"N
120°00'23.02"W



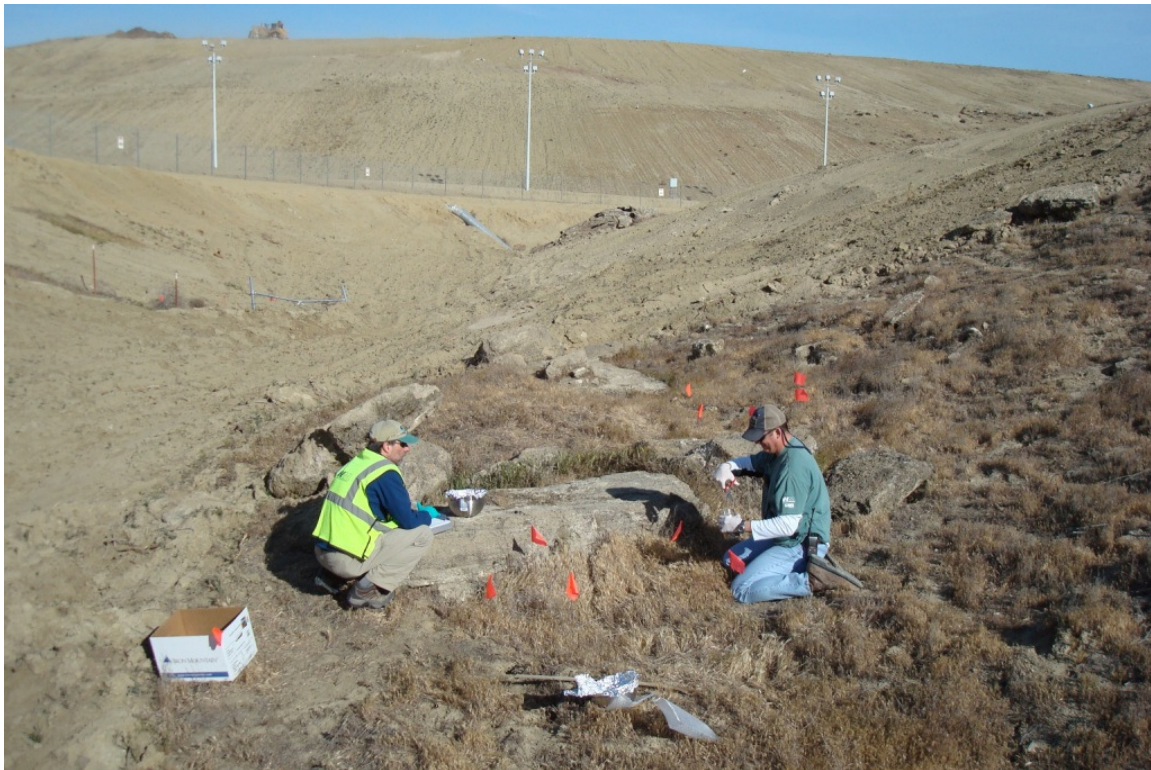
B18-02 Sampling Location
Sampled 4/1/09

35°57'13.63"N
120°00'22.26"W



B18-03 Sampling Location
Sampled 4/1/09

35°57'13.50"N
120°00'22.21"W



Sampling Photo Log - B18
11/4/2009

Dioxin-like PCB Congeners Study
Chemical Waste Management, Inc. -Kettleman Hills Facility
Kings County, CA

