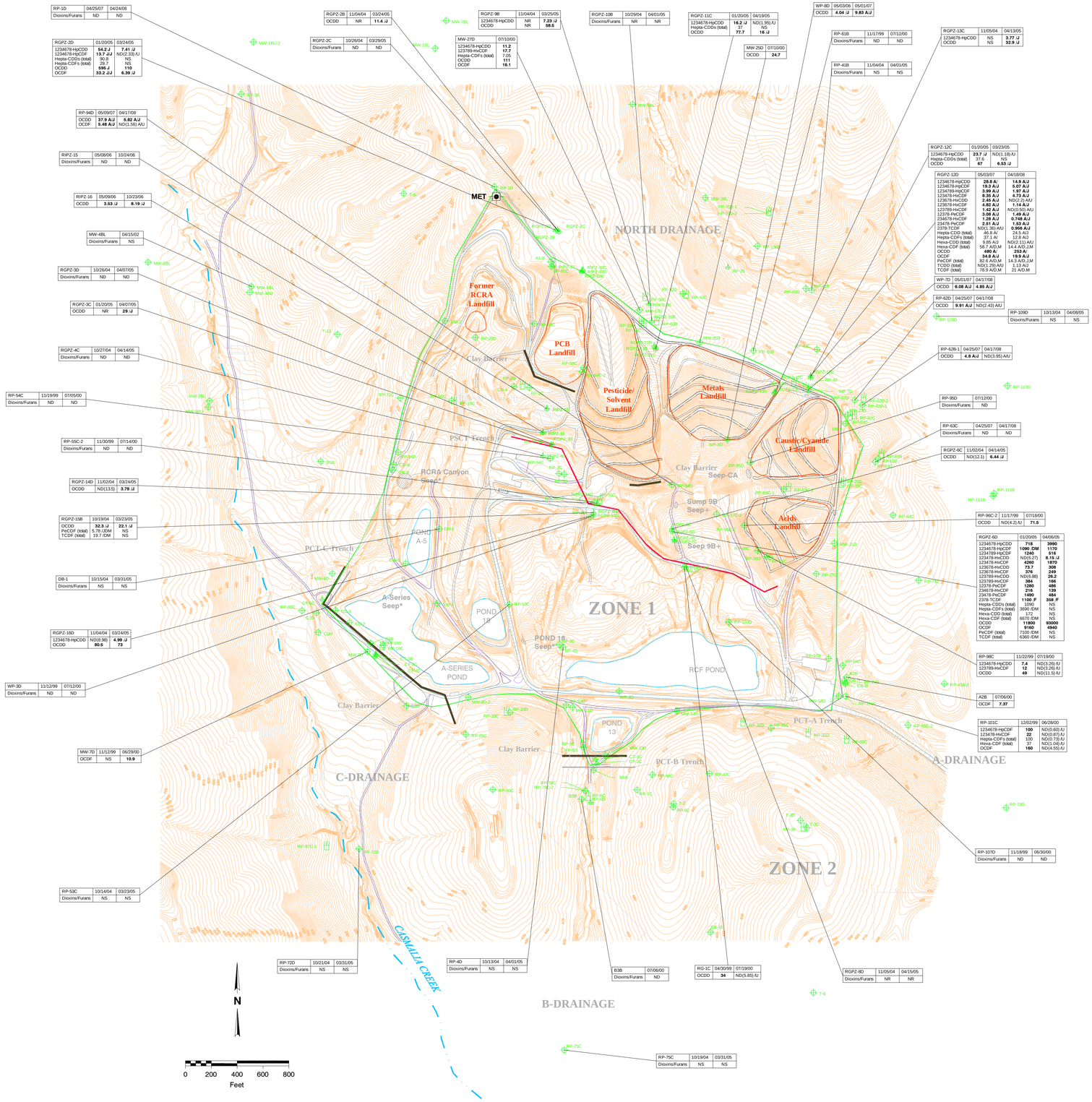

RP-1D	04/25/07	04/24/08
Dioxins/Furans	ND	ND

RGPZ-2D	01/20/05	03/24/05
1234678-HpCDD	**6.0 J**	7.41 J
1234678-HpCDF	**13.7 JJ**	ND(4.24) AJ
Hepta-CDDs (total)	30.8	NS
Hepta-CDFs (total)	29.7	NS
OCDD	**598 J**	**110**
OCDF	**33.2 JJ**	**6.39 J**

