Data Sources:
ESRI 2010 Bing Maps

Legend:

Nevada Environmental Response Trust Property Boundary

Notes:

1. Contours represent topographic surface in feet above mean sea level. Contour interval = 1 foot. Major contour interval = 5 feet. Contours provided by Las Vegas Paving.

2. Source of pre-remediation topographic information shown is from an aerial survey performed by PBS&J on behalf of Basic Remediation Company (BRC) on January 17, 2008, supplemented with survey data obtained from LVP prior to initiating remediation activities.

N
W E
S
0 180 360
Feet

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Site Topographic Map – Original Grade

Nevada Environmental Response Trust Site, Henderson, Nevada

Plate 1

Drafter: RS | Date: 1/20/12 | Contract Number: 21-28200 | Approved by: DR | Revised:

Path: H:\LePetomane\NERT\Soil Excavation\GIS\Maps\Other Figures\RetentionPond\WorkingFolder\Plate1_SiteTopo-OriginalGrade_FINAL.mxd

Data Sources:
ESRI 2010 Bing Maps

Legend:

Nevada Environmental Response Trust Property Boundary

Notes: Contours represent topographic surface in feet above mean sea level. Contour interval = 1 foot. Major contour interval = 5 feet. Contours provided by Las Vegas Paving.

N
W E
S
0 180 360
Feet

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Site Topographic Map – Post-Remediation

Nevada Environmental Response Trust Site, Henderson, Nevada

Plate **2**

Drafter: RS | Date: 1/20/12 | Contract Number: 21-28200 | Approved by: DR | Revised:

Path: H:\LePetomane\NERT\Soil Excavation\GIS\Maps\Other Figures\RetentionPond\WorkingFolder\Plate2_SiteTopo-PostRemed_FINAL.mxd

Data Sources:
ESRI 2010 Bing Maps

Legend:

Nevada Environmental Response Trust Property Boundary

Notes: Contours represent topographic surface in feet above mean sea level. Contour interval = 1 foot. Major contour interval = 5 feet. Contours provided by Las Vegas Paving.

N
W E
S
0 180 360
Feet

Path: H:\LaPetomane\NERT\Soil Excavation\GIS\Maps\Other Figures\RetentionPond\Working Folder\Plate3_Site topo-FinalGrade_FINAL.mxd

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Site Topographic Map – Final Grade

Nevada Environmental Response Trust Site, Henderson, Nevada

Plate **3**

Drafter: RS	Date: 1/20/12	Contract Number: 21-28200	Approved by: DR	Revised:

SSAQ6-02		
Depth (ft bgs)	0.3'	0.3' (Dup)
Dioxin TEQ	1,500	1,300
Arsenic	**11**	**12**
Magnesium	18,000	18,000
Benzo(a)pyrene	**0.27 J**	**0.55**
Benzo(a)pyrene TEQ	**0.599**	**1.011**
Hexachlorobenzene	0.63	0.69
Other PAHs below BCL		

EE-B21-1	
Depth (ft bgs)	Surface
Perchlorate	3.64
Arsenic	3.9
Hexachlorobenzene	<0.36

Target Remediation Concentrations:
NDEP Worker Background Comparison Levels, Background and Risk-Based Cleanup Goals

Dioxin	Dioxin TEQ (Calculated)	2,700	ppt
Perchlorate	Perchlorate	795	mg/kg
Hexachlorobenzene	Hexachlorobenzene	1.2	mg/kg
Metals	Arsenic	7.2	mg/kg
Metals	Lead	800	mg/kg
Metals	Magnesium	100,000	mg/kg
Metals	Manganese	100,000	mg/kg
VOCs	1,2-Dichlorobenzene	373,000	ug/kg
VOCs	1,4-Dichlorobenzene	14,300	ug/kg
VOCs	Hexachlorobutadiene	24,600	ug/kg
VOCs	Tetrachloroethylene (PCE)	3,280	ug/kg
PAHs	Benzo(a)pyrene	0.234	mg/kg
PAHs	Benzo(a)pyrene (TEQ)	0.234	mg/kg
PAHs	Beta BHC (Beta Hexachlorocyclohexane)	1.4	mg/kg
PAHs	Dibenz(a,h)anthracene	0.234	mg/kg
OCPs	Alpha BHC (Alpha Hexachlorocyclohexane)	0.399	mg/kg
OCPs	Heptachlor	0.426	mg/kg
OCPs	P,P'-DDE	8	mg/kg

mg/kg= milligram per kilogram
ug/kg= microgram per kilogram
ppt= parts per trillion

Qualifiers:
J Estimated value. It is not possible to assess the direction of the potential bias.
J+ Estimated value with a positive bias.
J- Estimated value with a negative bias.