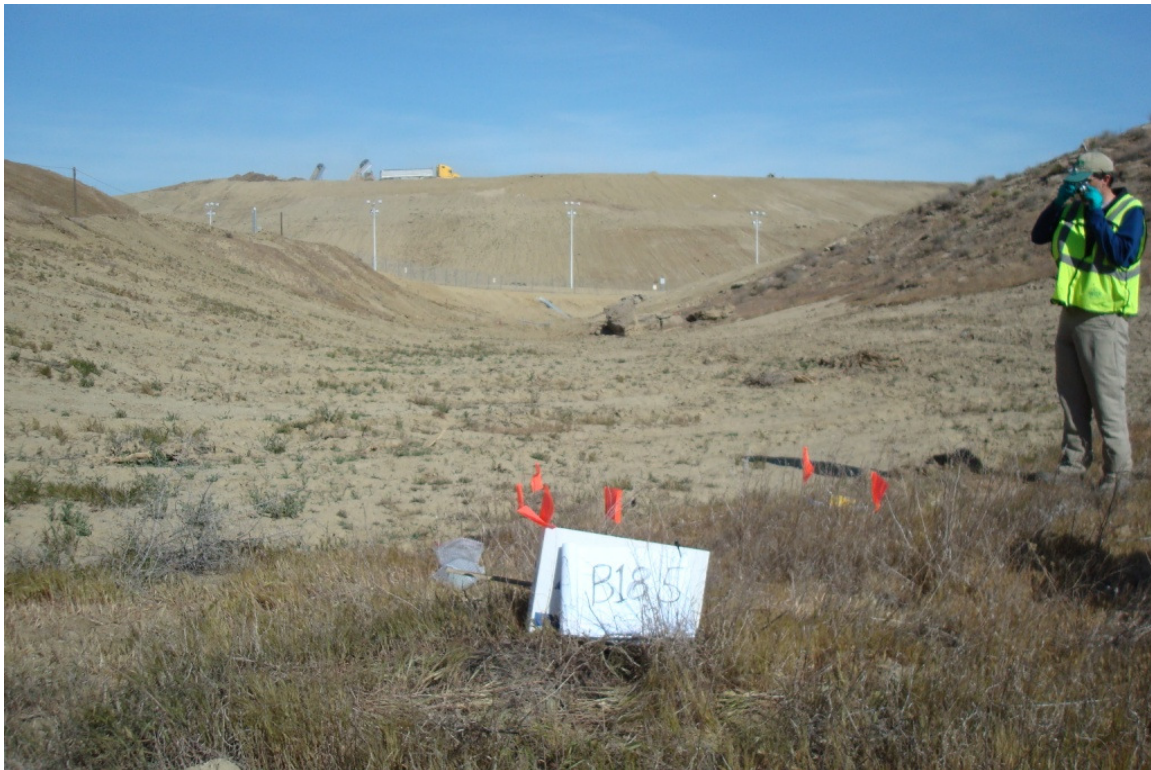
B18-04 Sampling Location
Sampled 4/1/09

35°57'13.37"N
120°00'22.10"W