RP-94D	05/09/07	04/17/08
OCDD	**37.9 AJ**	**8.82 AJ**
OCDF	**5.48 AJ**	ND(1.56) AJ

RIPZ-15	05/08/06	10/24/06
Dioxins/Furans	ND	ND

RIPZ-16	05/09/06	10/23/06
OCDD	**3.53 JJ**	**8.19 JJ**

MW-48L	04/15/02
Dioxins/Furans	NS

RGPZ-3D	10/26/04	04/07/05
Dioxins/Furans	ND	ND

RGPZ-3C	01/20/05	04/07/05
OCDD	NR	**29 JJ**

RGPZ-4C	10/27/04	04/14/05
Dioxins/Furans	ND	ND

RP-54C	11/19/99	07/05/00
Dioxins/Furans	ND	ND

RP-55C-2	11/30/99	07/14/00
Dioxins/Furans	ND	ND

RGPZ-14D	11/02/04	03/24/05
OCDD	ND(13.5)	**3.78 JJ**

RGPZ-15B	10/19/04	03/23/05
OCDD	**32.3 JJ**	**22.1 JJ**
PeCDF (total)	5.78 JDM	NS
TCDF (total)	19.7 JDM	NS

DB-1	10/15/04	03/31/05
Dioxins/Furans	NS	NS

RGPZ-16D	11/04/04	03/24/05
1234678-HpCDD	ND(8.98)	**4.99 JJ**
OCDD	**80.5**	**73**

WP-3D	11/12/99	07/12/00
Dioxins/Furans	ND	ND

MW-7D	11/12/99	06/29/00
OCDF	NS	**10.9**

RP-53C	10/14/04	03/23/05
Dioxins/Furans	NS	NS

RGPZ-2B	11/04/04	03/24/05
OCDD	NR	**11.4 JJ**

RGPZ-2C	10/26/04	03/29/05
Dioxins/Furans	ND	ND

MW-27D	07/10/00
1234678-HpCDD	**11.2**
123789-HxCDF	**17.7**
Hepta-CDFs (total)	7.05
OCDD	**111**
OCDF	**16.1**

RGPZ-9B	11/04/04	03/25/05
1234678-HpCDD	NR	**7.23 JJ**
OCDD	NR	**58.5**

RGPZ-10B	10/29/04	04/01/05
Dioxins/Furans	NR	NR

RGPZ-11C	01/20/05	04/19/05
1234678-HpCDD	**16.2 JJ**	ND(1.95) AJ
Hepta-CDDs (total)	37	NS
OCDD	**77.7**	**16 JJ**

MW-25D	07/10/00
OCDD	**24.7**

WP-8D	05/03/06	05/01/07
OCDD	**4.04 JJ**	**9.83 AJJ**

RP-61B	11/17/99	07/12/00
Dioxins/Furans	ND	ND

RP-41B	11/04/04	04/01/05
Dioxins/Furans	NS	NS

RGPZ-13C	11/05/04	04/13/05
1234678-HpCDD	NS	**3.77 JJ**
OCDD	NS	**32.9 JJ**

RGPZ-12C	01/20/05	03/23/05
1234678-HpCDD	**23.7 JJ**	ND(1.18) AJ
Hepta-CDDs (total)	37.6	NS
OCDD	**67**	**6.53 JJ**

RGPZ-12D	05/03/07	04/18/08
1234678-HpCDD	**28.8 A/**	**14.9 AJJ**
1234678-HpCDF	**19.5 A/**	**5.07 AJJ**
1234789-HpCDF	**3.99 A/**	**1.97 AJJ**
123678-HxCDD	**3.45 A/**	**1.14 AJJ**
123678-HxCDF	**4.82 A/**	**1.14 AJJ**
123789-HxCDD	**2.45 A/**	ND(2.2) AJ
123789-HxCDF	**1.42 A/**	ND(0.50) AJ
12378-PeCDF	**3.08 A/**	**1.49 AJJ**
23478-HxCDF	**1.28 A/**	**0.748 AJJ**
23478-PeCDF	**2.51 A/**	**1.53 AJJ**
2378-TCDF	ND(1.36) A/J	**0.966 AJJ**
Hepta-CDD (total)	46.8 A/	24.5 AJJ
Hepta-CDFs (total)	37.1 A/	12.8 AJ
Hexa-CDD (total)	9.85 A/J	ND(2.11) AJ
Hexa-CDF (total)	58.1 A/D,M	14.4 A/D,J,M
PeCDD (total)	2.41 A/J	ND(0.51) AJ
OCDD	**34.8 A/J**	**19.9 AJJ**
PeCDF (total)	82.6 A/D,M	14.3 A/D,J,M
TCDD (total)	ND(1.29) A/J	1.13 AJ
TCDF (total)	78.9 A/D,M	21 A/D,M