Notes:
1. Excavation depths are listed in feet below ground surface at time of sampling.
2. Results in databoxes are shown in units listed in above table.
3. Bolded results exceed the NDEP Basic Comparison Level (BCL) or site-specific action level (arsenic, Dioxin TEQ, benzo[a]pyrene TEQ). For comparative purposes, results for those analytes that comprise the majority of BCL exceedances at the site (i.e., Dioxin TEQ, perchlorate, arsenic, magnesium, lead, hexachlorobenzene, benzo(a)pyrene, and benzo(a)pyrene TEQ) but were detected at concentrations less than their respective BCL/ action level have also been included, but are not bolded.

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Soil Sample Locations and Analytical Results Summary — RZ-B
Nevada Environmental Response Trust Site, Henderson, Nevada

Plate **4a**

Drafter: BR/EA/RS | Date: 1/20/12 | Contract Number: 21-28200 | Approved by: DR | Revised:

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CS-E11-3	
Depth (ft bgs)	Surface
Dioxin TEQ	130
Perchlorate	723
Hexachlorobenzene	0.06
OCPs below BCL	

CS-E11-2	
Depth (ft bgs)	Surface
Dioxin TEQ	17
Perchlorate	130
Arsenic	1.6
Lead	8.7
Hexachlorobenzene	0.24
OCPs below BCL	

CS-E14C-1	
Depth (ft bgs)	Surface
Dioxin TEQ	2
Perchlorate	38.7 J
Arsenic	4.5
Benzo(a)pyrene TEQ	0.006
Hexachlorobenzene	0.055
Other PAHs, VOCs below BCL	

CS-E11-1	
Depth (ft bgs)	Surface
Dioxin TEQ	**51,000**
Perchlorate	**1,190**
Arsenic	6.9
Lead	14.1
Hexachlorobenzene	**84**
Aldrin	**880 UJ**
Alpha BHC	**450 J-**
Beta BHC	**1,900**
Heptachlor	**2,100**
Other OCPs below BCL	

EE-E14C-1	
Depth (ft bgs)	Surface
Dioxin TEQ	0.32
Perchlorate	46.3 J
Arsenic	4.2
Benzo(a)pyrene TEQ	0.001
Hexachlorobenzene	0.031
Other PAHs, OCPs below BCL	

DS-E16-1	
Depth (ft bgs)	Surface
Dioxin TEQ	2,500
Perchlorate	36.2
Arsenic	**400**
Lead	**3,200**
Magnesium	6,100
Benzo(a)pyrene TEQ	0.039
Hexachlorobenzene	**5.1**
Other PAHs below BCL	

EE-E09-1	
Depth (ft bgs)	Surface
Dioxin TEQ	630
Perchlorate	448
Arsenic	6.7
Lead	160
Hexachlorobenzene	0.36
OCPs below BCL	

EE-E08A-1/EE-E08A-2		
Depth (ft bgs)	Surface	Surface (Dup)
Dioxin TEQ	**20,000**	**19,000**
Perchlorate	**2,050 J**	**818 J**
Arsenic	**47.8**	**49.0**
Lead	86.9	94.7
Heptachlor	< 1.8	**0.93 J**
Hexachlorobenzene	**39**	**40**
Other OCPs below BCL		

CS-E08B-1	
Depth (ft bgs)	Surface
Dioxin TEQ	58
Perchlorate	**1,480**
Arsenic	2.6
Lead	7.9
Hexachlorobenzene	0.14
OCPs below BCL	

CS-E08A-1	
Depth (ft bgs)	Surface
Dioxin TEQ	6.6
Perchlorate	197
Arsenic	3.7
Lead	7.4
Hexachlorobenzene	0.057
OCPs below BCL	

CS-E16-1	
Depth (ft bgs)	Surface
Arsenic	3.6
Lead	8.3
Hexachlorobenzene	<0.33

CS-E14C-2	
Depth (ft bgs)	Surface
Arsenic	5.6
Lead	75 J+
Hexachlorobenzene	0.0057 J

DS-E14C-1	
Depth (ft bgs)	Surface
Arsenic	5.3
Lead	50 J+
Hexachlorobenzene	<0.34

DS-E14C-2	
Depth (ft bgs)	Surface
Dioxin TEQ	400

EE-E14-1	
Depth (ft bgs)	Surface
Dioxin TEQ	**3,000**
Perchlorate	3.38 J
Arsenic	**16**
Hexachlorobenzene	**47**

CS-E14B-1	
Depth (ft bgs)	Surface
Dioxin TEQ	2.6
Perchlorate	4.39 J
Arsenic	5.7
Hexachlorobenzene	<0.35

EE-E14B-1/EE-E14B-2		
Depth (ft bgs)	Surface	Surface (Dup)
Dioxin TEQ	**49,000**	**3,100**
Perchlorate	141 J	59.7 J
Arsenic	**11**	**13**
Hexachlorobenzene	**33 J**	**11 J-**

CS-C30-1	
Depth (ft bgs)	Surface
Dioxin TEQ	**4,100**
Perchlorate	**4,720**

CS-C42-1	
Depth (ft bgs)	Surface
Dioxin TEQ	1,500
Perchlorate	31.4
Arsenic	2.1 J-
Hexachlorobenzene	**2.5**