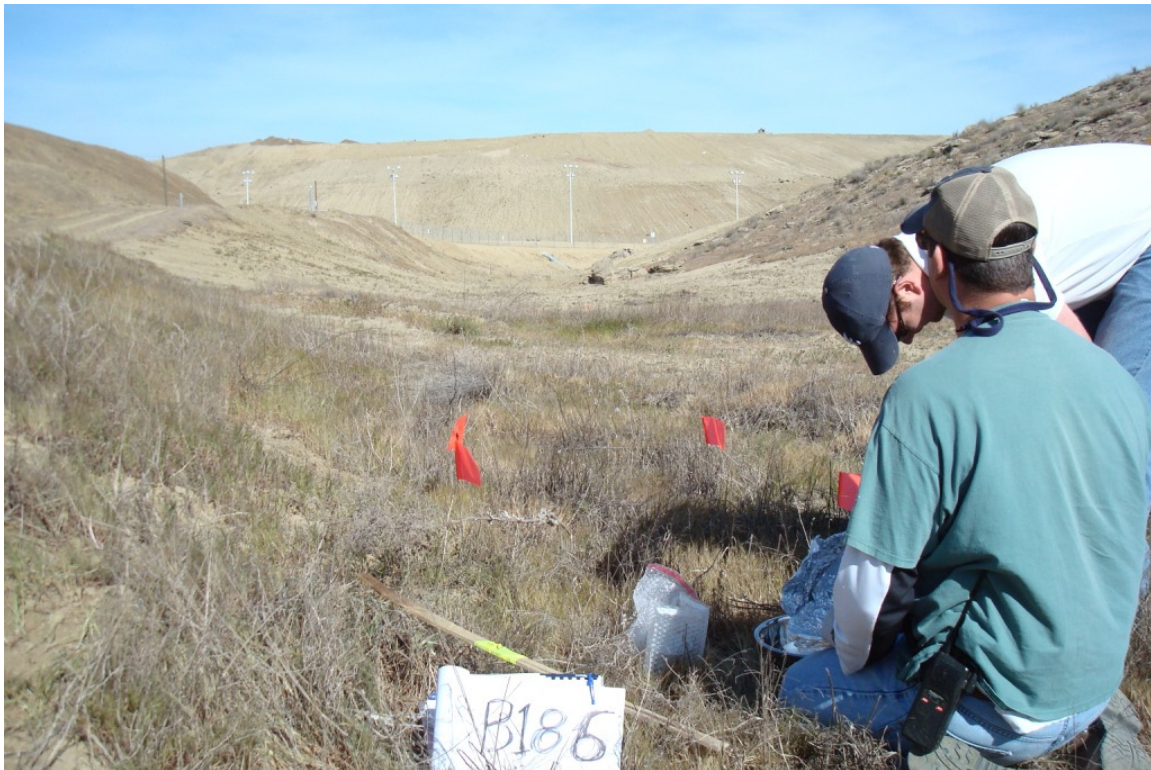
B18-05 Sampling Location
Sampled 4/1/09

35°57'11.82"N
120°00'20.71"W