WP-7D	05/01/07	04/17/08
OCDD	**6.08 AJJ**	**4.85 AJJ**

RP-62D	04/25/07	04/17/08
OCDD	**9.91 AJJ**	ND(2.43) AJ

RP-109D	10/13/04	04/08/05
Dioxins/Furans	NS	NS

RP-62B-1	04/25/07	04/17/08
OCDD	**4.8 AJJ**	ND(3.95) AJJ

RP-99D	07/12/00
Dioxins/Furans	ND

RP-63C	04/25/07	04/17/08
Dioxins/Furans	ND	ND

RGPZ-6C	11/02/04	04/14/05
OCDD	ND(12.1)	**6.44 JJ**

RP-96C-2	11/17/99	07/18/00
OCDD	ND(4.2) AJ	**71.5**

RGPZ-6D	01/20/05	04/06/05
1234678-HpCDD	**718**	**3990**
1234678-HpCDF	**1090 /DM**	**1170**
1234789-HpCDF	**1240**	**516**
123478-HxCDD	ND(6.27)	**8.15 JJ**
123478-HxCDF	**4260**	**1870**
123678-HxCDD	**73.7**	**308**
123678-HxCDF	**376**	**249**
123789-HxCDD	ND(5.88)	**26.2**
123789-HxCDF	**384**	**166**
12378-PeCDF	**1280**	**486**
23478-HxCDF	**216**	**139**
23478-PeCDF	**1490**	**484**
2378-TCDF	**1100 /F**	**358 /F**
Hepta-CDD (total)	10700	NS
Hepta-CDFs (total)	3680 /DM	NS
Hexa-CDD (total)	172	NS
Hexa-CDF (total)	6670 /DM	NS
OCDD	**11800**	**93000**
OCDF	**9160**	**4940**
PeCDF (total)	7100 /DM	NS
TCDF (total)	6360 /DM	NS

RP-98C	11/22/99	07/19/00
1234678-HpCDD	**7.4**	ND(3.26) AJ
123789-HxCDF	**12**	ND(3.26) AJ
OCDD	**49**	ND(11.5) AJ

A2B	07/06/00
OCDF	**7.37**

RP-101C	12/02/99	06/28/00
1234678-HpCDF	**100**	ND(0.60) AJ
123478-HxCDF	**22**	ND(0.87) AJ
Hepta-CDFs (total)	100	ND(0.73) AJ
Hexa-CDF (total)	37	ND(1.04) AJ
OCDF	**160**	ND(4.55) AJ

RP-107D	11/18/99	06/30/00
Dioxins/Furans	ND	ND

RP-72D	10/21/04	03/31/05
Dioxins/Furans	NS	NS

RP-4D	10/13/04	04/01/05
Dioxins/Furans	NS	NS

B3B	07/06/00
Dioxins/Furans	ND

RG-1C	04/30/99	07/19/00
OCDD	**34**	ND(5.85) AJ

RGPZ-8D	11/05/04	04/15/05
Dioxins/Furans	NR	NR

RP-75C	10/19/04	03/31/05
Dioxins/Furans	NS	NS

LEGEND

- Burial Trench
- Landfill Boundaries
- Facility and Zone 1 Boundary
- Perimeter Source Control Trench (PSCT)
- Plume Capture Collection Trench (PCT)
- Clay Barrier
- Creek
- Pond Outline
- RP-63B — Lower HSU Vibrating Wire Transducer
- CT-1C — Lower HSU Piezometer
- RP-63C — Lower HSU Monitoring Well
- MET — Meteorological Station

B-30	10/17/96
1,2-DCB	580 J/B

Well Number
Date (Month/Day/Year)
Groundwater Concentrations in Micrograms Per Liter
Validation Qualifier/Laboratory Qualifier
Chemical

The two most recent sampling events are posted.

List of chemical abbreviations and data qualifiers provided in text.

No results posted indicates no chemicals reported above detection limits.

Laboratory and Validation Qualifiers:

- "D" The sample or sample extract was diluted prior to analysis due to high levels of target analytes or matrix interferences.
- "B" The analyte was detected in an associated blank sample.
- "J" The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. For the inorganic methods, a "+" or "-" may be added to indicate high or low bias.
- "N" The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
- "NJ" The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value represents an approximate concentration.
- "U" Compound was analyzed, but not detected above the listed sample quantitation limit.
- "UJ" The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is an estimate.
- "R" The result is rejected due to a serious deficiency in the analysis or associated quality control analysis.
- "*" Indicates that the qualifier was applied in response to a Level IV review finding.

The widths of the clay barriers, PSCT, and PCT trenches are exaggerated for presentation purposes.

Bold values indicate exceedences of MCL/PRGs.

ND Not detected, but sampled and analyzed
NR Not sampled/analyzed due to lack of water recovered from sampling location.
NS Not sampled

NOTES:

Topo map revised 1998, 2000, 2004. Topo with P/S landfill and borrow area revised 2000. (Foster-Wheeler).

Zone 1 boundary (green) is approximate and includes the area within the facility boundary.

4088097619.DWG, 4D.0

NO.	DATE	REVISIONS	BY	CHK

DRAWN: PCB	PROJECT NO: 4088097619		
ENGINEER:	SCALE: 1"= 400'		
CHECKED: NAM	APPROVED: WJF		
DATE: 1/2011	DATE: 1/2011		

Final Remedial Investigation Report

Casmalia Resources Superfund Site
Casmalia, California

Dioxins/Furans in the Lower HSU Remedial Investigation Sampling

FIGURE **G-19**
SHEET: **1** OF **1**
REVISION NUMBER: 0
DATE: January 2011