CS-C42-2	
Depth (ft bgs)	Surface
Hexachlorobenzene	<0.0018

CS-E14A-2	
Depth (ft bgs)	Surface
Dioxin TEQ	16
Arsenic	4.4 J-
Magnesium	10,900 J-
Hexachlorobenzene	<0.35
VOCs below BCL	

EE-E14A-1	
Depth (ft bgs)	Surface
Dioxin TEQ	**5,700**
Arsenic	2.1 J-
Magnesium	10,100 J-
Hexachlorobenzene	0.42
Other PAHs, VOCs below BCL	

CS-E14A-1	
Depth (ft bgs)	Surface
Dioxin TEQ	**3,700**
Arsenic	3.2 J-
Magnesium	13,000 J-
Hexachlorobenzene	**3.4**
VOCs below BCL	

CS-E14A-3	
Depth (ft bgs)	Surface
Dioxin TEQ	2.4
Hexachlorobenzene	0.058 J

CS-C44-1	
Depth (ft bgs)	Surface
Dioxin TEQ	1
Arsenic	3.6 J-
Hexachlorobenzene	0.15 J

DS-C39B-1	
Depth (ft bgs)	0.5'
Dioxin TEQ	1,700
Arsenic	5.5
Lead	14
Magnesium	71,000
Hexachlorobenzene	0.17
OCPs below BCL	

DS-E14A-1	
Depth (ft bgs)	Surface
Dioxin TEQ	**1,200,000**
Arsenic	**120 J-**
Lead	284
Magnesium	31,500
Alpha BHC	**1.2 J**
Benzo(a)pyrene TEQ	0.048
Hexachlorobenzene	**480**
Naphthalene	**3.1 J**
1,2-Dichlorobenzene	**3,200,000**
1,4-Dichlorobenzene	**1,000,000**
Hexachlorobutadiene	**82,000**
Tetrachloroethene	**17,000 J**
Other PAHs, VOCs and OCPs below BCL	

DS-E14A-2	
Depth (ft bgs)	Surface
Dioxin TEQ	**690,000**
Arsenic	**119 J-**
Lead	646
Magnesium	**160,000**
Benzo(a)pyrene TEQ	0.058
Hexachlorobenzene	**650**
1,4-Dichlorobenzene	**120,000**
Hexachlorobutadiene	**180,000**
Tetrachloroethene	**35,000**
Other PAHs, VOCs, OCPs below BCL	

DS-C45-1	
Depth (ft bgs)	Surface
Arsenic	2.4
Hexachlorobenzene	<0.0017

DS-C45-2/DS-C45-3		
Depth (ft bgs)	Surface	Surface (Dup)
Arsenic	**11.9**	**10.2**
Hexachlorobenzene	0.081	0.054

Target Remediation Concentrations:
NDEP Worker Background Comparison Levels, Background and Risk-Based Cleanup Goals

Dioxin	Dioxin TEQ (Calculated)	2,700	ppt
Perchlorate	Perchlorate	795	mg/kg
Hexachlorobenzene	Hexachlorobenzene	1.2	mg/kg
Metals	Arsenic	7.2	mg/kg
Metals	Lead	800	mg/kg
Metals	Magnesium	100,000	mg/kg
Metals	Manganese	100,000	mg/kg
VOCs	1,2-Dichlorobenzene	373,000	ug/kg
VOCs	1,4-Dichlorobenzene	14,300	ug/kg
VOCs	Hexachlorobutadiene	24,600	ug/kg
VOCs	Tetrachloroethylene (PCE)	3,280	ug/kg
PAHs	Benzo(a)pyrene	0.234	mg/kg
PAHs	Benzo(a)pyrene (TEQ)	0.234	mg/kg
PAHs	Beta BHC (Beta Hexachlorocyclohexane)	1.4	mg/kg
PAHs	Dibenz(a,h)anthracene	0.234	mg/kg
OCPs	Alpha BHC (Alpha Hexachlorocyclohexane)	0.399	mg/kg
OCPs	Heptachlor	0.426	mg/kg
OCPs	P,P'-DDE	8	mg/kg

mg/kg= milligram per kilogram
ug/kg= microgram per kilogram
ppt= parts per trillion

Qualifiers:
J Estimated value. It is not possible to assess the direction of the potential bias.
J+ Estimated value with a positive bias.
J- Estimated value with a negative bias.

Notes:
1. Excavation depths are listed in feet below ground surface at time of sampling.
2. Results in databoxes are shown in units listed in above table.
3. Bolded results exceed the NDEP Basic Comparison Level (BCL) or site-specific action level (arsenic, Dioxin TEQ, benzo(a)pyrene TEQ). For comparative purposes, results for those analytes that comprise the majority of BCL exceedances at the site (i.e., Dioxin TEQ, perchlorate, arsenic, magnesium, lead, hexachlorobenzene, benzo(a)pyrene, and benzo(a)pyrene TEQ) but were detected at concentrations less than their respective BCL/ action level have also been included, but are not bolded.