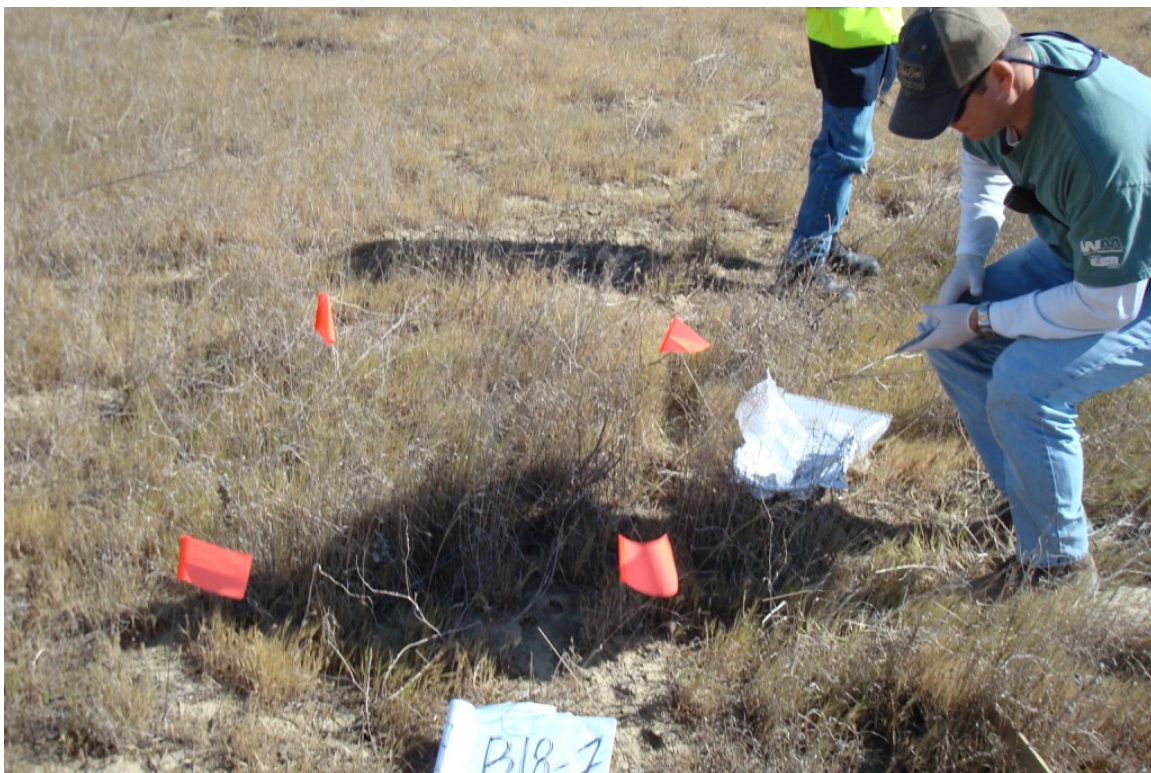
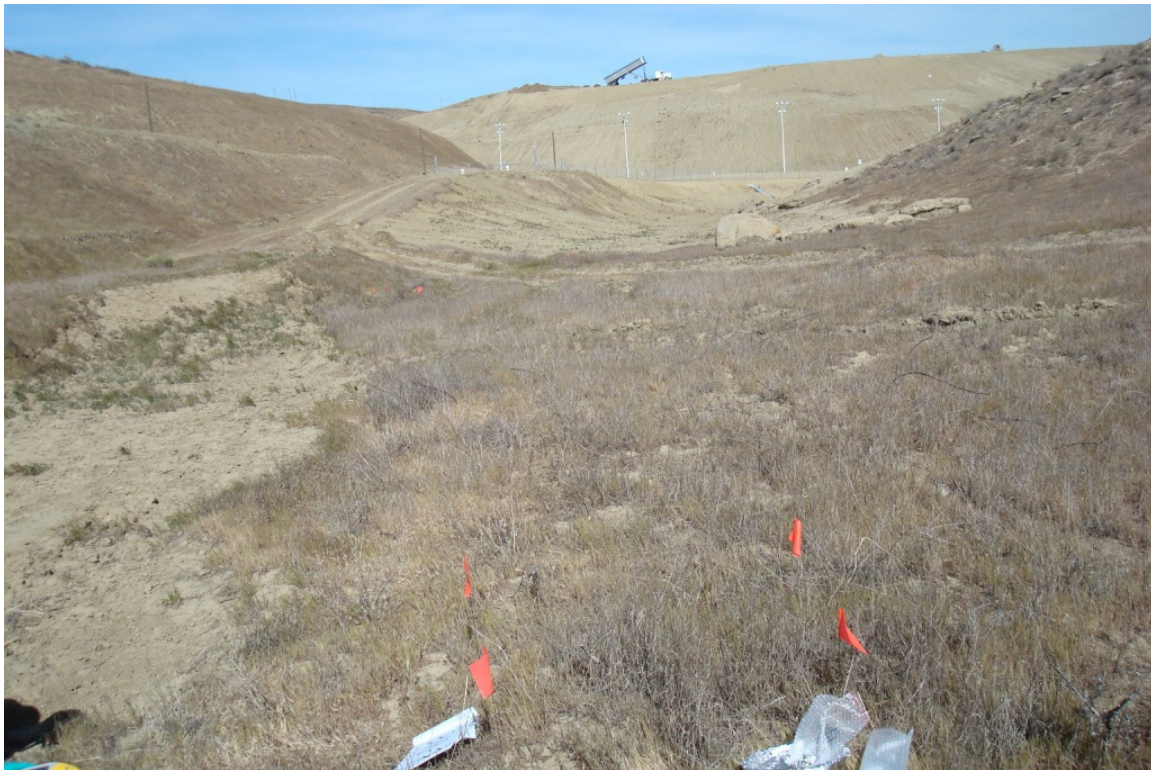
B18-06 Sampling Location
Sampled 4/1/09