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Soil Sample Locations and Analytical Results Summary — RZ-C Northeast and RZ-E
Nevada Environmental Response Trust Site, Henderson, Nevada

Plate 4b

Drafter: BR/EA/RS | Date: 1/20/12 | Contract Number: 21-28200 | Approved by: DR | Revised:

Path: H:\Groups\NERT\Site Excavation\GIS\Maps\Other Figures\RZ-E\RZE_2012\RZE_D_FINAL.mxd

CS-C09A-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.8
Hexachlorobenzene	<0.35

EE-C09A-2/EE-C09A-3

Depth (ft bgs)	Surface	Surface (Dup)
Dioxin TEQ	530	200
Hexachlorobenzene	0.33	0.44

DS-C09A-1

Depth (ft bgs)	Surface
Dioxin TEQ	1,200
Arsenic	**8.2 J-**
Lead	69.7
Magnesium	38,600 J
Hexachlorobenzene	0.21

CS-C08-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.72
Arsenic	1.5 J
Hexachlorobenzene	<0.34

DS-C08-1

Depth (ft bgs)	Surface
Dioxin TEQ	**5,200**
Arsenic	3.0 J-
Lead	9.6
Magnesium	10,600 J
Hexachlorobenzene	**4.6**

CS-C07A-1

Depth (ft bgs)	Surface
Dioxin TEQ	1.6
Arsenic	1.4 J
Hexachlorobenzene	<0.34

CS-C08-2

Depth (ft bgs)	Surface
Dioxin TEQ	46
Arsenic	3.6 J-
Hexachlorobenzene	0.01

CS-C07B-2

Depth (ft bgs)	Surface
Dioxin TEQ	8.1
Arsenic	2.8 J-
Magnesium	7,730
Hexachlorobenzene	0.015

CS-C07B-1

Depth (ft bgs)	Surface
Dioxin TEQ	5.4
Arsenic	2.8 J-
Magnesium	6,830
Hexachlorobenzene	0.015

CS-C05A-1

Depth (ft bgs)	Surface
Dioxin TEQ	3.1
Magnesium	9,060
Hexachlorobenzene	0.00048 J

SSAO3-06

Depth (ft bgs)	3'
Arsenic	**16**
Manganese	12,000

EE-C01-1

Depth (ft bgs)	Surface
Arsenic	4.1 J-

CS-C01-2

Depth (ft bgs)	Surface
Arsenic	2.7 J-
Magnesium	8,190

CS-C01-1

Depth (ft bgs)	Surface
Arsenic	2.3 J-
Magnesium	7,440

CS-C10A-1

Depth (ft bgs)	Surface
Dioxin TEQ	27
Perchlorate	134
Arsenic	2.4
Magnesium	11,000
Hexachlorobenzene	<0.35

DS-C10A-1

Depth (ft bgs)	Surface
Dioxin TEQ	**9,900**
Perchlorate	**4,030**
Arsenic	**11.9 J-**
Lead	11.7
Magnesium	**102,000 J**
Hexachlorobenzene	**8.7**

SSAO5-08

Depth (ft bgs)	3'
Dioxin TEQ	13
Perchlorate	0.80
Arsenic	3.5
Magnesium	10,000
Benzo(a)pyrene TEQ	**0.384**
Hexachlorobenzene	<0.33
Other PAHs below BCL	

CS-C10B-1

Depth (ft bgs)	Surface
Dioxin TEQ	250
Perchlorate	98.2
Arsenic	7.1
Lead	13
Magnesium	18,000 J
Benzo(a)pyrene TEQ	0.026
Hexachlorobenzene	0.17 J
Other PAHs, VOCs and OCPs below BCL	

DS-C10-1

Depth (ft bgs)	Surface
Dioxin TEQ	1,000
Perchlorate	**4.18**
Arsenic	3.1 J-
Lead	5.8
Magnesium	**134,000 J**
Hexachlorobenzene	**1.3**

DS-C18-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.58
Perchlorate	3.8
Arsenic	1.8
Magnesium	7,480
Hexachlorobenzene	<0.35

DS-C17-1

Depth (ft bgs)	Surface
Dioxin TEQ	**3,700**
Perchlorate	219
Arsenic	6.4
Magnesium	63,400
Hexachlorobenzene	**2.8**

SSAO5-09

Depth (ft bgs)	Surface	Surface (Dup)
Dioxin TEQ	1,800	2,200
Arsenic	**11 J**	5.2 J
Magnesium	**170,000**	**170,000**
Benzo(a)pyrene TEQ	**0.399**	**0.427**
Hexachlorobenzene	**1.8**	**1.9**
Other PAHs below BCL		

EE-C18-1

Depth (ft bgs)	Surface
Dioxin TEQ	**4,000**
Arsenic	2.2
Magnesium	21,800
Benzo(a)pyrene	**1.3**
Benzo(a)pyrene TEQ	**1.908**
Hexachlorobenzene	< 18
Dibenz(a,h)anthracene	**0.3 J**
Other PAHs below BCL	

SSAO6-06

Depth (ft bgs)	1'
Dioxin TEQ	1,900
Arsenic	**7.5**
Magnesium	28,000
Manganese	500
Benzo(a)pyrene TEQ	**0.43**
Hexachlorobenzene	**2.5**
Other PAHs below BCL	

EE-C21-1/EE-C21-2

Depth (ft bgs)	Surface	Surface (Dup)
Perchlorate	**840**	**896**
Arsenic	**463**	**190**
Benzo(a)pyrene TEQ	**0.6**	**0.57**
Other PAHs below BCL		

DS-C18-2

Depth (ft bgs)	Surface
Dioxin TEQ	0.8
Perchlorate	59
Arsenic	2.5
Magnesium	9,690
Hexachlorobenzene	<0.37

EE-C20-1

Depth (ft bgs)	Surface
Perchlorate	**7,670**
Arsenic	**1,000**
Lead	**2,420**

CS-C22A-1

Depth (ft bgs)	Surface
Perchlorate	0.364
Arsenic	3.2
Lead	8.3

CS-C27-1

Depth (ft bgs)	Surface
Perchlorate	83.4
Arsenic	**11.2**
Lead	125

CS-C27-2

Depth (ft bgs)	Surface
Perchlorate	55.6
Arsenic	2.7
Lead	13.7

EE-C27-1

Depth (ft bgs)	Surface
Perchlorate	56.7
Arsenic	**642**
Lead	**1,530**

CS-C23-1

Depth (ft bgs)	Surface
Perchlorate	194
Arsenic	2.4
Lead	8.1

DS-C23-1

Depth (ft bgs)	Surface
Dioxin TEQ	27
Perchlorate	11
Arsenic	**707 J-**
Lead	**5,280**
Magnesium	3,340 J
Manganese	**204,000 J**
Benzo(a)pyrene TEQ	0.18
Other PAHs below BCL	

CS-C27-3

Depth (ft bgs)	Surface
Perchlorate	13.7
Arsenic	4.6
Lead	7.4

EE-C27-2/EE-C27-4

Depth (ft bgs)	Surface	Surface (Dup)
Perchlorate	30.8	27.4
Arsenic	**1,510**	**1,600**
Lead	654	679

DS-C11-1

Depth (ft bgs)	Surface
Dioxin TEQ	620
Arsenic	3.2 J-
Lead	8.0
Magnesium	21,400 J
Hexachlorobenzene	**1.8**

CS-C11-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.076
Hexachlorobenzene	0.0045

CS-C06-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.01
Magnesium	9,200 J
Hexachlorobenzene	<0.0018

CS-C15-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.13
Perchlorate	7.21
Arsenic	6.9
Magnesium	9,300
Benzo(a)pyrene TEQ	0.005
Hexachlorobenzene	0.0043
Other PAHs below BCL	

EE-C13-1

Depth (ft bgs)	Surface
Arsenic	3.5
Benzo(a)pyrene TEQ	0.009
Hexachlorobenzene	**2.5**
Other PAHs below BCL	

EE-C15-2

Depth (ft bgs)	Surface
Arsenic	**7.4**
Benzo(a)pyrene TEQ	0.006
Other PAHs below BCL	

EE-C15-1

Depth (ft bgs)	Surface
Arsenic	3.0
Benzo(a)pyrene TEQ	0.006
Hexachlorobenzene	<0.0016
Other PAHs below BCL	

EE-C24-2

Depth (ft bgs)	Surface
Arsenic	**160**
Benzo(a)pyrene TEQ	**0.72**
Hexachlorobenzene	0.32 J
Other PAHs below BCL	

CS-C25-1

Depth (ft bgs)	Surface
Arsenic	3.4
Benzo(a)pyrene TEQ	0.005
Hexachlorobenzene	<0.31
Other PAHs below BCL	

EE-C25-1

Depth (ft bgs)	Surface
Arsenic	**33.5**
Benzo(a)pyrene TEQ	**0.527**
Hexachlorobenzene	< 38
Other PAHs below BCL	

EE-C24-1

Depth (ft bgs)	Surface
Arsenic	**210**
Benzo(a)pyrene TEQ	**0.5**
Hexachlorobenzene	0.14
Other PAHs below BCL	

CS-C26-1

Depth (ft bgs)	Surface
Arsenic	4.0
Benzo(a)pyrene TEQ	0.006
Other PAHs below BCL	

DS-C24-1/DS-C24-2

Depth (ft bgs)	Surface	Surface (Dup)
Arsenic	1.3	--
Benzo(a)pyrene	0.46 J	0.87 J
Benzo(a)pyrene TEQ	**0.735**	**1.414**
Hexachlorobenzene	< 1.7	<0.34
Other PAHs below BCL		

DS-C25-1

Depth (ft bgs)	Surface
Dioxin TEQ	110
Arsenic	**16.4 J-**
Lead	57.7
Magnesium	40,100 J
Benzo(a)pyrene TEQ	0.218
Hexachlorobenzene	0.022
Other PAHs below BCL	