35°57'11.30"N
120°00'20.15"W



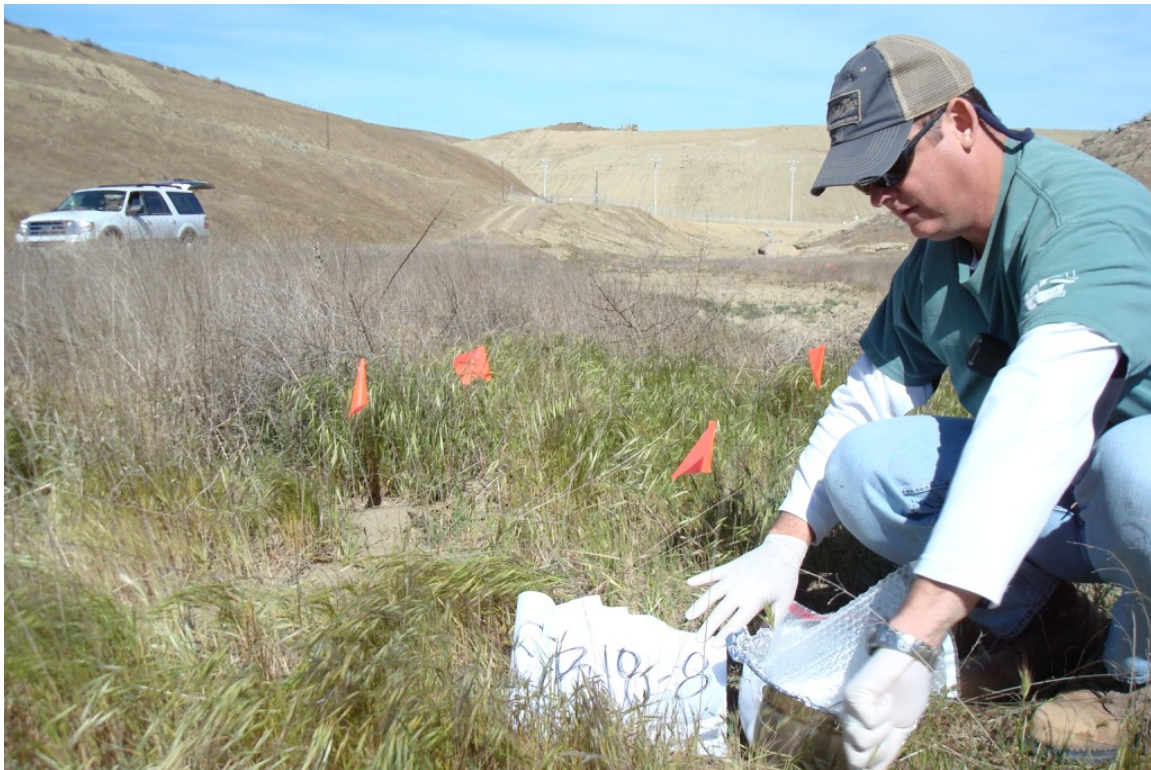
B18-07 Sampling Location
Sampled 4/1/09

35°57'10.94"N
120°00'19.29"W



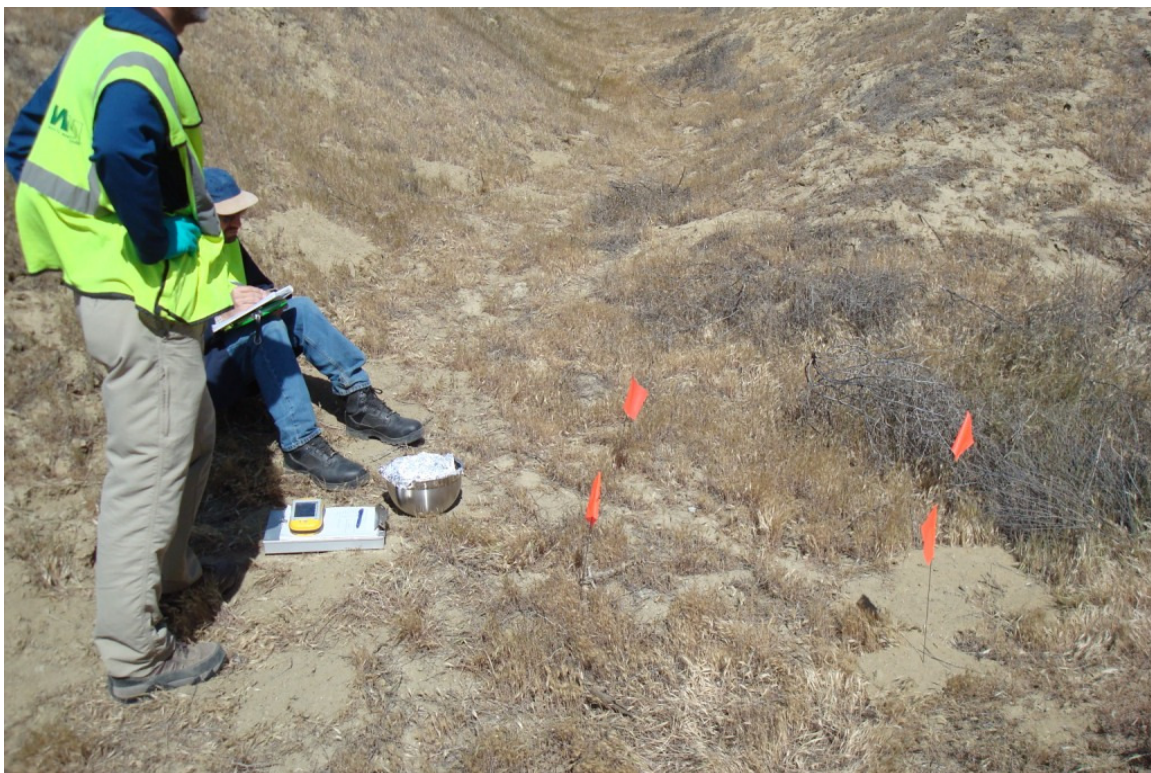
B18-08 Sampling Location