DS-C19-1

Depth (ft bgs)	Surface
Dioxin TEQ	800
Arsenic	**45.7 J-**
Lead	516
Magnesium	53,900 J
Benzo(a)pyrene TEQ	0.221
Hexachlorobenzene	0.150
Other PAHs below BCL	

EE-C23-1

Depth (ft bgs)	Surface
Perchlorate	**878**
Arsenic	**586**
Lead	**3,620**

EE-C27-3

Depth (ft bgs)	Surface
Perchlorate	1.79
Arsenic	3.1
Lead	8.3

Target Remediation Concentrations:
NDEP Worker Background Comparison Levels, Background and Risk-Based Cleanup Goals

Dioxin	Dioxin TEQ (Calculated)	2,700	ppt
Perchlorate	Perchlorate	795	mg/kg
Hexachlorobenzene	Hexachlorobenzene	1.2	mg/kg
Metals	Arsenic	7.2	mg/kg
Metals	Lead	800	mg/kg
Metals	Magnesium	100,000	mg/kg
Metals	Manganese	100,000	mg/kg
VOCs	1,2-Dichlorobenzene	373,000	ug/kg
VOCs	1,4-Dichlorobenzene	14,300	ug/kg
VOCs	Hexachlorobutadiene	24,600	ug/kg
VOCs	Tetrachloroethylene (PCE)	3,280	ug/kg
PAHs	Benzo(a)pyrene	0.234	mg/kg
PAHs	Benzo(a)pyrene (TEQ)	0.234	mg/kg
PAHs	Beta BHC (Beta Hexachlorocyclohexane)	1.4	mg/kg
PAHs	Dibenz(a,h)anthracene	0.234	mg/kg
OCPs	Alpha BHC (Alpha Hexachlorocyclohexane)	0.399	mg/kg
OCPs	Heptachlor	0.426	mg/kg
OCPs	P,P'-DDE	8	mg/kg

mg/kg= milligram per kilogram
ug/kg= microgram per kilogram
ppt= parts per trillion
- = sample not analyzed for listed analyte

Qualifiers:
J Estimated value. It is not possible to assess the direction of the potential bias.
J+ Estimated value with a positive bias.
J- Estimated value with a negative bias.

Notes:
1. Excavation depths are listed in feet below ground surface at time of sampling.
2. Results in databoxes are shown in units listed in above table.
3. Bolded results exceed the NDEP Basic Comparison Level (BCL) or site-specific action level (arsenic, Dioxin TEQ, benzo[a]pyrene TEQ). For comparative purposes, results for those analytes that comprise the majority of BCL exceedances at the site (i.e., Dioxin TEQ, perchlorate, arsenic, magnesium, lead, hexachlorobenzene, benzo(a)pyrene, and benzo(a)pyrene TEQ) but were detected at concentrations less than their respective BCL/action level have also been included, but are not bolded.

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ENVIRON
6001 Shellmound St., Suite 700, Emeryville, CA 94608

Soil Sample Locations and Analytical Results Summary — RZ-C Southwest
Nevada Environmental Response Trust Site, Henderson, Nevada

Plate
4c

Drafter: BR/EA/RS | Date: 1/20/12 | Contract Number: 21-28200 | Approved by: DR | Revised:

SSAI3-08

Depth (ft bgs)	10'
Dioxin TEQ	1,100
Benzo(a)pyrene TEQ	**0.523**
Hexachlorobenzene	<0.45
Other PAHs below BCL	

CS-DB-1/CS-DB-3

Depth (ft bgs)	Surface	Surface (Dup)
Dioxin TEQ	1.5	8.9
Magnesium	12,100	10,800
Hexachlorobenzene	<0.36	<0.36

EE-DB-1

Depth (ft bgs)	Surface
Dioxin TEQ	1,100
Magnesium	**162,000**
Hexachlorobenzene	0.13 J

EE-D02-1

Depth (ft bgs)	Surface
Dioxin TEQ	**3,200**
Perchlorate	222
Arsenic	**39.2**
Hexachlorobenzene	**2.7**

SSAJ3-10

Depth (ft bgs)	Surface
Dioxin TEQ	20
Benzo(a)pyrene TEQ	**0.43**
Hexachlorobenzene	0.037 J
Other PAHs below BCL	

CS-D02-1

Depth (ft bgs)	Surface
Dioxin TEQ	150
Perchlorate	179
Arsenic	3.9
Hexachlorobenzene	0.16 J

CS-DA-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.81
Magnesium	11,400
Hexachlorobenzene	<0.36

DS-DB-1/DS-DB-2

Depth (ft bgs)	Surface	Surface (Dup)
Dioxin TEQ	**6,000**	940
Perchlorate	1,320	1,370
Arsenic	6.0 J-	5.3 J-
Lead	9.3	10.1
Magnesium	**189,000**	**173,000**
Benzo(a)pyrene TEQ	0.007	0.005
Hexachlorobenzene	0.12	0.011 J+
Other PAHs below BCL		

DS-D06A-1

Depth (ft bgs)	Surface
Dioxin TEQ	37
Perchlorate	0.966
Arsenic	**11.5**
Lead	2.0
Magnesium	8,510
Manganese	66.4
Benzo(a)pyrene TEQ	0.006
Hexachlorobenzene	<0.4
Other PAHs below BCL	

EE-DB-2

Depth (ft bgs)	Surface
Dioxin TEQ	1,500
Magnesium	**162,000**
Hexachlorobenzene	0.28 J

EE-D10-1

Depth (ft bgs)	Surface
Dioxin TEQ	570
Magnesium	**169,000**
Hexachlorobenzene	<0.45

CS-DB-2

Depth (ft bgs)	Surface
Dioxin TEQ	590
Magnesium	10,200
Hexachlorobenzene	<0.35

DS-D06A-2

Depth (ft bgs)	Surface
Dioxin TEQ	0.3
Perchlorate	7.38
Arsenic	**8.2**
Lead	5.7
Magnesium	21,800
Manganese	118
Benzo(a)pyrene TEQ	0.0005
Hexachlorobenzene	<0.4
Other PAHs below BCL	

CS-D17B-1

Depth (ft bgs)	Surface
Dioxin TEQ	1,400
Hexachlorobenzene	**2**

CS-D10B-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.62
Magnesium	10,300
Hexachlorobenzene	<0.35

CS-D17B-2

Depth (ft bgs)	2 - 2.2'
Hexachlorobenzene	0.00049 J

SSAJ2-07

Depth (ft bgs)	2'
Dioxin TEQ	1.3
Perchlorate	8.8
Arsenic	3.1
Benzo(a)pyrene TEQ	**0.407**
Hexachlorobenzene	<0.35
Other PAHs below BCL	

CS-D10-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.94
Magnesium	25,100
Hexachlorobenzene	<0.36

CS-D10A-1

Depth (ft bgs)	Surface
Dioxin TEQ	0.21
Magnesium	8,100
Hexachlorobenzene	<0.35

SSAK2-02

Depth (ft bgs)	Surface
Dioxin TEQ	0.31
Perchlorate	5.6
Arsenic	3.1
Benzo(a)pyrene TEQ	**0.407**
Hexachlorobenzene	<0.35
Other PAHs below BCL	

DS-DC-1

Depth (ft bgs)	Surface
Dioxin TEQ	1,700
Perchlorate	25.3
Arsenic	1.7 J-
Lead	5.9
Magnesium	**95,200**
Benzo(a)pyrene TEQ	0.009
Hexachlorobenzene	**1.4**
Other PAHs below BCL	

CS-D08-1

Depth (ft bgs)	Surface
Dioxin TEQ	160
Magnesium	8,740
Hexachlorobenzene	0.13 J

CS-DC-1

Depth (ft bgs)	Surface
Dioxin TEQ	780
Perchlorate	4.06
Arsenic	2.6
Lead	10.9
Magnesium	9,130
Benzo(a)pyrene TEQ	0.014
Other PAHs below BCL	

CS-DC-4

Depth (ft bgs)	Surface
Dioxin TEQ	2.1

CS-DC-2

Depth (ft bgs)	Surface
Dioxin TEQ	1,100
Perchlorate	0.519
Arsenic	4.6
Lead	26.6
Magnesium	15,200
Benzo(a)pyrene TEQ	0.066
Hexachlorobenzene	1
Other PAHs below BCL	

CS-DC-3

Depth (ft bgs)	Surface
Dioxin TEQ	**4,500**
Perchlorate	1.36
Arsenic	4.0
Lead	13.0
Magnesium	16,700
Benzo(a)pyrene TEQ	0.011
Other PAHs below BCL	

DS-D11B-1

Depth (ft bgs)	Surface
Dioxin TEQ	720
Hexachlorobenzene	0.99

DS-D14-1

Depth (ft bgs)	Surface
Dioxin TEQ	**9,000**
Hexachlorobenzene	**4**
P,P'-DDE	**10**
Other OCPs below BCL	

DS-D27-1

Depth (ft bgs)	0.3'
Dioxin TEQ	1,100
Arsenic	5.7
Lead	43
Magnesium	37,000
Hexachlorobenzene	0.074 J+
OCPs below BCL	

DS-D27-2

Depth (ft bgs)	0.5'
Dioxin TEQ	1,800
Arsenic	4.4
Lead	20
Magnesium	26,000
Hexachlorobenzene	0.078 J+
OCPs below BCL	

DS-D23-1

Depth (ft bgs)	Surface
Dioxin TEQ	**1,900,000**
Arsenic	**67.0 J-**
Lead	212
Magnesium	**103,000**
Hexachlorobenzene	**520**

CS-D23-1

Depth (ft bgs)	Surface
Dioxin TEQ	6
Arsenic	3.4
Magnesium	13,000 J
Hexachlorobenzene	0.37