Sampled 4/1/09

35°57'10.13"N
120°00'18.47"W



B18-09 Sampling Location
Sampled 4/1/09

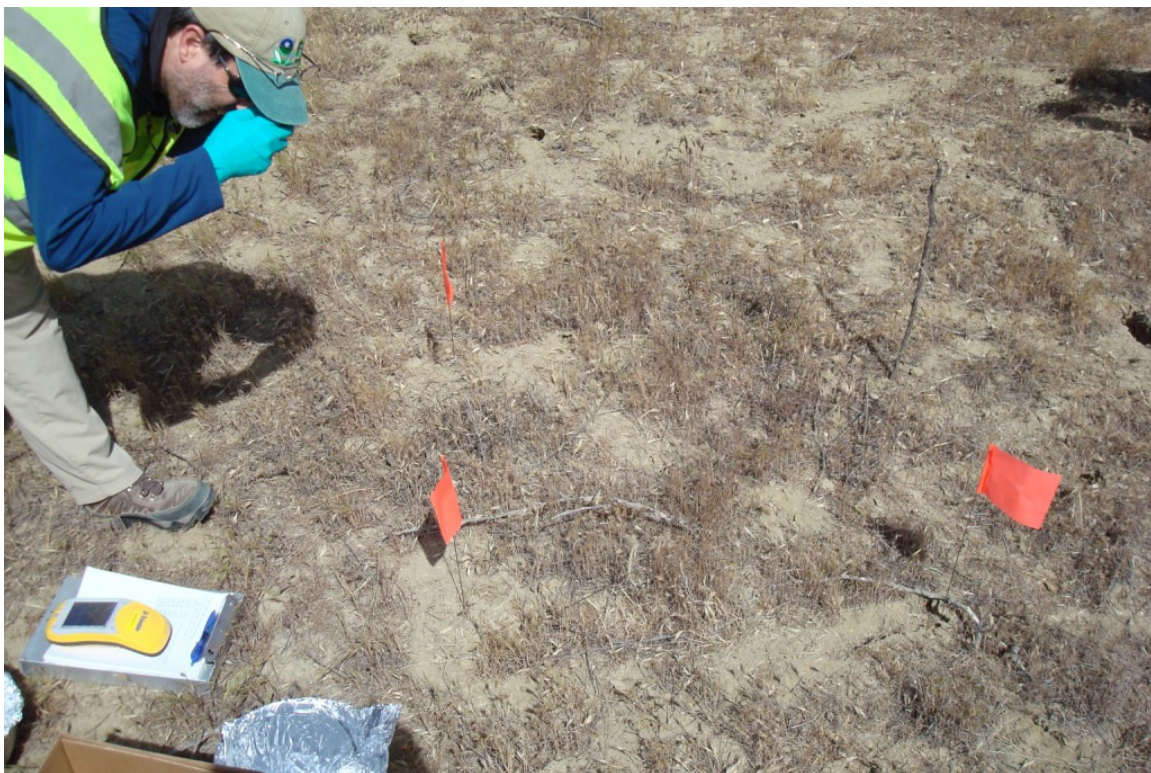
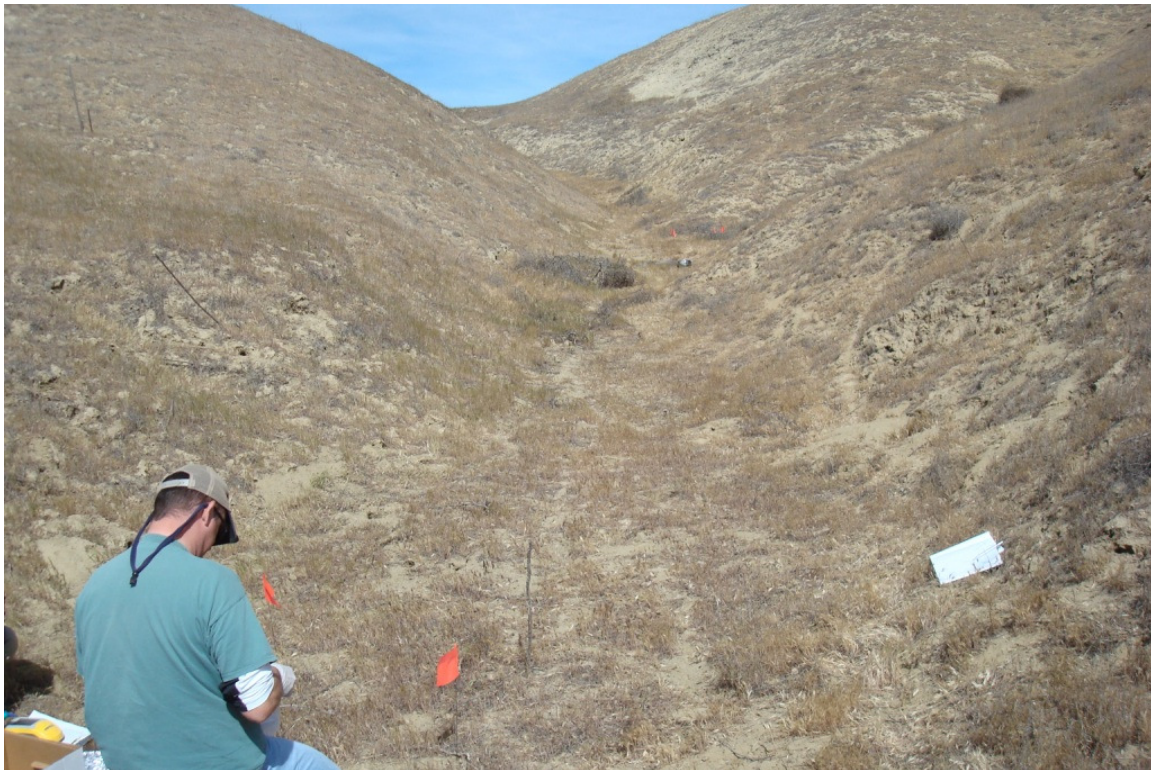
35°57'07.12"N
120°00'15.30"W





B18-10 Sampling Location
Sampled 4/1/09

35°57'06.50"N
120°00'14.89"W



Sampling Photo Log - B18
11/4/2009

Dioxin-like PCB Congeners Study
Chemical Waste Management, Inc. -Kettleman Hills Facility
Kings County, CA