CS-D23-2

Depth (ft bgs)	Surface
Dioxin TEQ	11
Arsenic	3.6
Magnesium	9,400 J
Hexachlorobenzene	0.33

CS-D23-3

Depth (ft bgs)	Surface
Dioxin TEQ	110
Arsenic	2.7
Magnesium	8,700 J
Hexachlorobenzene	0.93

CS-D24-1

Depth (ft bgs)	Surface
Dioxin TEQ	**43,000**
Arsenic	**156 J**

CS-D24-2

Depth (ft bgs)	1.5 - 1.8'
Dioxin TEQ	**3,500**
Arsenic	**9.9**

CS-D23-4

Depth (ft bgs)	Surface
Dioxin TEQ	150
Arsenic	2.9
Magnesium	8,300 J
Hexachlorobenzene	0.66

CS-D24-3

Depth (ft bgs)	3 - 3.3'
Dioxin TEQ	3.1
Arsenic	4.9

CS-D25-1

Depth (ft bgs)	Surface
Dioxin TEQ	140
Arsenic	**7.9 J**

CS-D25A-1

Depth (ft bgs)	Surface
Dioxin TEQ	130
Arsenic	4.1

EE-D25-1

Depth (ft bgs)	Surface
Dioxin TEQ	**830,000**
Arsenic	**226 J**

EE-D25-2

Depth (ft bgs)	Surface
Dioxin TEQ	**4,900**
Arsenic	**29**
Magnesium	15,000

CS-D25-2

Depth (ft bgs)	Surface
Dioxin TEQ	200
Arsenic	2.6 J

CS-D25A-2

Depth (ft bgs)	Surface
Dioxin TEQ	**3,900**
Arsenic	**9.2**

CS-GWL-1

Depth (ft bgs)	Surface
Perchlorate	23

CS-GWL-2

Depth (ft bgs)	Surface
Perchlorate	20

CS-D25A-3

Depth (ft bgs)	Surface
Dioxin TEQ	150
Arsenic	1.8

EE-D25A-1

Depth (ft bgs)	Surface
Dioxin TEQ	760
Arsenic	**32.2 J-**

EE-D25A-2/EE-D25A-3

Depth (ft bgs)	Surface	Surface (Dup)
Dioxin TEQ	**30,000**	**23,000**
Arsenic	**68.6**	**78.9**

CS-D31A-1

Depth (ft bgs)	Surface
Dioxin TEQ	1.5
Perchlorate	27.7 J
Arsenic	**8.1**
Benzo(a)pyrene TEQ	0.006
Other PAHs, OCPs below BCL	

Target Remediation Concentrations:
NDEP Worker Background Comparison Levels, Background and Risk-Based Cleanup Goals

Dioxin	Dioxin TEQ (Calculated)	2,700	ppt
Perchlorate	Perchlorate	795	mg/kg
Hexachlorobenzene	Hexachlorobenzene	1.2	mg/kg
Metals	Arsenic	7.2	mg/kg
Metals	Lead	800	mg/kg
Metals	Magnesium	100,000	mg/kg
Metals	Manganese	100,000	mg/kg
VOCs	1,2-Dichlorobenzene	373,000	ug/kg
VOCs	1,4-Dichlorobenzene	14,300	ug/kg
VOCs	Hexachlorobutadiene	24,600	ug/kg
VOCs	Tetrachloroethylene (PCE)	3,280	ug/kg
PAHs	Benzo(a)pyrene	0.234	mg/kg
PAHs	Benzo(a)pyrene (TEQ)	0.234	mg/kg
PAHs	Beta BHC (Beta Hexachlorocyclohexane)	1.4	mg/kg
PAHs	Dibenz(a,h)anthracene	0.234	mg/kg
OCPs	Alpha BHC (Alpha Hexachlorocyclohexane)	0.399	mg/kg
OCPs	Heptachlor	0.426	mg/kg
OCPs	P,P'-DDE	8	mg/kg

mg/kg= milligram per kilogram
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J- Estimated value with a negative bias.

Notes:
1. Excavation depths are listed in feet below ground surface at time of sampling.
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3. Bolded results exceed the NDEP Basic Comparison Level (BCL) or site-specific action level (arsenic, Dioxin TEQ, benzo[a]pyrene TEQ). For comparative purposes, results for those analytes that comprise the majority of BCL exceedances at the site (i.e., Dioxin TEQ, perchlorate, arsenic, magnesium, lead, hexachlorobenzene, benzo(a)pyrene, and benzo(a)pyrene TEQ) but were detected at concentrations less than their respective BCL/ action level have also been included, but are not bolded.
4. Samples CS-D17B-3 and CS-D24-4 were not analyzed.

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ENVIRON
6001 Shellmound St., Suite 700, Emeryville, CA 94608

Soil Sample Locations and Analytical Results Summary — RZ-D
Nevada Environmental Response Trust Site, Henderson, Nevada

Plate **4d**

Drafter: BR/EA/RS | Date: 1/20/12 | Contract Number: 21-28200 | Approved by: DR | Revised: