

DISCLAIMER

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NEL LABORATORIES

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Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89031
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3281

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
ATTN: Ted Redding

PROJECT NAME: V853
PROJECT NUMBER: 17777

NEL ORDER ID: L0008027

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/2/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

/s/ Stan Van Wagenen

Stan Van Wagenen
Laboratory Manager

8/3/00
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V853
 PROJECT #: 17777

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
 METHOD: EPA 8015M
 ORDER ID: L0008027
 MATRIX: Solid

ANALYST: SLB - Las Vegas Division

<u>CLIENT SAMPLE ID</u>	<u>SAMPLE DATE</u>	<u>NEL SAMPLE ID</u>	<u>RESULT mg/kg</u>	<u>C.R.</u>	<u>Reporting Limit</u>	<u>Surrogate Recovery*</u>	<u>EXTRACTED</u>	<u>ANALYZED</u>
UCISV1	8/1/00	L0008027-01	170	D	20. mg/kg	91 %	8/2/00	8/3/00
UCISV2	8/1/00	L0008027-02	41	D	20. mg/kg	82 %	8/2/00	8/3/00
UCISV3	8/1/00	L0008027-03	62	D	20. mg/kg	91 %	8/2/00	8/3/00
UCISV4	8/1/00	L0008027-04	20	D	20. mg/kg	90 %	8/2/00	8/3/00
UCISV5	8/1/00	L0008027-05	24	D	20. mg/kg	86 %	8/2/00	8/3/00

C.R.: Carbon Range

D Diesel Range Organics (C10 to C28).

QUALITY CONTROL DATA (Total for Diesel Range):

<u>Sample ID</u>	<u>Result</u>	<u>Acceptable Range</u>	<u>Surrogate Recovery*</u>	<u>Sample Number</u>
Blank, 000802TP -BLK	ND	< 20 mg/kg	94 %	NA
LCS, 000802TPHS-LCS	68 %	54 - 91 %	100 %	NA
LCSD, 000802TPHS-LCSD	65 %	54 - 91 %	91 %	NA

* Surrogate used was Octacosane, acceptance limits 55-130%.

ND - Not Detected

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1000 8027 7/3 Cusivoy seal intact: **YN None** Tempo: 6s



**ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD**

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION																																																									
Project: CMTA 2000	BN Orig#: 2152	Send Report to: Dave Madson	Phone: 295-7211	Fax: 295-7761	M/S: NTS 306	Sampling Site: UC-1 Area 3	The samples submitted contain (check):																																																								
Charge No.: C86-014 AC	ASL Prog.:	Turnaround: 24 HOURS	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:		<input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.		SAMPLE RECEIPT INFORMATION Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:																																																								
Project Manager: Wayne Johnson	M/S: NTS 306	ANALYSES & METHOD () Standard - 30 days Non-rad, 60 Days Rad, Other: <input checked="" type="checkbox"/> Rush Preliminary by: 24 HOURS			Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:																																																										
Phone: 295-0573	Fax: 295-7761	LAB USE ONLY Non-Rad SGD: V853 Non-Rad Packet: V851-86 W1897 W1895gs			Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments:																																																										
Client Services Representative:			Will these analyses be performed under a signed SOW? () YES () NO If so, do analyses entered here agree with the SOW? () YES () NO () N/A If not, identify the variation. CSR Initials indicating review and approval: TPH Diesel Oil Date:			COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) Soil samples from UC-1 Area 3 on 8/1/00 " " " " " " " " " " " " Due to process knowledge there is no rad constituents																																																									
<table border="1"> <thead> <tr> <th>ITEM</th> <th>ID / DESCRIPTION</th> <th>SAMPLING DATE</th> <th>TIME</th> <th>MATRIX</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>UC1S1V1</td> <td>8/1/00</td> <td>1600</td> <td>SOIL</td> </tr> <tr> <td>1</td> <td>UC1S1V2</td> <td>8/1/00</td> <td>1610</td> <td>SOIL</td> </tr> <tr> <td>2</td> <td>UC1S1V3</td> <td>8/1/00</td> <td>1615</td> <td>SOIL</td> </tr> <tr> <td>3</td> <td>UC1S1V4</td> <td>8/1/00</td> <td>1620</td> <td>SOIL</td> </tr> <tr> <td>4</td> <td>UC1S1V5</td> <td>8/1/00</td> <td>1625</td> <td>SOIL</td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			ITEM	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX	0	UC1S1V1	8/1/00	1600	SOIL	1	UC1S1V2	8/1/00	1610	SOIL	2	UC1S1V3	8/1/00	1615	SOIL	3	UC1S1V4	8/1/00	1620	SOIL	4	UC1S1V5	8/1/00	1625	SOIL	5					6					7					8					9					Complete for samples shipped to an OFF-SITE Subcontract Laboratory: NEL			Received (Counter & Tracking Info.) 8/2/00 1300 BN Courier 2012028 Received (1st tier Subcontractor Rep) 8/2/00 1545 /s/ Signature on file		
ITEM	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX																																																											
0	UC1S1V1	8/1/00	1600	SOIL																																																											
1	UC1S1V2	8/1/00	1610	SOIL																																																											
2	UC1S1V3	8/1/00	1615	SOIL																																																											
3	UC1S1V4	8/1/00	1620	SOIL																																																											
4	UC1S1V5	8/1/00	1625	SOIL																																																											
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Transfer of samples submitted for analyses			Relinquished (BN Representative Signature) Wayne Johnson			Received (2nd tier Subcontractor Rep) BN Courier																																																									
Sampled/Relinquished (Signature/Organization) /s/ Signature on file			DATE / TIME 8/1/00 1629			Relinquished (1st tier Subcontractor Rep) BN Courier																																																									
/s/ Signature on file			DATE / TIME 8/2/00 0825			Relinquished (1st tier Subcontractor Rep) BN Courier																																																									
/s/ Signature on file			DATE / TIME 8/2/00 0710			Relinquished (1st tier Subcontractor Rep)																																																									

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1-888-368-328

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
ATTN: Dave Madsen

PROJECT NAME: V870
PROJECT NUMBER: 17777

NEL ORDER ID: L0008129

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/10/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

/s/ Stan Van Wageningen

~~Stan Van Wageningen~~
Laboratory Manager

8/15/00
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V870
 PROJECT #: 17777

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
 METHOD: EPA 8015M
 ORDER ID: L0008129

MATRIX: Solid

ANALYST: SLB - Las Vegas Division

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/kg	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
UCISV6	8/9/00	L0008129-01	ND	ND	20. mg/kg	85 %	8/11/00	8/11/00

C.R.: Carbon Range

QUALITY CONTROL DATA (Total for Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 000811TP -BLK	ND	< 20 mg/kg	81 %	NA
LCS, 000811TPHS-LCS	68 %	54 - 91 %	78 %	NA
LCSD, 000811TPHS-LCSD	65 %	54 - 91 %	78 %	NA
MS, 000811TPHS-MS	79 %	34 - 110 %	93 %	L0008118-03
MSD, 000811TPHS-MSD	74 %	34 - 110 %	88 %	L0008118-03

* Surrogate used was Octacosane, acceptance limits 55-130%.

ND - Not Detected

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ANALYTICAL SERVICES LABORATORY SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION Project: <u>CANTA 2020 Clusters</u> BN Org#: <u>2152</u> Charge No.: <u>286014AC</u> ASL Prog: _____ Project Manager: <u>Wayne Johnson</u> Phone: <u>295-0573</u> Fax: <u>295-7761</u> MS: <u>NTS 306</u>		REPORT INFORMATION Send Report to: <u>Dave Macken</u> Phone: <u>295-7211</u> Fax: <u>295-7761</u> MS: <u>NTS 306</u> Turnaround: <input checked="" type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: _____ <input checked="" type="checkbox"/> Rush Preliminary by: <u>8/15/00</u> Final by: _____ Final report format: <input type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other: _____	
LAB USE ONLY Rad SGD: _____ Non-Rad SDG: <u>V870</u> Rad Packet: _____ Non-Rad Packet: <u>W1914</u> Client Services Representative: _____		ANALYSES & METHOD <div style="font-size: 2em; text-align: center;">8/15 10008129</div>	
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If not, identify the variation _____ Date: _____ CSR initials indicating review and approval: _____		SAMPLE INFORMATION Sampling Site: <u>CANTA Area 5</u> The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
SAMPLE RECEIPT INFORMATION Are all sample containers received intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____ Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____ Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____		COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) <u>Samples on Ice. No rad content</u> <u>From CANTA Rad Area</u> <u>-NOX</u>	

Transfer of samples submitted for analyses		Complete for samples shipped to an OFF-SITE Subcontract Laboratory	
Sampled/Relinquished (Signature/Organization)	DATE / TIME	DATE / TIME	Received (Counter & Tracking Info.)
/s/ Signature on file	<u>8/10/00 13:40</u>	<u>8/10/00 13:00</u>	<u>BN MAEIER</u>
/s/ Signature on file	<u>8/10/00 08:40</u>		Received (1st tier Subcontractor Rep)
/s/ Signature on file	<u>8/10/00 08:12</u>	<u>8-10-00 17:00</u>	/s/ Signature on file

Distribution: Original - To be retained by laboratory performing final analysis
 Copy 1 - To be retained by laboratory performing intermediate analysis

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Las Vegas Division
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1-888-368-3282

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
ATTN: Dave Madsen

PROJECT NAME: V884
PROJECT NUMBER: 17777

NEL ORDER ID: L0008325

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/28/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

/s/ Stan Van Wagenen

Stan Van Wagenen
Laboratory Manager

8/2/01 reissue
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT: Bechtel Nevada
PROJECT ID: V884
PROJECT #: 17777

CLIENT ID: UCIYV1
DATE SAMPLED: 8/25/00
NEL SAMPLE ID: L0008325-01

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1
ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/29/00
ANALYZED: 8/29/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	39 mg/kg	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	39 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	96	54- 130

ND - Not Detected

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CLIENT: Bechtel Nevada
PROJECT ID: V884
PROJECT #: 17777

CLIENT ID: UCIYV2
DATE SAMPLED: 8/25/00
NEL SAMPLE ID: L0008325-02

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/29/00
ANALYZED: 8/29/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	38 mg/kg	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	69 mg/kg	50. mg/kg
Total	107 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	106	54- 130

ND - Not Detected

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CLIENT: Bechtel Nevada
PROJECT ID: V884
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 000828TPHS-FP1-BLK

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/29/00
ANALYZED: 8/29/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	93	54 - 130

ND - Not Detected

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PROJECT/CLIENT INFORMATION

Project: CNTA 200 Closure BN Orig: 2152 Send Report to: Dev. Madgen

Charge No: CRG014AL ASI Prog: ER01340 Phone: 725-7211 Fax: 725-7761 MS: NTS 306

Project Manager: Wayne Johnson Turnaround: () Standard - 30 days Non-rad, 60 Days Rad, Other: NTS 306

Phone: 725-2573 Fax: 725-7761 MS: NTS 306 Final report format: () Standard () NTS-WAC () Other: SE hours → 9/30/00

LAB USE ONLY

Rad SGD: V884 Non-Rad SGD: W1928

Rad Packet: W1928

Next Services Representative:

Will these analyses be performed under a signed SOW? () YES () NO
 If so, do analyses entered here agree with the SOW? () YES () NO () NA
 If not, identify the variation
 CSR Initials indicating review and approval: _____ Date: _____

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX
		DATE	TIME	
0	UC1YU1	8/24/00	1108	soil
1	UC1YU2	8/24/00	1112	soil
2				
3				
4				
5				
6				
7				
8				
9				

ANALYSES & METHOD

Are all sample containers received intact? Yes () No
 Comments: _____

Do the labels agree with this form? Yes () No
 Comments: _____

Was a Material Clearance Tag submitted? Yes () No
 Comments: _____

COMMENTS
 (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)
Sample placed on ice
" "
LAB ONLY

REPORT INFORMATION

Sampling Site: UC-1 Area Y

The samples submitted contain (check):
 () Hazardous () Radioactive (X) Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE RECEIPT INFORMATION

Complete for samples shipped to an OFF-SITE Subcontract Laboratory: NEL

Retrieved (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
/s/ Signature on file	8/29/00	BN COURIER
Retrieved (Courier & Tracking Info.)		Received (1st tier Subcontractor Rep)
Retrieved (1st tier Subcontractor Rep)		Received (2nd tier Subcontractor Rep)

NEL LABORATORIES

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Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89002
(702) 657-1010 • Fax: (702) 657-1571
1-888-368-3211

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
ATTN: Dave Madsen

PROJECT NAME: NA 506886
PROJECT NUMBER: 17777

NEL ORDER ID: L0009010

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 9/1/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

/s/ Stan Van Wagenen

Stan Van Wagenen
Laboratory Manager

9/6/00
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: NA
 PROJECT #: 17777

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
 METHOD: EPA 8015M
 ORDER ID: L0009010
 MATRIX: Solid

ANALYST: SLB - Las Vegas Division

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/kg	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
UC1YV3	8/31/00	L0009010-01	ND	ND	20. mg/kg	95 %	9/5/00	9/5/00

C.R.: Carbon Range

QUALITY CONTROL DATA (Total for Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 000905TP -BLK	ND	< 20 mg/kg	107 %	NA
LCS, 000905TPHS-LCS	85 %	54 - 91 %	92 %	NA
LCSD, 000905TPHS-LCSD	83 %	54 - 91 %	101 %	NA
MS, 000905TPHS-MS	84 %	34 - 110 %	91 %	L0009010-01
MSD, 000905TPHS-MSD	82 %	34 - 110 %	93 %	L0009010-01

* Surrogate used was Octacosane, acceptance limits 55-130%.

ND - Not Detected

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10009010



ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION		REPORT INFORMATION		SAMPLE INFORMATION													
Project: CANTA 2000	BN Orig#: 2152	Send Report to: Dave Madsen	Phone: 295-7241	Fac: 295-7761	MIS: NTS 306												
Change No.: C86014AC	ASL Prog:	Turnaround: () Standard - 30 days Non-rad, 60 Days Rad, Other: Final by: SR hr	Sampling Site: UC-1 Area Y														
Project Manager: Wayne Johnson	Phone: 295-0573	Final report format: () Standard () NTS-WAC () Other: NTS 306	The samples submitted contain (check): <input type="checkbox"/> Hazardous () Radioactive <input checked="" type="checkbox"/> Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.														
LAB USE ONLY		ANALYSES & METHOD															
Rad SGD: Non-Rad SDG:	Rad Packet: Non-Rad Packet:	<p>Are all sample containers received intact () Yes () No Comments: _____</p> <p>Do the labels agree with this form? () Yes () No Comments: _____</p> <p>Was a Material Clearance Tag submitted? () Yes () No Comments: _____</p> <p>COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.) Sample on ice</p>															
Client Services Representative:	Client Services Representative:																
<p>Will these analyses be performed under a signed SOW? () YES () NO If so, do analyses entered here agree with the SOW? () YES () NO () N/A If not, identify the variation _____ CSR initials indicating review and approval: _____ Date: _____</p>		<p>Complete for samples shipped to an OFF-SITE Subcontract Laboratory</p> <table border="1"> <thead> <tr> <th>Reinquired (BN Representative Signature)</th> <th>DATE / TIME</th> <th>Received (Counter & Tracking Info.)</th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>				Reinquired (BN Representative Signature)	DATE / TIME	Received (Counter & Tracking Info.)	_____	_____	_____	_____	_____	_____	_____	_____	_____
Reinquired (BN Representative Signature)	DATE / TIME	Received (Counter & Tracking Info.)															
_____	_____	_____															
_____	_____	_____															
_____	_____	_____															
<p>Transfer of samples submitted for analyses</p> <table border="1"> <thead> <tr> <th>Sample/Reinquired (Signature/Organization)</th> <th>DATE / TIME</th> </tr> </thead> <tbody> <tr> <td>Signature on file EVER 2/1/02 1547</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </tbody> </table>		Sample/Reinquired (Signature/Organization)	DATE / TIME	Signature on file EVER 2/1/02 1547	_____	_____	_____	_____	_____	<p>Signature on file UPAC</p> <p>Custody Seal Intact: Y N None Temp: 2°C Condition when received: Poor Good</p>							
Sample/Reinquired (Signature/Organization)	DATE / TIME																
Signature on file EVER 2/1/02 1547	_____																
_____	_____																
_____	_____																
<p>Distributor: Original - to be retained by laboratory performing final analysis</p>		<p>Signature on file EVER 2/1/02 1547</p>															

NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89031
(702) 657-1010 • Fax: (702) 657-157
1-888-368-328

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
ATTN: Dave Madsen

PROJECT NAME: CNTA ^{Closure} ~~Closure~~ 306 V884
PROJECT NUMBER: 2152

NEL ORDER ID: L0008076

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/7/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

/s/ Stan Van Wagenen

Stan Van Wagenen
Laboratory Manager

8/9/00
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: CNTA Coshler
 PROJECT #: 2152

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
 METHOD: EPA 8015M
 ORDER ID: L0008076
 MATRIX: Solid

ANALYST: SLB - Las Vegas Division

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/kg	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
UC3ZV1	8/3/00	L0008076-01	ND	ND	20. mg/kg	83 %	8/7/00	8/8/00
UC3ZV2	8/3/00	L0008076-02	ND	ND	20. mg/kg	86 %	8/7/00	8/8/00
UC3ZV3	8/3/00	L0008076-03	ND	ND	20. mg/kg	78 %	8/7/00	8/8/00
UC3ZV4	8/3/00	L0008076-04	ND	ND	20. mg/kg	88 %	8/7/00	8/8/00
UC3ZV5	8/3/00	L0008076-05	ND	ND	20. mg/kg	88 %	8/7/00	8/8/00
UC3ZV6	8/3/00	L0008076-06	ND	ND	20. mg/kg	63 %	8/7/00	8/8/00

C.R.: Carbon Range

QUALITY CONTROL DATA (Total for Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 000807TP -BLK	ND	< 20 mg/kg	83 %	NA
LCS, 000807TPHS-LCS	77 %	54 - 91 %	81 %	NA
LCSD, 000807TPHS-LCSD	73 %	54 - 91 %	93 %	NA

* Surrogate used was Octacosane, acceptance limits 55-130%.

ND - Not Detected

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014
 00080700

00-AUG-07-08-21



ANALYTICAL SERVICES LABORATORY
 SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT/CLIENT INFORMATION			REPORT INFORMATION			SAMPLE INFORMATION					
Project: CNTA Cucklake	BN Orig#: 2152	Send Report to: Dave Madson	Phone: 295-7211	Fax: 295-7761	M/S: NTS 306	Sampling Site: CNTA UC-3 AREA	The samples submitted contain (check): <input type="checkbox"/> Hazardous <input type="checkbox"/> Radioactive <input checked="" type="checkbox"/> Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.				
Charge No.: 686014AC	ASL Prog.:	Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: 48 hrs	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:	ANALYSES & METHOD			SAMPLE RECEIPT INFORMATION				
Project Manager: Wayne Jackson	M/S: NTS 306	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:			Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Comments:			
Phone: 295-0573	Fax: 295-7761	LAB USE ONLY			Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Comments:			
Rad SGD: V864	Non-Rad SDG: W1908	Client Services Representative:			Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Comments:			
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO	If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	CSR initials indicating review and approval: _____ Date: _____			COMMENTS			(Preservative, size/volume, MSMSD, special analysis, rad matrix code, count time, etc.)			
0	UC32V1	8/3/00	1250	2011	✓	Samples on ice			↓		
1	UC32V2	8/3/00	1255		✓	↓			↓		
2	UC32V3	8/3/00	1258		✓	↓			↓		
3	UC32V4	8/3/00	1303		✓	↓			↓		
4	UC32V5	8/3/00	1323		✓	↓			↓		
5	UC32V6	8/3/00	1309		✓	↓			↓		
6		8/3/00			✓	↓			↓		
7						↓			↓		
8						↓			↓		
9						↓			↓		
Transfer of samples submitted for analyses					Complete for samples shipped to an OFF-SITE Subcontract Laboratory						
Sampled/Relinquished (Signature/Organization)		DATE / TIME		Received by (Signature/Organization)		DATE / TIME		Received (Counter & Tracking Info.)			
/s/ Signature on file		8/3/00 1616		/s/ Signature on file		8/7/00 1300		BN COURIER			
/s/ Signature on file		8/7/00 0838		/s/ Signature on file		8/7/00 1300		BN COURIER			
/s/ Signature on file		8/7/00 0900		/s/ Signature on file		8/7/00 1300		BN COURIER			
				/s/ Signature on file				Received (1st tier Subcontractor Rep)			
				/s/ Signature on file				Received (2nd tier Subcontractor Rep)			

01
 02
 03
 04
 05
 06

NEL LABORATORIES

Reno • Las Vegas
Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
ATTN: Ted Redding

PROJECT NAME: NA
PROJECT NUMBER: 17777

NEL ORDER ID: L0008188

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/17/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Sample UC4SV5 has peaks below the reporting limit eluting in the Diesel/Oil range. The peaks do not resemble either Diesel or Oil.

/s/ Stan Van Wagenen

Stan Van Wagenen
Laboratory Manager

8/2/01 re-issue
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT: Bechtel Nevada
PROJECT ID: NA
PROJECT #: 17777

CLIENT ID: UC4SV1
DATE SAMPLED: 8/16/00
NEL SAMPLE ID: L0008188-01

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: SLB - Las Vegas Division
EXTRACTED: 8/17/00
ANALYZED: 8/18/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	83	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: NA
PROJECT #: 17777

CLIENT ID: UC4SV2
DATE SAMPLED: 8/16/00
NEL SAMPLE ID: L0008188-02

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: SLB - Las Vegas Division
EXTRACTED: 8/17/00
ANALYZED: 8/18/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	31 mg/kg	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	31 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	76	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: NA
PROJECT #: 17777

CLIENT ID: UC4SV3
DATE SAMPLED: 8/16/00
NEL SAMPLE ID: L0008188-03

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: SLB - Las Vegas Division
EXTRACTED: 8/17/00
ANALYZED: 8/18/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	83	54- 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: NA
PROJECT #: 17777

CLIENT ID: UC4SV4
DATE SAMPLED: 8/16/00
NEL SAMPLE ID: L0008188-04

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: SLB - Las Vegas Division
EXTRACTED: 8/17/00
ANALYZED: 8/18/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	81	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: NA
PROJECT #: 17777

CLIENT ID: UC4SV5
DATE SAMPLED: 8/16/00
NEL SAMPLE ID: L0008188-05

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: SLB - Las Vegas Division
EXTRACTED: 8/17/00
ANALYZED: 8/18/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	85	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: NA
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 000817TPHS-FP-BLK

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
ANALYST: SLB - Las Vegas Division
EXTRACTED: 8/17/00
ANALYZED: 8/18/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	80	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

8/21 10008188



ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION
 Project: CNTA 2000 Closure BN Orig#: 2152
 Charge No.: C8G014AC ASL Prog.:
 Project Manager: Wayne Johnson
 Phone: 295-0573 Fax: 295-7761 M/S: NTS 306

REPORT INFORMATION
 Send Report to: Dave Maden
 Phone: 295-7211 Fax: 295-7761 M/S: NTS 306
 Turnaround: () Standard - 30 days Non-rad, 60 Days Rad, Other:
 Rush Preliminary by: SL&K Final by:
 Final report format: () Standard () NTS-WAC () Other:

SAMPLE INFORMATION
 Sampling Site: LC-4 Area 5
 The samples submitted contain (check):
 Hazardous () Radioactive Unknown contamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

LAB USE ONLY
 Rad SGD: Non-Rad SDG: V877R
 Rad Packet: Non-Rad Packet:
 Client Services Representative:
 Will these analyses be performed under a signed SOW? () YES () NO
 If so, do analyses entered here agree with the SOW? () YES () NO () N/A
 If not, identify the variation
 CSR initials indicating review and approval: _____ Date: _____

ANALYSES & METHOD

ITEM	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX
01	<u>LC4SV1</u>	<u>8/16/00</u>	<u>1334</u>	<u>Soil</u>
02	<u>LC4SV2</u>		<u>1337</u>	
03	<u>LC4SV3</u>		<u>1351</u>	
04	<u>LC4SV4</u>		<u>1355</u>	
05	<u>LC4SV5</u>		<u>1403</u>	

ITEM	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX	ANALYSES & METHOD	RECEIVED	DATE / TIME
01	<u>LC4SV1</u>	<u>8/16/00</u>	<u>1334</u>	<u>Soil</u>	<u>TPH (Dred, Waste Oil, heave fractions)</u>	<u>Peer</u>	
02	<u>LC4SV2</u>		<u>1337</u>				
03	<u>LC4SV3</u>		<u>1351</u>				
04	<u>LC4SV4</u>		<u>1355</u>				
05	<u>LC4SV5</u>		<u>1403</u>				
Custody Seal Intact (N) Non-Temp: 30C Condition when received: Peer							

COMMENTS
 (Preservative, size/volume, MSMSD, special analysis, rad matrix code, count time, etc.)
Sample plates on use
Need Copy of
Chromatograph
analytical results
for samples & standards.

Transfer of samples submitted for analyses

Sampled/Relinquished (Signature/Organization)	DATE / TIME	Received by (Signature/Organization)	DATE / TIME
<u>Peer</u>	<u>8/17/00 0906</u>	<u>s/</u>	

Complete for samples shipped to an OFF-SITE Subcontract Laboratory

Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)
Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)

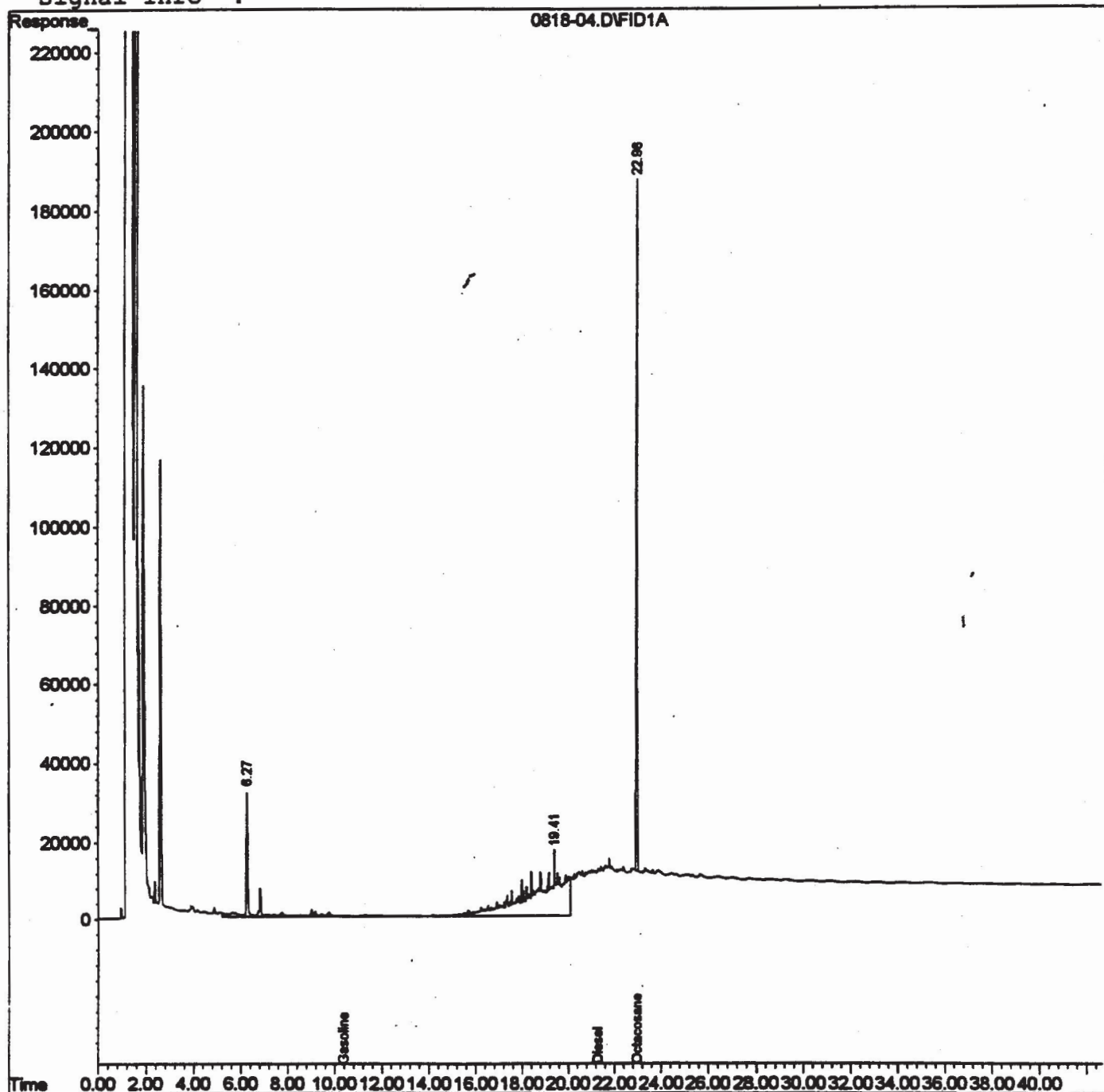
Data File : C:\HPCHEM\2\DATA\000818\0818-04.D
Acq On : 18 Aug 2010 10:20 am
Sample : L0008188-01
Misc : SOIL SAMPLE
IntFile : events.e
Quant Time: Aug 21 13:01 2000

Vial: 43
Operator: JRW
Inst : Seymour
Multiplr: 1.00

Quant Results File: TP0007F2.RES

Quant Method : C:\HPCHEM\2\METHODS\TP0007F2.M (Chemstation Integrator)
Title : 6/21/99 Seymour Front TPH
Last Update : Mon Jul 17 11:26:50 2000
Response via : Multiple Level Calibration
DataAcq Meth : TP9907R1.M

Volume Inj. :
Signal Phase :
Signal Info :



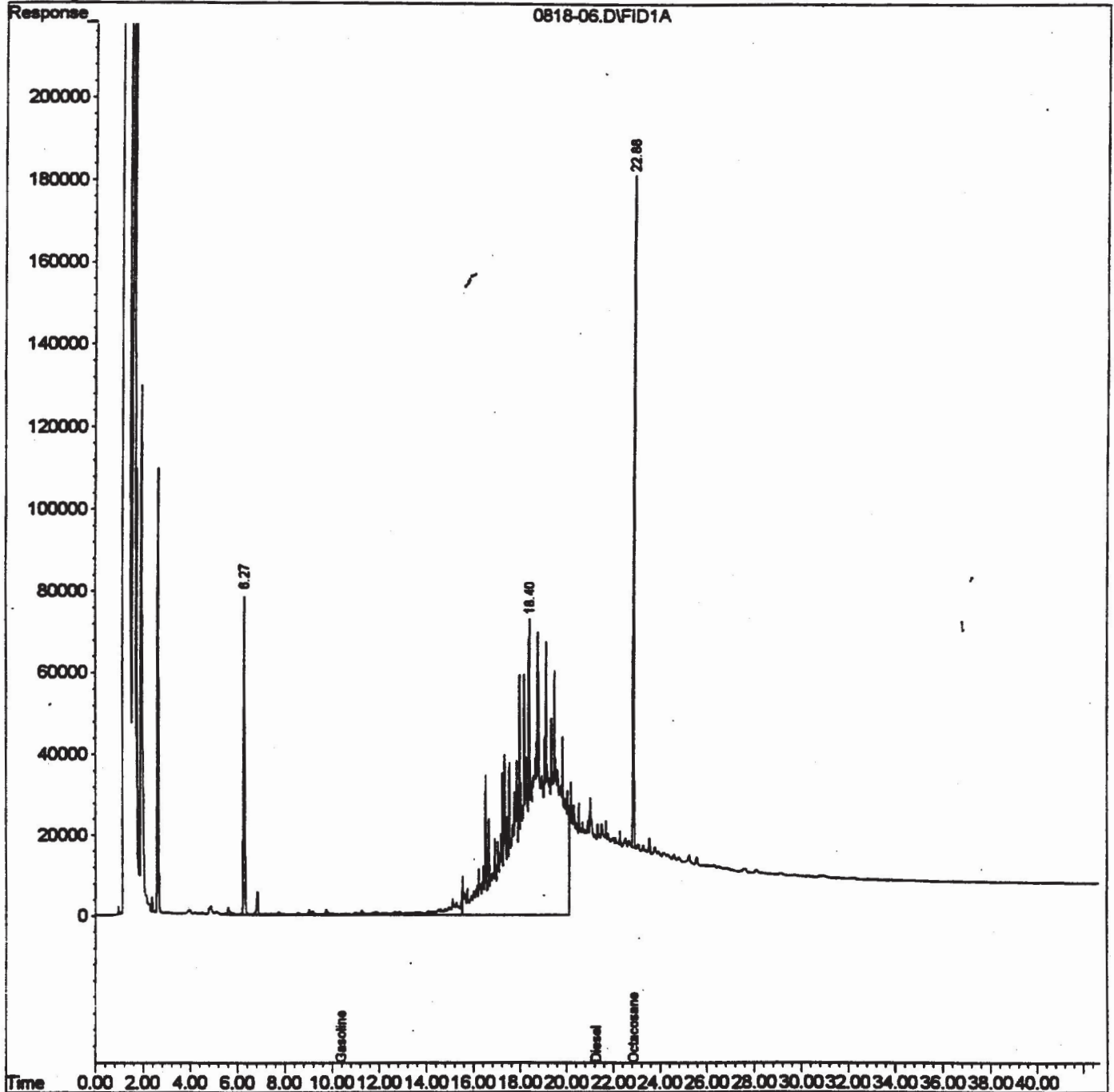
Data File : C:\HPCHE 2\DATA\000818\0818-06.D
Acq On : 18 Aug 20100 11:11 am
Sample : L0008188-02
Misc : SOIL SAMPLE
IntFile : events.e
Quant Time: Aug 21 13:05 2000

Vial: 48
Operator: JRW
Inst : Seymour
Multiplr: 1.00

Quant Results File: TP0007F2.RES

Quant Method : C:\HPCHEM\2\METHODS\TP0007F2.M (Chemstation Integrator)
Title : 6/21/99 Seymour Front TPH
Last Update : Mon Jul 17 11:26:50 2000
Response via : Multiple Level Calibration
DataAcq Meth : TP9907R1.M

Volume Inj. :
Signal Phase :
Signal Info :

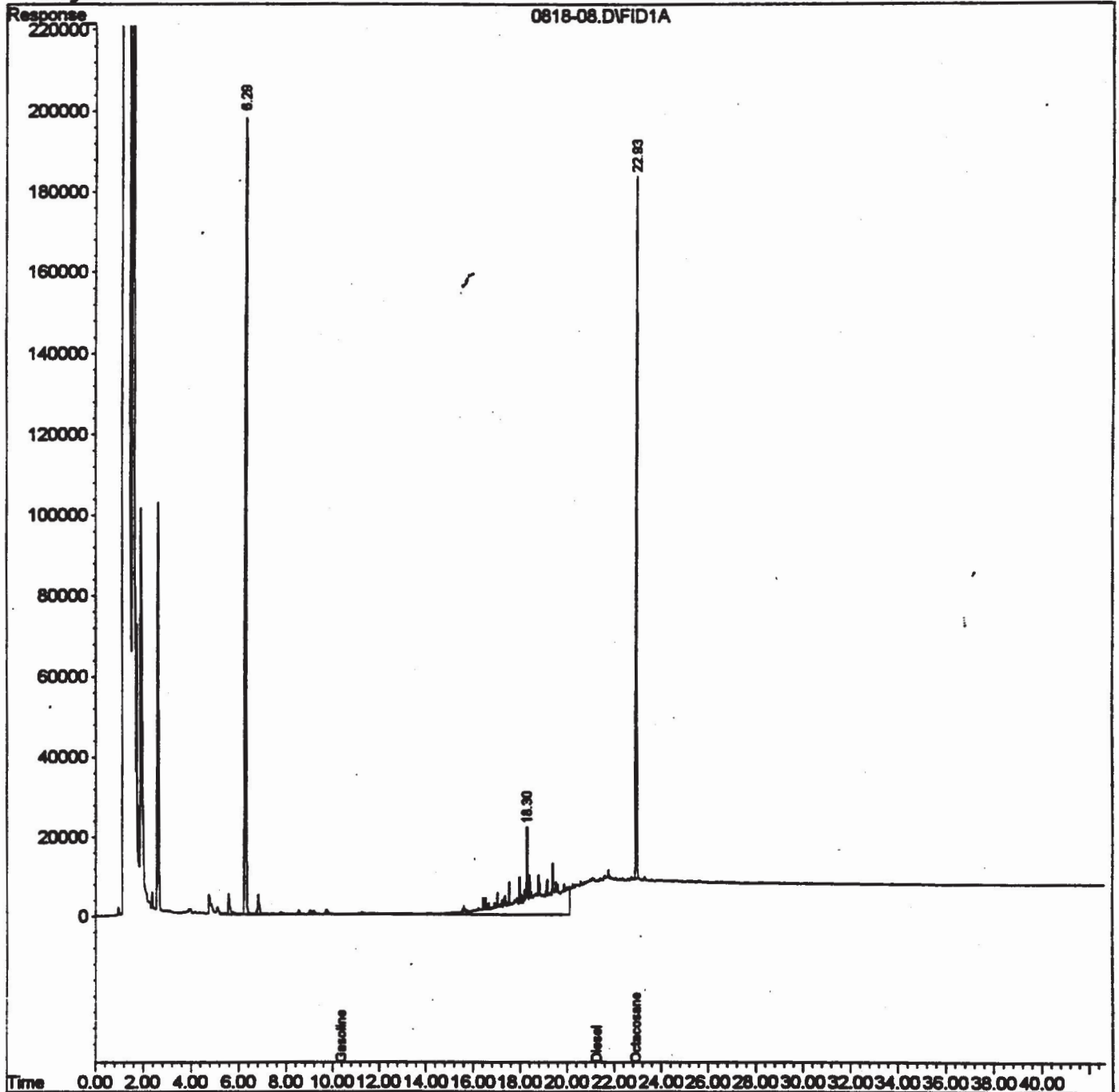


Data File : C:\HPCHI 2\DATA\000818\0818-08.D
Acq On : 18 Aug 2010 12:03 pm
Sample : L0008188-03
Misc : SOIL SAMPLE
IntFile : events.e
Quant Time: Aug 21 13:07 2000 Quant Results File: TP0007F2.RES

Vial: 49
Operator: JRW
Inst : Seymour
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\TP0007F2.M (Chemstation Integrator)
Title : 6/21/99 Seymour Front TPH
Last Update : Mon Jul 17 11:26:50 2000
Response via : Multiple Level Calibration
DataAcq Meth : TP9907R1.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\000818\0818-10.D

Vial: 50

Acq On : 18 Aug 20100 12:55 pm

Operator: JRW

Sample : L0008188-04

Inst : Seymour

Misc : SOIL SAMPLE

Multiplr: 1.00

IntFile : events.e

Quant Time: Aug 21 13:10 2000 Quant Results File: TP0007F2.RES

Quant Method : C:\HPCHEM\2\METHODS\TP0007F2.M (Chemstation Integrator)

Title : 6/21/99 Seymour Front TPH

Last Update : Mon Jul 17 11:26:50 2000

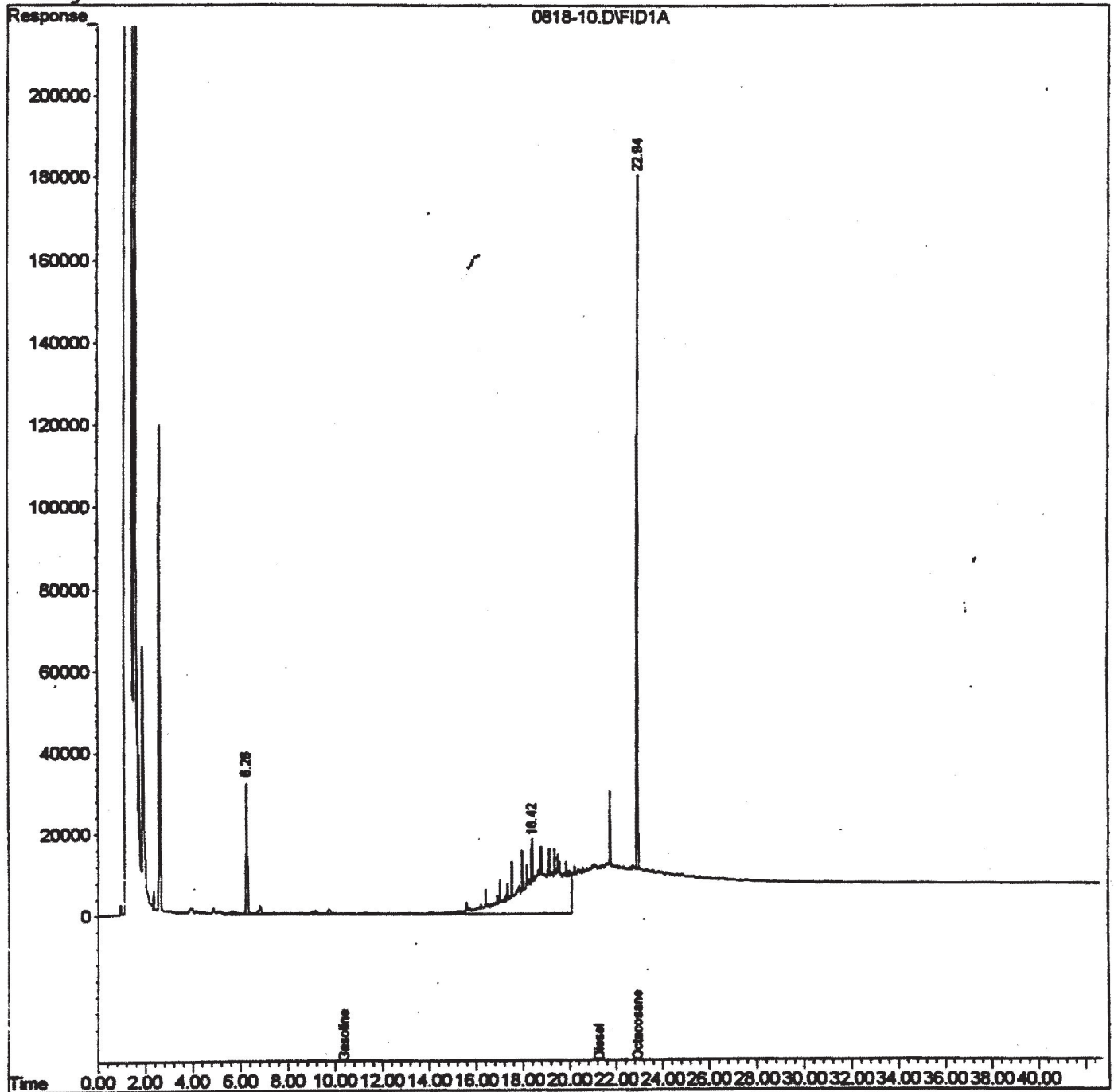
Response via : Multiple Level Calibration

DataAcq Meth : TP9907R1.M

Volume Inj. :

Signal Phase :

Signal Info :

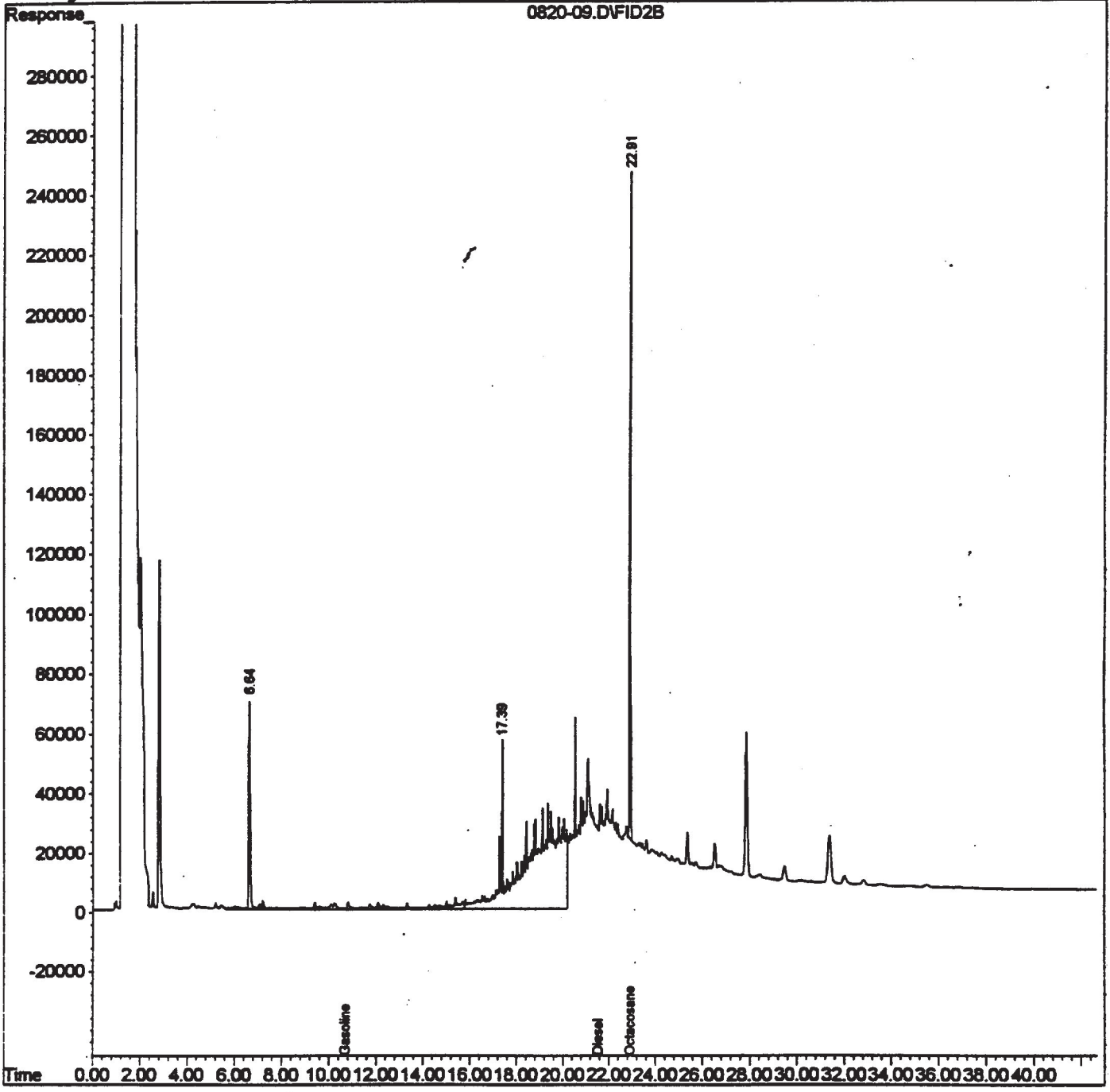


Data File : C:\HPCHEM\2\DATA\000820.SEC\0820-09.D
Acq On : 20 Aug 20100 10:55 pm
Sample : L0008188-05
Misc : SOIL SAMPLE
IntFile : events.e
Quant Time: Aug 21 12:07 2000

Vial: 52
Operator: JRW
Inst : Seymour
Multiplr: 1.00

Quant Results File: TP0008R2.RES
Quant Method : C:\HPCHEM\2\METHODS\TP0008R2.M (Chemstation Integrator)
Title : 6/21/99 Seymour Front TPH
Last Update : Fri Aug 18 07:42:19 2000
Response via : Multiple Level Calibration
DataAcq Meth : TP9907R1.M

Volume Inj. :
Signal Phase :
Signal Info :



NEL LABORATORIES

Reno • Las Vegas
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Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030
702-657-1010 • Fax: 702-657-1577
1-888-368-3282

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
ATTN: Ted Redding

PROJECT NAME: V881
PROJECT NUMBER: 17777

NEL ORDER ID: L0008264

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/23/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

/s/ Stan Van Wagenen

Stan Van Wagenen
Laboratory Manager

8/23/01 re-issued
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV6
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-01

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1
ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/23/00
ANALYZED: 8/24/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	80 mg/kg	50. mg/kg
Total	80 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	75	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV7
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-02

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/23/00
ANALYZED: 8/25/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	74	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV8
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-03

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/25/00
ANALYZED: 8/24/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	89	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV9
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-04

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/23/00
ANALYZED: 8/24/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	40 mg/kg	10. mg/kg
Oil Range (C22-C34)	86 mg/kg	50. mg/kg
Total	126 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	103	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV10
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-05

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1
ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/23/00
ANALYZED: 8/24/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	68	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV11
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-06

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/23/00
ANALYZED: 8/24/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	64 mg/kg	50. mg/kg
Total	64 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	77	54- 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV12
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-07

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1
ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/23/00
ANALYZED: 8/24/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	22 mg/kg	10. mg/kg
Oil Range (C22-C34)	140 mg/kg	50. mg/kg
Total	162 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	85	54- 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV13
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-08

TEST: **Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992**
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/23/00
ANALYZED: 8/25/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	77	54 - 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV14
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-09

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/23/00
ANALYZED: 8/25/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	22 mg/kg	10. mg/kg
Diesel Range (C12-C22)	43 mg/kg	10. mg/kg
Oil Range (C22-C34)	140 mg/kg	50. mg/kg
Total	205 mg/kg	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	82	54- 130

ND - Not Detected

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CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: UC4SV15
DATE SAMPLED: 8/22/00
NEL SAMPLE ID: L0008264-10

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
DILUTION: 1

ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/25/00
ANALYZED: 8/25/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	97	54- 130

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 000823TPHS-BLK

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/23/00
ANALYZED: 8/24/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	95	54 - 130

ND - Not Detected

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CLIENT: Bechtel Nevada
PROJECT ID: V881
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 000825TPHS-FP-BLK

TEST: Total Extractable Petroleum Hydrocarbons Fuel Finger Print by EPA Method 8015M, July 1992
METHOD: EPA 8015M
MATRIX: Solid
ANALYST: JRW - Las Vegas Division
EXTRACTED: 8/25/00
ANALYZED: 8/28/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Gasoline Range (C8-C12)	ND	10. mg/kg
Diesel Range (C12-C22)	ND	10. mg/kg
Oil Range (C22-C34)	ND	50. mg/kg
Total	ND	10. mg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Octacosane	92	54 - 130

ND - Not Detected

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NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Divisio
4208 Arcata Way, Suite A • Las Vegas, NV 8903
(702) 657-1010 • Fax: (702) 657-157
1-888-368-328

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
ATTN: Ted Redding

PROJECT NAME: NA 506 V890
PROJECT NUMBER: 17777

NEL ORDER ID: L0008328

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/29/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

/s/ Stan Van Wagenen

Stan Van Wagenen
Laboratory Manager

8/31/00
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: NA
 PROJECT #: 17777

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
 METHOD: EPA 8015M
 ORDER ID: L0008328
 MATRIX: Solid

ANALYST: JRW - Las Vegas Division

<u>CLIENT</u> <u>SAMPLE ID</u>	<u>SAMPLE</u> <u>DATE</u>	<u>NEL</u> <u>SAMPLE ID</u>	<u>RESULT</u> <u>mg/kg</u>	<u>C.R.</u>	<u>Reporting</u> <u>Limit</u>	<u>Surrogate</u> <u>Recovery*</u>	<u>EXTRACTED</u>	<u>ANALYZED</u>
UC4SV16	8/28/00	L0008328-01	ND	ND	20. mg/kg	108 %	8/30/00	8/30/00
UC4SV17	8/28/00	L0008328-02	ND	ND	20. mg/kg	107 %	8/30/00	8/30/00
UC4SV18	8/28/00	L0008328-03	ND	ND	20. mg/kg	109 %	8/30/00	8/30/00

C.R.: Carbon Range

QUALITY CONTROL DATA (Total for Diesel Range):

<u>Sample ID</u>	<u>Result</u>	<u>Acceptable Range</u>	<u>Surrogate Recovery*</u>	<u>Sample Number</u>
Blank, 000830tphs -BLK	ND	< 20 mg/kg	112 %	NA
LCS, 000830tphs1-LCS	75 %	54 - 91 %	107 %	NA
LCSD, 000830tphs1-LCSD	73 %	54 - 91 %	115 %	NA

* Surrogate used was Octacosane, acceptance limits 55-130%.

ND - Not Detected

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PROJECT/CLIENT INFORMATION

Project: CNTA 2020 BN Orig: 2152 Sent Report to: Dave Maden MS: NTS 306

Change No.: CG 014AC ASL Proj: Fax: 295-7211 Fax: 295-7761 MS: NTS 306

Project Manager: Wayne Johnson Final report format: Standard NTS-WAC Other: _____

Phone: 295-0573 Fax: 295-7761 MS: NTS 306

REPORT INFORMATION

Sampling Site: UCY Area S

The samples submitted contain (check):
 Hazardous Radioactive Unknown
contaminant. If known, attach a brief narrative summary
identifying contaminants. This information will ensure
compliance with applicable regulations and allow for the safe
handling of the sample materials.

LAB USE ONLY

Rad SGD: _____ Non-Rad SGD: _____

Rad Packet: _____ Non-Rad Packet: _____

Client Services Representative: _____

Will these analyses be performed under a signed SOW? YES NO
If so, do analyses entered here agree with the SOW? YES NO
If not, identify the violation: _____

CSR initials indicating review and approval: _____ Date: _____

ITEM	ID/DESCRIPTION	SAMPLING		MATRIX	ANALYSES & METHOD	COMMENTS
		DATE	TIME			
01	UC45U16	8/28/00	1316	soil	<p>ANALYSES & METHOD</p> <p>Complete for samples shipped to an OFF-SITE Subcontract Laboratory</p> <p>Requisitioned (1st for Representative Signature) _____ /s/ Signature on file</p> <p>Requisitioned (Counter & Tracking Info.) _____</p> <p>Requisitioned (1st for Subcontractor Rep) _____</p>	<p>COMMENTS</p> <p>(Preservative, size/velocity, MS/MSD, special analysis, rad matrix code, count time, etc.)</p> <p>an 114</p> <p>↓</p> <p>Custody/Seal Intact: <u>Y/N None Tamper</u> <u>BC</u></p> <p>Condition when received: <u>Poor (Good)</u></p>
02	UC45U17	8/28/00	1347	↓		
03	UC45U18	8/28/00	1408	↓		
04						
05						
06						
07						
08						
09						

TRANSFER OF SAMPLES SUBMITTED FOR ANALYSES

Signature/Requisitioned (Signature/Organization) _____ DATE/TIME _____ Received by (Signature/Organization) _____

/s/ Signature on file _____ DATE/TIME 8/29/00 /s/ Signature on file _____

/s/ Signature on file _____ DATE/TIME _____ /s/ Signature on file _____

NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 8903
(702) 657-1010 • Fax: (702) 657-157
1-888-368-328

CLIENT: Bechtel Nevada
P.O. Box 98521, M/S NTS273
Las Vegas, NV 89193-8521
ATTN: Dave Madsen

PROJECT NAME: CNTA ^{Closure} ~~Clester~~ SDG V864
PROJECT NUMBER: 2152

NEL ORDER ID: 10008075

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/7/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

/s/ Stan Van Wagenen

~~Stan Van Wagenen~~
Laboratory Manager

8/9/00
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: CNTA Closhler
 PROJECT #: 2152

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
 METHOD: EPA 8015M
 ORDER ID: 10008075

MATRIX: Solid

ANALYST: SLB - Las Vegas Division

<u>CLIENT SAMPLE ID</u>	<u>SAMPLE DATE</u>	<u>NEL SAMPLE ID</u>	<u>RESULT mg/kg</u>	<u>C.R.</u>	<u>Reporting Limit</u>	<u>Surrogate Recovery*</u>	<u>EXTRACTED</u>	<u>ANALYZED</u>
UC4WV1	8/4/00	10008075-01	ND	ND	20. mg/kg	79 %	8/8/00	8/9/00
UC4WV2	8/4/00	10008075-02	38	D	20. mg/kg	84 %	8/7/00	8/8/00
UC4WV3	8/4/00	10008075-03	32	D	20. mg/kg	76 %	8/7/00	8/8/00
UC4WV4	8/4/00	10008075-04	ND	ND	20. mg/kg	78 %	8/8/00	8/9/00
UC4WV5	8/4/00	10008075-05	20	D	20. mg/kg	89 %	8/7/00	8/8/00
UC4WV6	8/4/00	10008075-06	ND	ND	20. mg/kg	90 %	8/7/00	8/8/00

C.R.: Carbon Range

D Diesel Range Organics (C10 to C28).

QUALITY CONTROL DATA (Total for Diesel Range):

<u>Sample ID</u>	<u>Result</u>	<u>Acceptable Range</u>	<u>Surrogate Recovery*</u>	<u>Sample Number</u>
Blank, 000807TP -BLK	ND	< 20 mg/kg	83 %	NA
LCS, 000807TPHS-LCS	77 %	54 - 91 %	81 %	NA
LCSD, 000807TPHS-LCSD	73 %	54 - 91 %	93 %	NA
Blank, 000808TP -BLK	ND	< 20 mg/kg	74 %	NA
LCS, 000808TPHS-LCS	55 %	54 - 91 %	68 %	NA
LCSD, 000808TPHS-LCSD	67 %	54 - 91 %	89 %	NA

* Surrogate used was Octacosane, acceptance limits 55-130%.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.



ANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION		REPORT INFORMATION		SAMPLE INFORMATION	
Project: <u>CNTA Closer</u>	BN Org#: <u>2152</u>	Send Report to: <u>Dave Madson</u>	Sampling Site: <u>Uc4 Area W</u>	The samples submitted contain (check):	
Charge No.: <u>CG014AC</u>	ASL Prog.:	Phone: <u>295-7211</u>	MS: <u>NTS 306</u>	<input type="checkbox"/> Hazardous	<input checked="" type="checkbox"/> Radioactive
Project Manager: <u>Wayne Johnson</u>		Fax: <u>295-7611</u>	Turnaround: <input type="checkbox"/> Standard - 30 days Non-rad, 60 Days Rad, Other: <u>48 hr</u>	<input checked="" type="checkbox"/> Unknown identifying contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.	
Phone: <u>295-0573</u>	Fax: <u>295-7761</u>	Final report format: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> NTS-WAC <input type="checkbox"/> Other:			

LAB USE ONLY		ANALYSES & METHOD		SAMPLE RECEIPT INFORMATION	
Rad SGD: <u>1864</u>	Non-Rad SGD:	TPH (Diesel/Water Oil)		Are all sample containers received intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Rad Packet: <u>W1908</u>	Non-Rad Packet:			Comments:	
Client Services Representative:				Do the labels agree with this form? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Will these analyses be performed under a signed SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO				Was a Material Clearance Tag submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If so, do analyses entered here agree with the SOW? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A				Comments:	
CSR initials indicating review and approval: _____ Date: _____				COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)	

ITEM	ID / DESCRIPTION	SAMPLING		MATRIX	Received by (Signature/Organization)	DATE / TIME	Received (Courier & Tracking Info.)
		DATE	TIME				
01	UC4WV1	8/4/00	1547	Sol	/s/ Signature on file	8/7/00	Received (1st tier Subcontractor Rep)
02	UC4WV2		1540		/s/ Signature on file	8/7/00	Received (1st tier Subcontractor Rep)
03	UC4WV3		1545		/s/ Signature on file		Received (1st tier Subcontractor Rep)
04	UC4WV4		1547		/s/ Signature on file		Received (1st tier Subcontractor Rep)
05	UC4WV5		1550		/s/ Signature on file		Received (1st tier Subcontractor Rep)
06	UC4WV6		1548		/s/ Signature on file		Received (1st tier Subcontractor Rep)
07							
08							
09							

Transfer of samples submitted for analyses

Complete for samples shipped to an OFF-SITE Subcontract Laboratory UJEL

Relinquished (BN Representative Signature)	DATE / TIME	Received (Courier & Tracking Info.)
/s/ Signature on file	8/7/00	/s/ Signature on file
Relinquished (Courier & Tracking Info.)	DATE / TIME	Received (1st tier Subcontractor Rep)
/s/ Signature on file		
Relinquished (1st tier Subcontractor Rep)	DATE / TIME	Received (2nd tier Subcontractor Rep)
/s/ Signature on file		

Distribution: Original - to be retained by laboratory performing final analysis
 Copy - to be retained by laboratory performing intermediate analysis

APPENDIX B

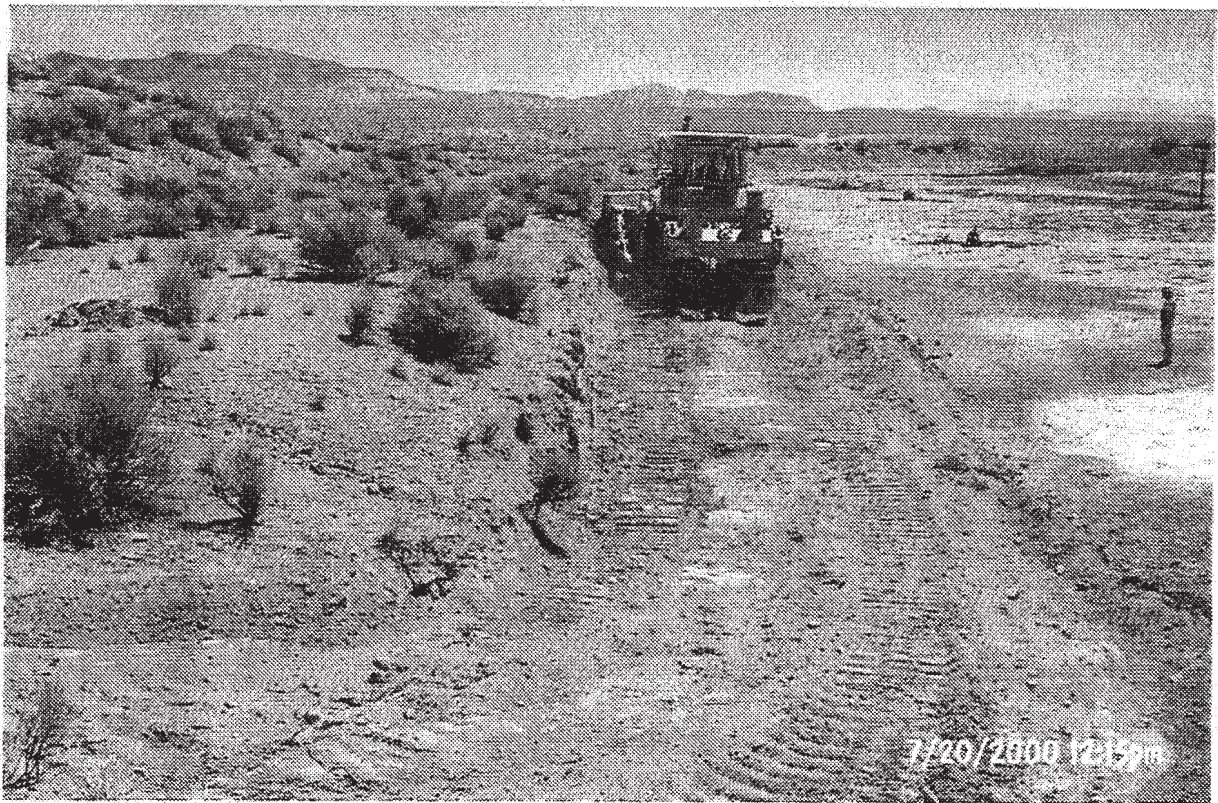
PROJECT PHOTOGRAPHS

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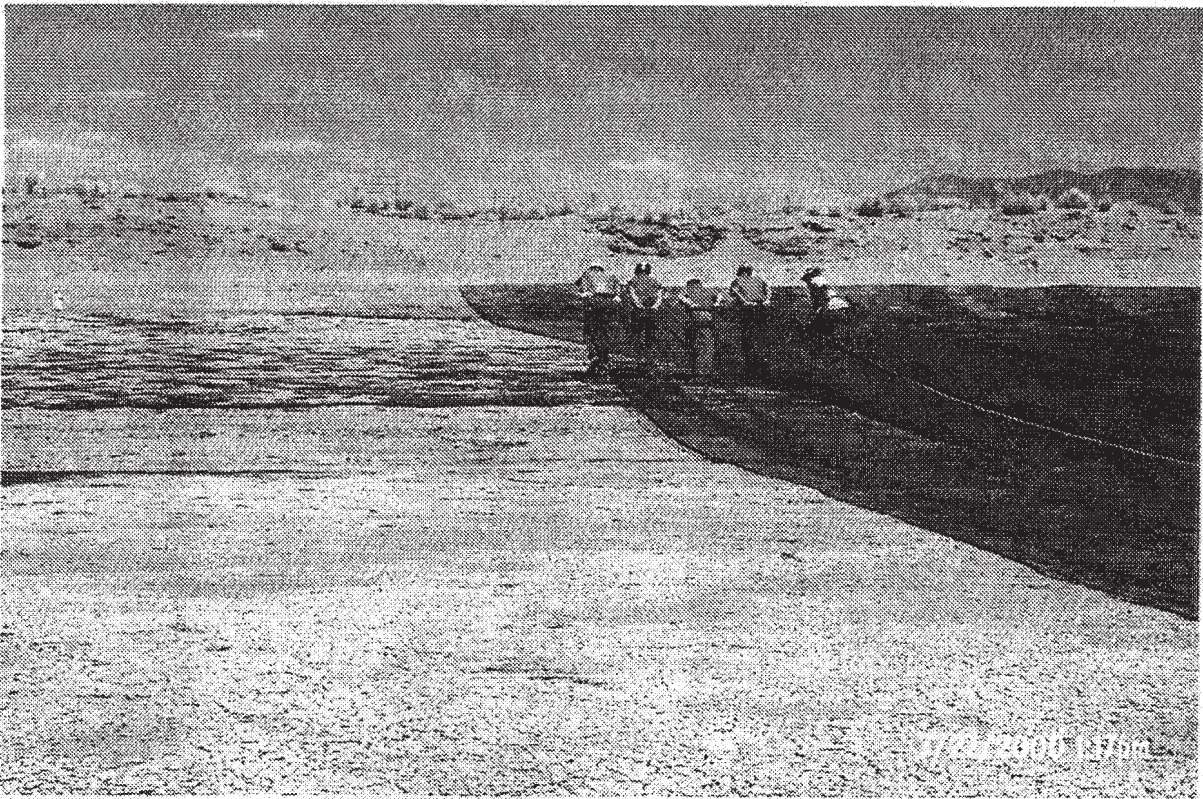
PHOTOGRAPH LOG

PHOTO NUMBER	DATE	DESCRIPTION
1	07/20/2000	Cutting northern side of CMP geogrid anchor bench.
2	07/27/2000	Laying panels of geogrid by hand over the CMP.
3	08/01/2000	Geogrid anchored along northern side of CMP. Geogrid extends completely to the rear (left) edge of bench.
4	08/02/2000	Placing the first 2 foot lift of the CMP cover on the geogrid. Working from the center to the east and west ends of CMP.
5	08/08/2000	Placing the second 2 foot lift of the CMP cover.
6	07/28/2000	Excavating the UC-1 CMP Mud Relocation Trench.
7	08/01/2000	The completed UC-1 CMP Mud Relocation Trench.
8	08/10/2000	Dumping truck loads of drilling material from UC-4 Area S in the UC-1 CMP Mud Relocation Trench.
9	08/11/2000	Stacking drilling material in the Mud Relocation Trench.
10	08/08/2000	Leveling the surface of the stacked drilling mud using a track hoe.
11	08/23/2000	Looking north at the filled Mud Relocation Trench.
12	08/23/2000	West side of geogrid anchor bench in Mud Relocation Trench.
13	08/24/2000	Placing laps of geogrid over the Mud Relocation Trench.
14	09/07/2000	Completed scarified 4 foot mono-layer cover over UC-1 CMP.
15	08/23/2000	South leg of the west flood diversion channel.
16	09/07/2000	Completed east flood diversion channel.
17	09/13/2000	Erecting the UC-1 CMP cover fence.
18	09/14/2000	Using the blade to bury the wire mesh "bunny" fencing.
19	09/13/2000	Scarified UC-1 CMP cover.
20	09/20/2000	Placing subsidence monuments on the UC-1 CMP cover.
21	10/17/2000	Installing the TDR sensors in the UC-1 CMP cover.
22	10/17/2000	Positioning and burying the TDR sensors in the UC-1 CMP cover.

PHOTO NUMBER	DATE	DESCRIPTION
23	12/18/2000	Seeded and mulched UC-1 CMP cover.
24	04/05/2001	Transplanting seedlings on to the UC-1 CMP cover.
25	08/01/2000	Clean closure by excavation of UC-1 Area S, CAS 58-10-03.
26	08/25/2000	Clean closure by excavation of UC-1 Area Y, CAS 58-44-06.
27	08/18//2000	Completed clean closure of UC-3 Area Z, CAS 58-44-03.
28	08/11/2000	Drilling mud in the south bank of the upper area of UC-4 Area S, CAS 58-10-02. Material was removed and placed in the UC-1 Mud Relocation Trench.
29	08/11/2000	Drilling material in the upper section of UC-4 Area S. Material was removed and placed in the UC-1 Mud Relocation Trench.
30	08/15/2000	Drilling mud in the south bank of the upper area of UC-4 Area S, CAS 58-10-02. Material was removed and placed in the UC-1 Mud Relocation Trench.
31	09/14/2000	View looking east down the regraded and scarified drainage of UC-4 Area S. Clean closure of UC-4 Area S, CAS 58-10-02.
32	09/14/2000	Completed clean closure of UC-4 Area W, CAS 58-10-04.



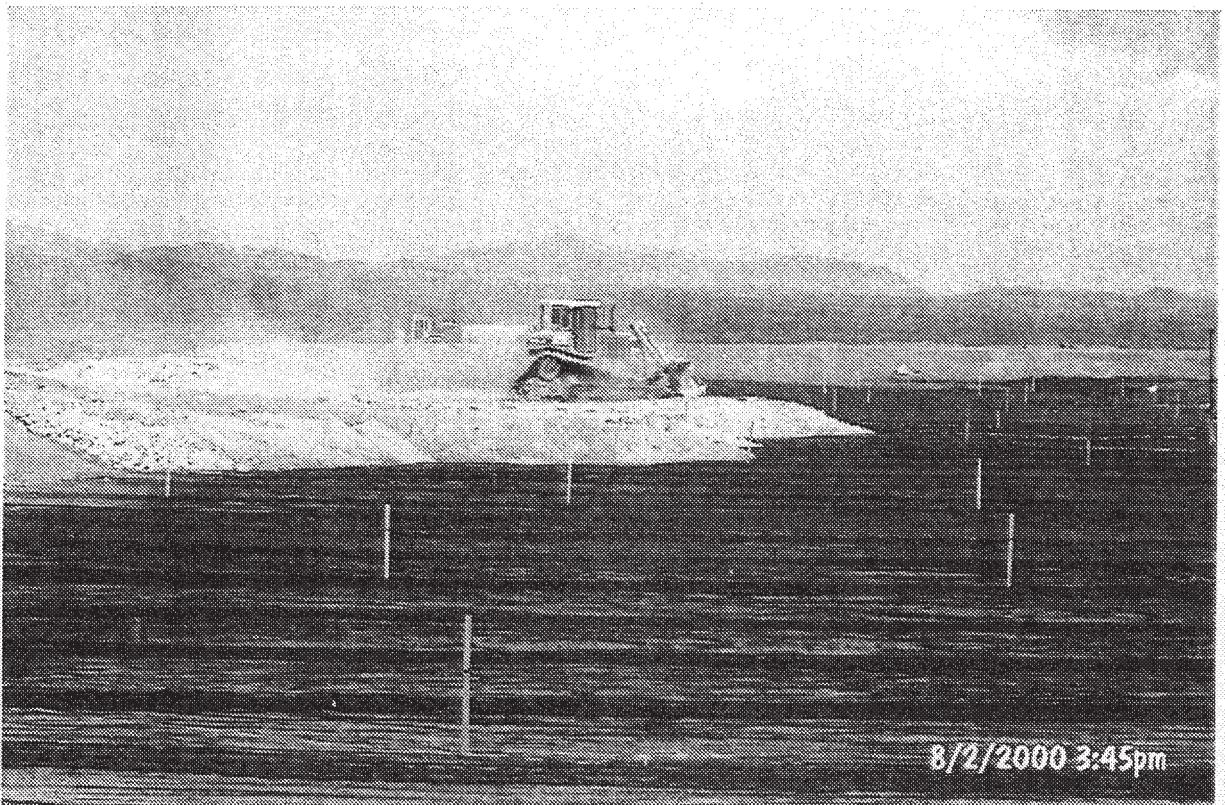
PHOTOGRAPH 1 - Cutting geogrid anchor bench for Central Mud Pit



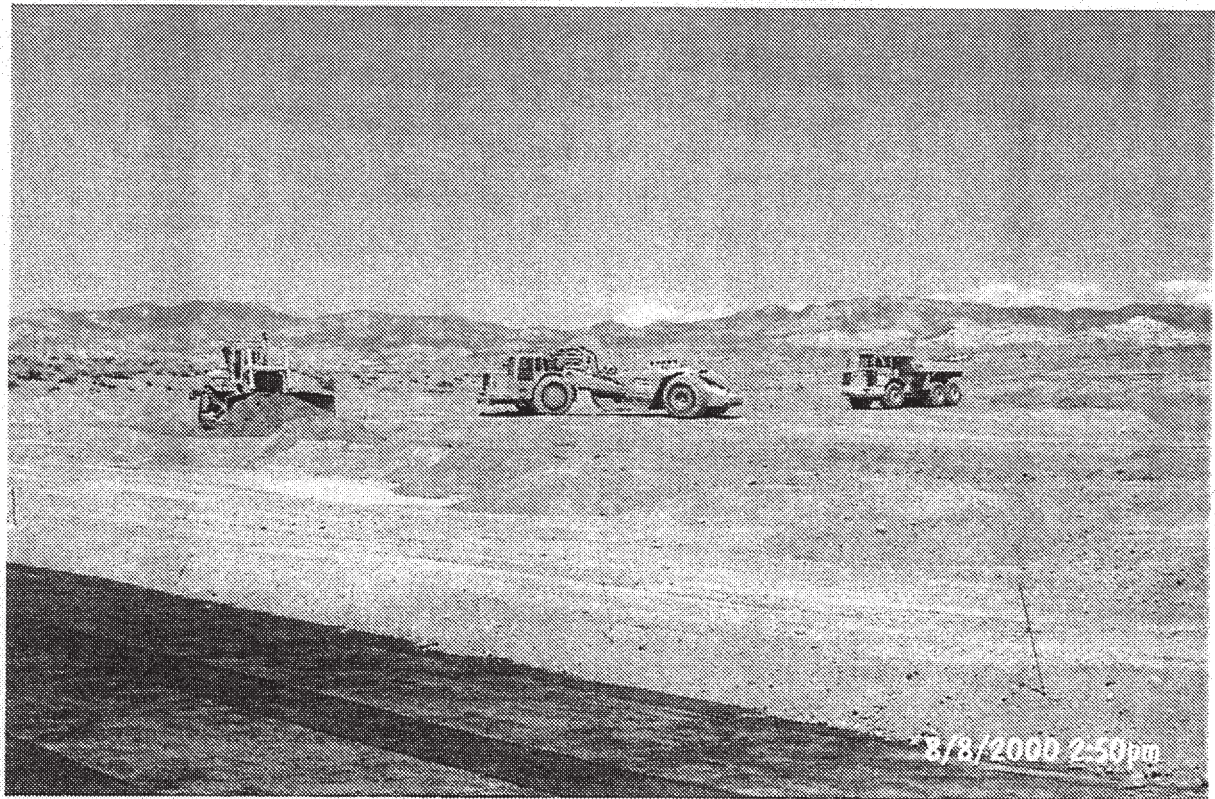
PHOTOGRAPH 2 - Laying panels of geogrid on Central Mud Pit



PHOTOGRAPH 3 - Geogrid anchored in place on CMP



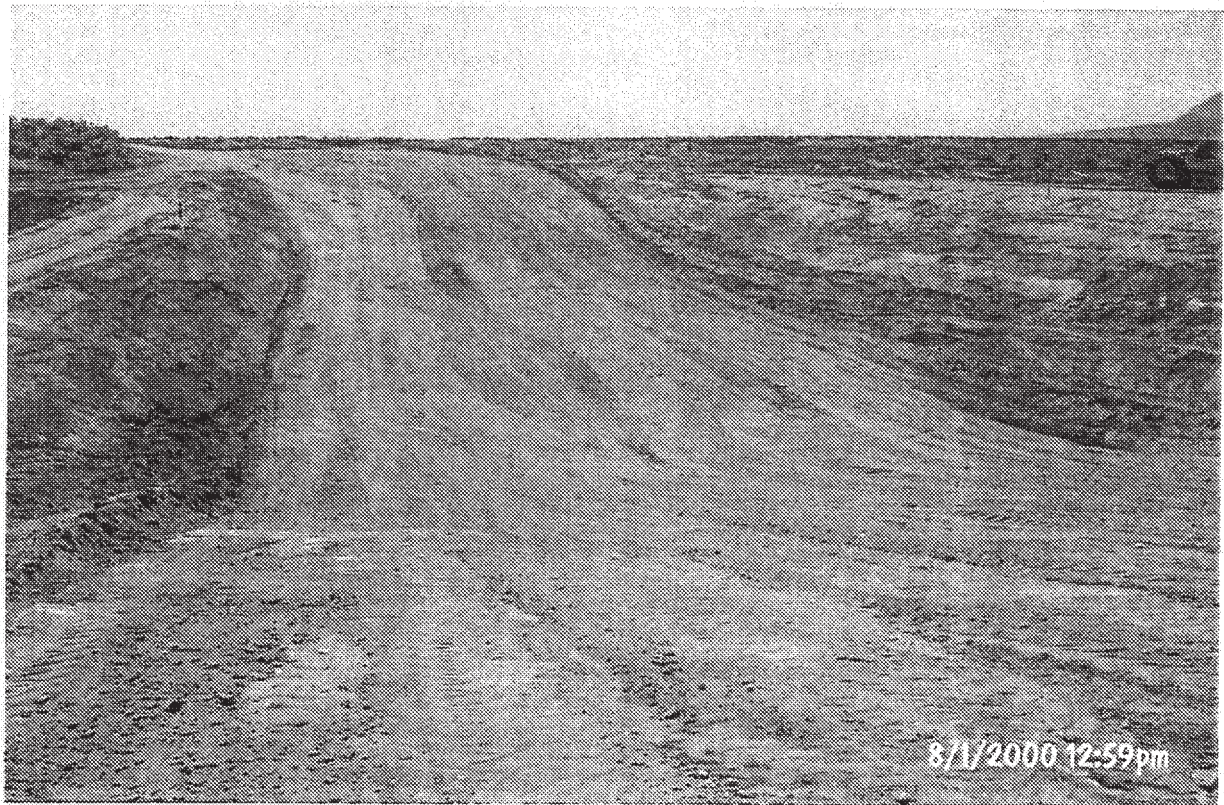
PHOTOGRAPH 4 - First 2 foot lift being place on CMP geogrid



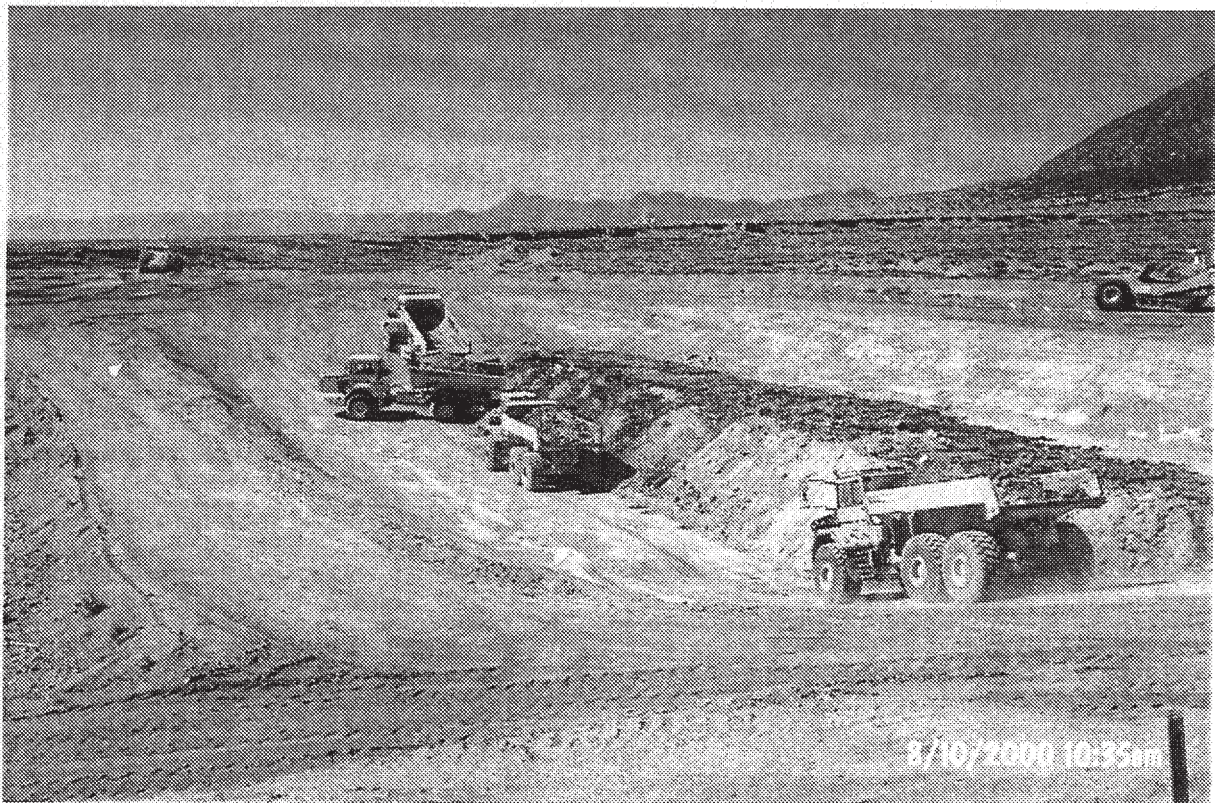
PHOTOGRAPH 5 -Placing the second 2 foot lift on the CMP



PHOTOGRAPH 6 - Excavation of the CMP Mud Relocation Trench



PHOTOGRAPH 7 - Completed CMP Mud Relocation Trench



PHOTOGRAPH 8 - Drilling material from UC-4 Area S being placed in Relocation Trench



PHOTOGRAPH 9 - Stacking drilling material in the Mud Relocation Trench



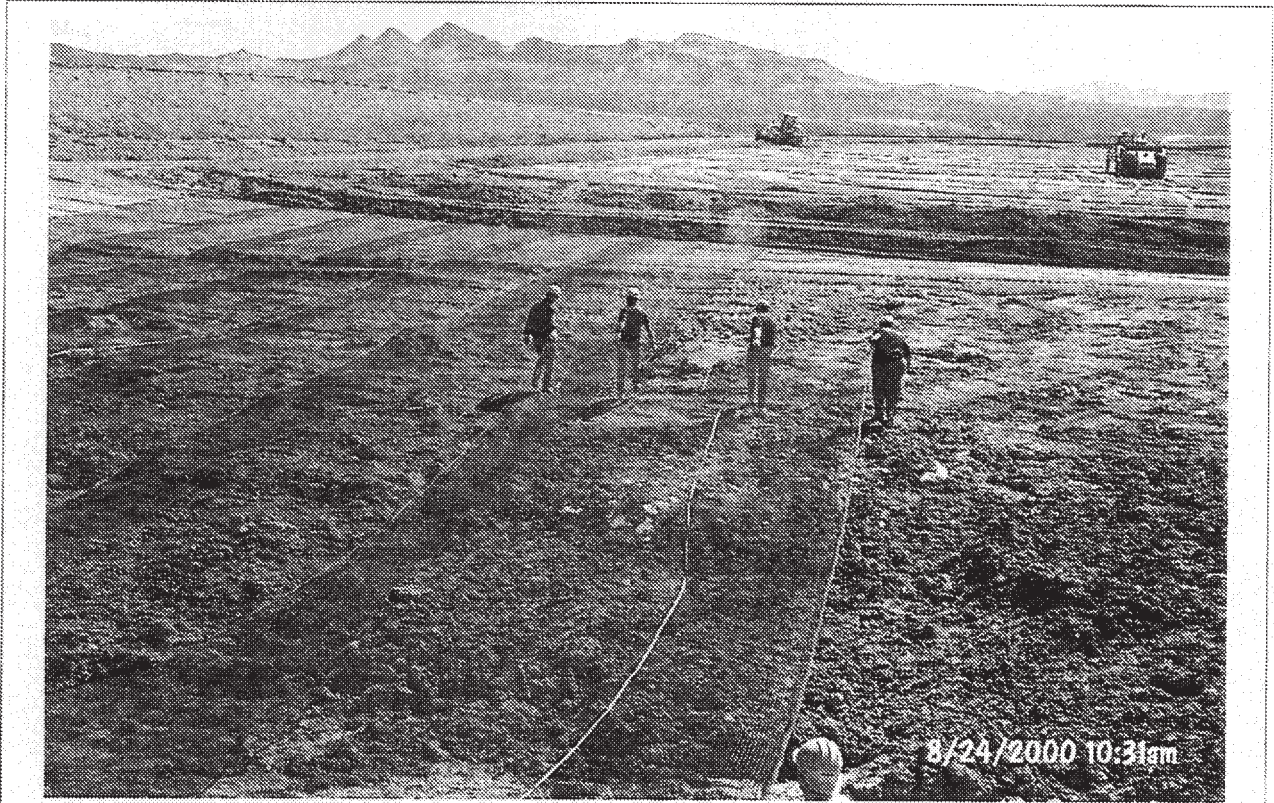
PHOTOGRAPH 10 - Leveling drilling material surface with Track Hoe



PHOTOGRAPH 11 - Filled CMP Mud Relocation Trench



PHOTOGRAPH 12 - Geogrid anchor bench, west side of Mud Relocation Trench



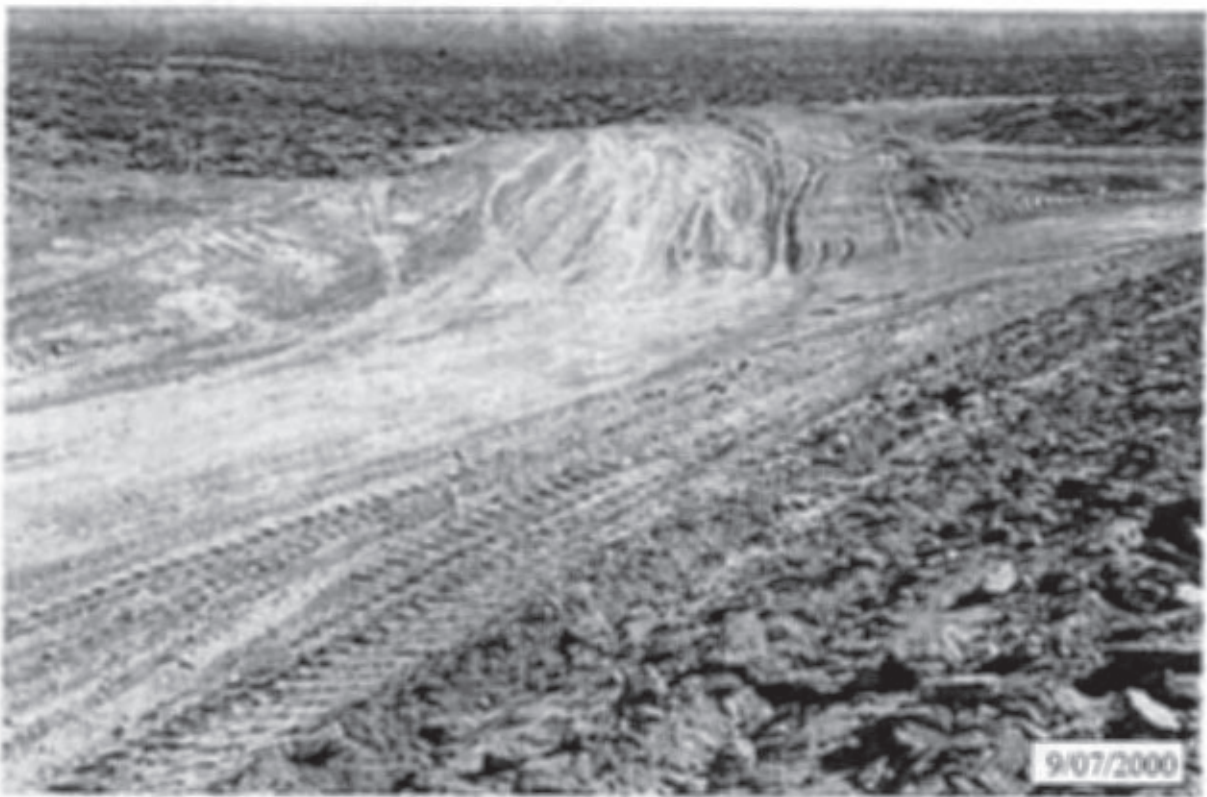
PHOTOGRAPH 13 - Placing geogrid over CMP Mud Relocation Trench



PHOTOGRAPH 14 - Completed 4 foot earthen mono-layer CMP cover



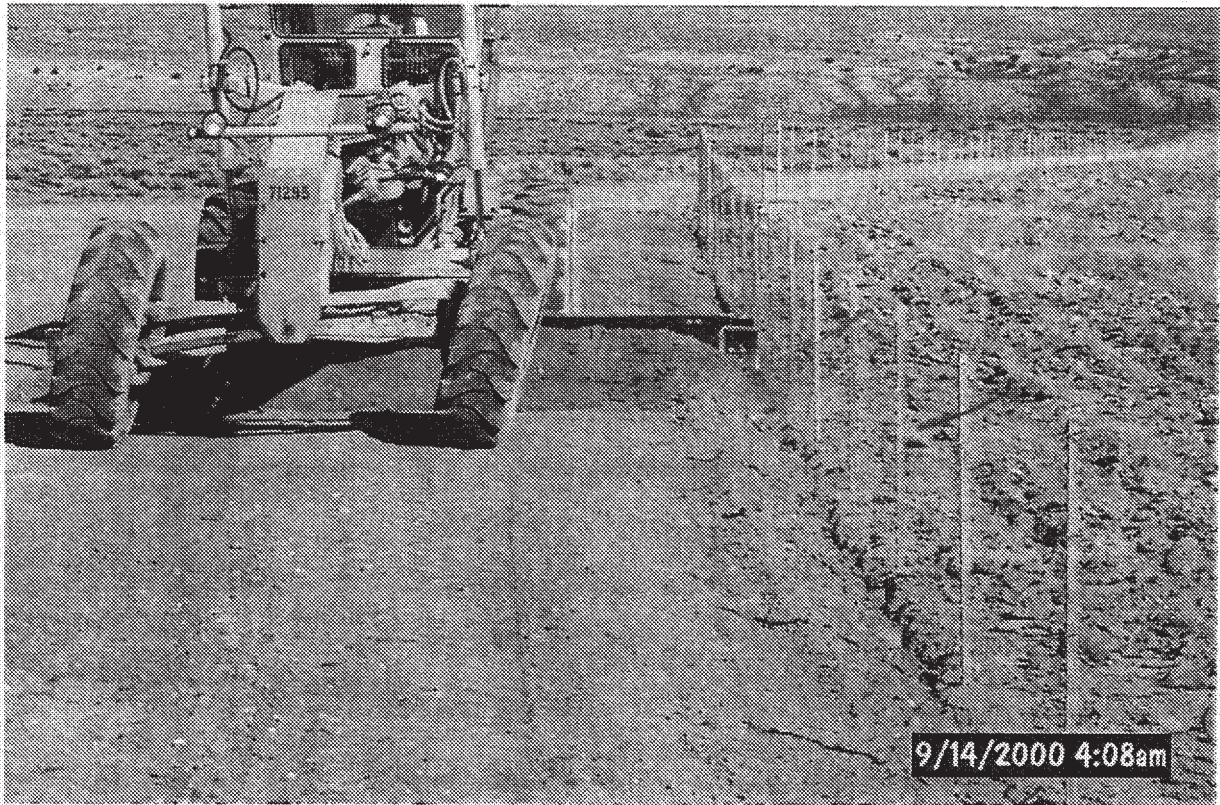
PHOTOGRAPH 15 - South portion of the West Diversion Channel



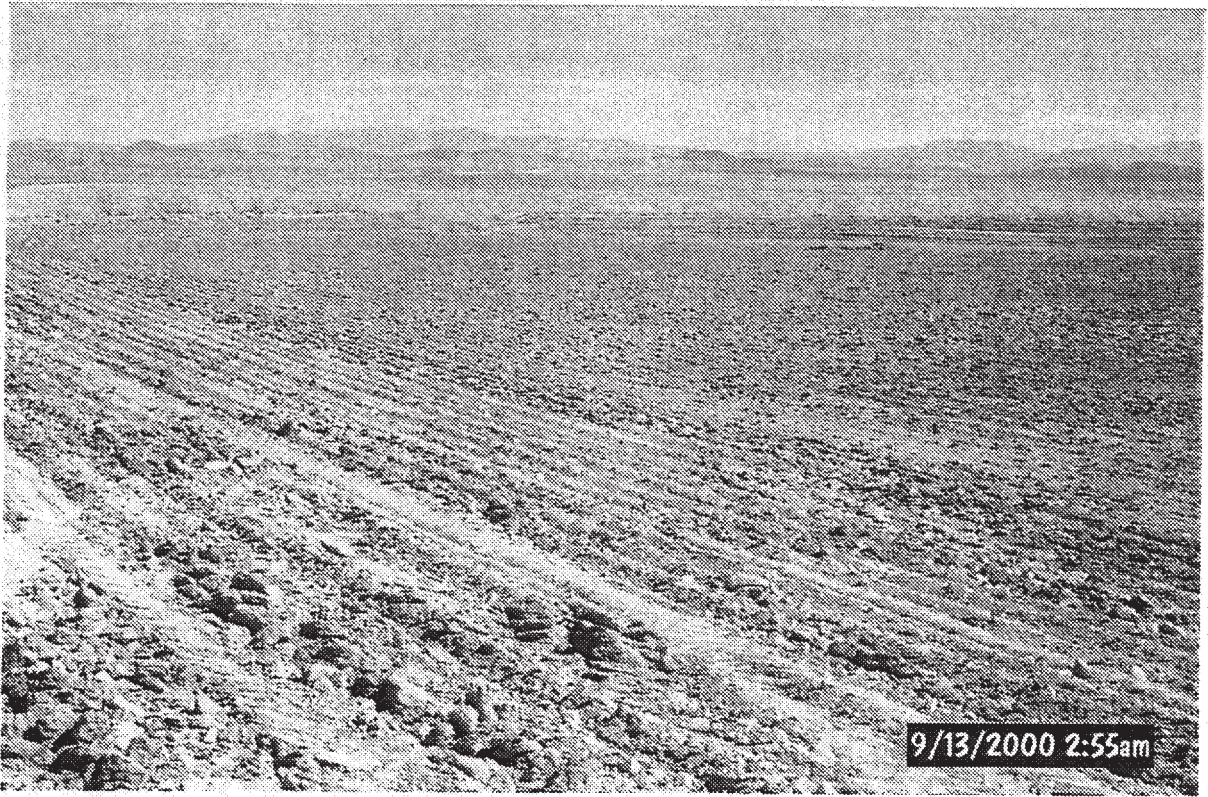
PHOTOGRAPH 16 - Completed East Diversion Channel



PHOTOGRAPH 17 - Erecting the CMP cover fence



PHOTOGRAPH 18 - Burring the wire mesh "bunny" fencing



PHOTOGRAPH 19 - Scarified Central Mud Pit cover



PHOTOGRAPH 20 - Placing subsidence monuments on the CMP cover



PHOTOGRAPH 21 - Installing TDR sensors in CMP cover



PHOTOGRAPH 22 - Placing and burying TDR sensors in CMP cover



PHOTOGRAPH 23 - Seeded CMP cover



PHOTOGRAPH 24 - Transplanting seedlings to the CMP cover



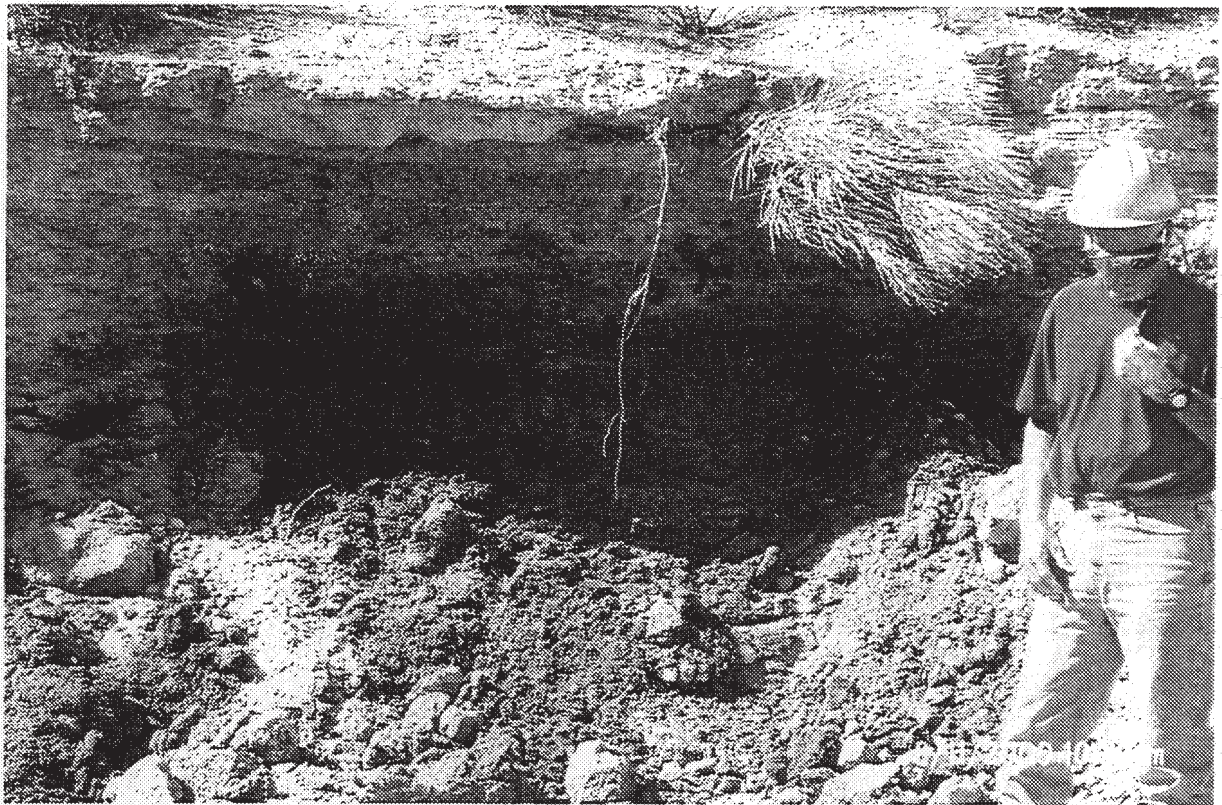
PHOTOGRAPH 25 - Clean closure by excavation of UC-1 Area S, CAS 58-10-03



PHOTOGRAPH 26 - Clean closure by excavation of UC-1 Area Y, CAS 58-44-06



PHOTOGRAPH 27 - Clean closure by excavation of UC-3 Area Z, CAS 58-44-03



PHOTOGRAPH 28 - Drilling mud/material at UC-4 Area S, CAS 58-10-02



PHOTOGRAPH 29 - Drilling mud/material at UC-4 Area S, CAS 58-10-02



PHOTOGRAPH 30 - Drilling mud/material at UC-4 Area S, CAS 58-10-02



PHOTOGRAPH 31 - Final regraded closed UC-4 Area S, CAS 58-10-02



PHOTOGRAPH 32 - Clean closure of UC-4 Area W, CAS 58-10-04

APPENDIX C

**AS-BUILT ENGINEERING DRAWINGS AND DESIGN
CHANGE NOTICES**

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Design Drawing

Design Specification

Date Initiated: 8/14/2000

Document No.: JS-058-98228-C34

Revision No.: 0

Title: West Diversion Channel Plan & Profile

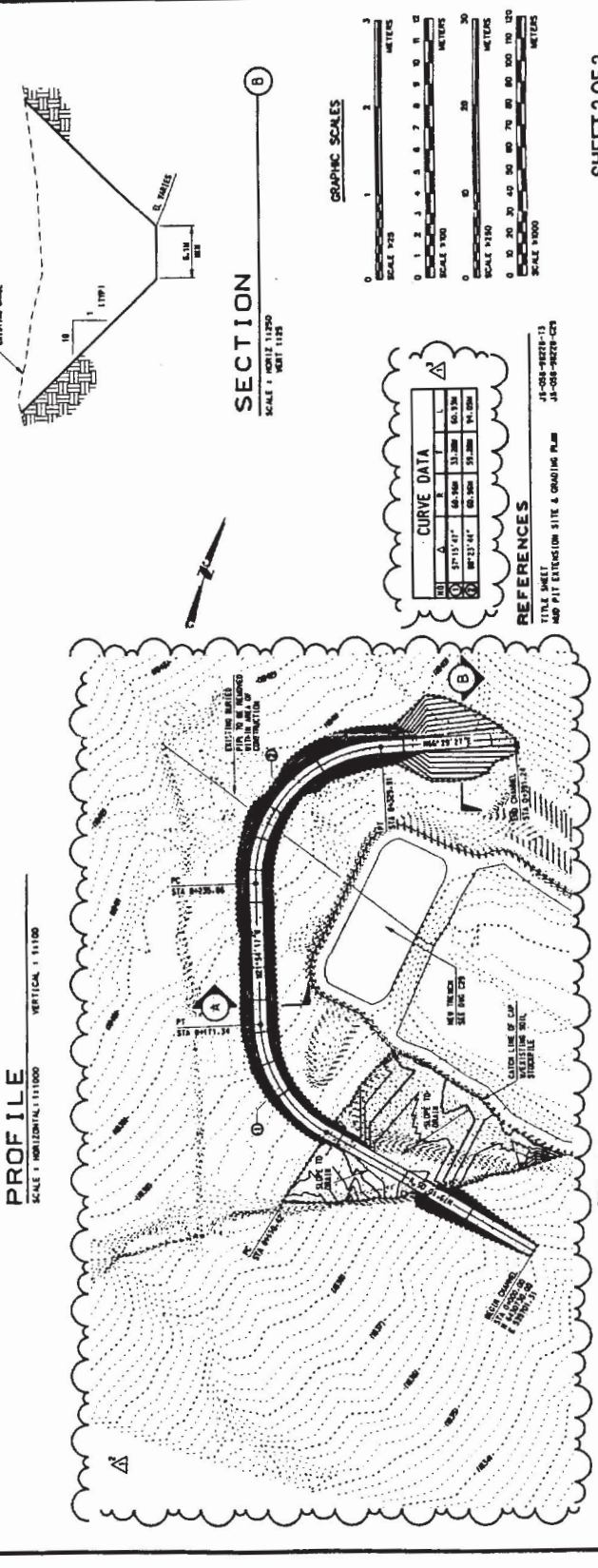
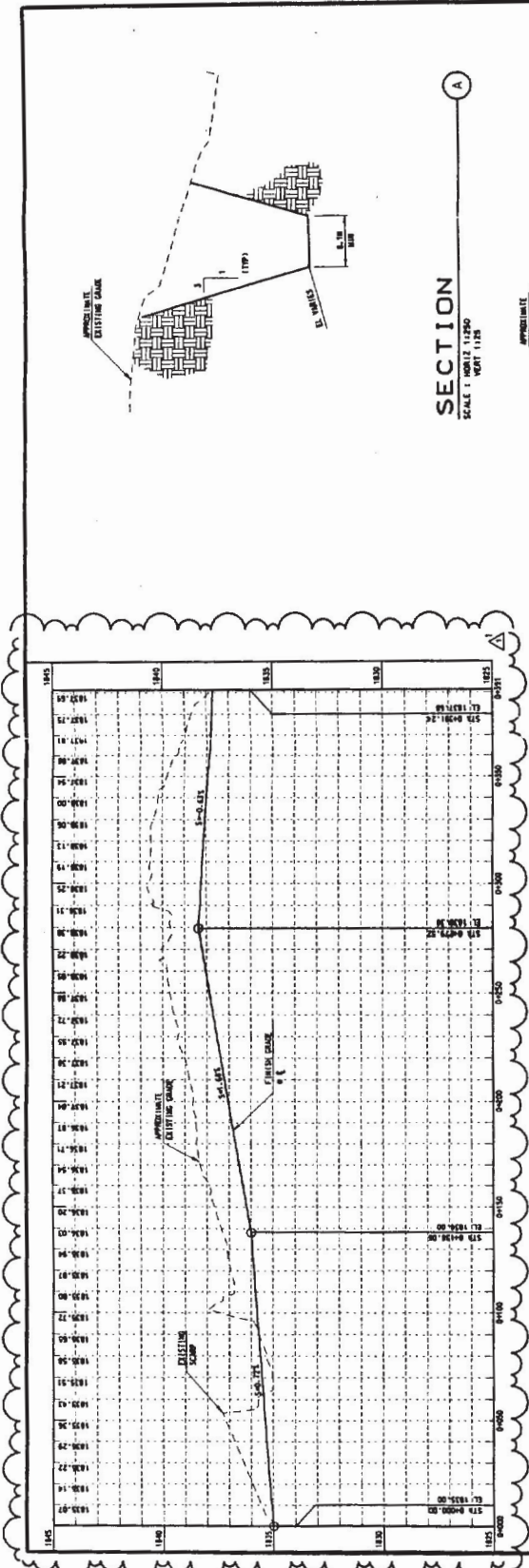
Description of Change:

Reroute the southern portion of the channel to minimize the area that requires disturbance, and reduce the quantity of required excavation. See page 2 for new horizontal and vertical alignment information.

Field placement of excavated soils in a stockpile filling the area between the existing scarp face and the existing berm along the south side of the mud pit, has made it possible to reroute the channel. The new route will pass through this stockpile, and will require grading from both directions into the bottom of the channel (in this area only) to maintain the design drainage scheme (See page 2). Finish grading in this area should be completed after the cap as the finish slope should be away from the intersection line of the cap with the existing berm (similar to Section C, on drawing C33).

Information contained in this DCN was personally conveyed (at the site) to field personnel on 8/2/2000.

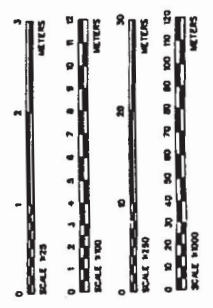
Prepared by: /s/ Signature on file	Date: <u>8/14/00</u>	Checked by: /s/ Signature on file	Date: <u>8/14/00</u>
APPROVALS			
Project Engineer: /s/ Signature on file	Date: <u>8/14/00</u>	Other BN Organizations: (PA, ESS&H, etc.)	Date:
	Date:		Date:
	Date:		Date:
	Date:		Date:



SECTION A
SCALE 1 HORIZONTAL 1:1250 VERTICAL 1:1250

SECTION B
SCALE 1 HORIZONTAL 1:1250 VERTICAL 1:1250

GRAPHIC SCALES



CURVE DATA			
STATION	PC	PT	LC
0+00	0+15.47	0+30.94	0+30.94
0+15.47	0+30.94	0+46.41	0+46.41
0+30.94	0+46.41	0+61.88	0+61.88

REFERENCES
TITLE SHEET
AND PIT EXTENSION SITE & GRADING PLAN
J1-008-0020-13
J1-008-0020-CR

NO.	REV.	DATE	DESCRIPTION
1			AS-BUILT, DATED 02/23/01
2			ISSUED FOR CONSTRUCTION 10/11/00
3			
4			
5			

TDR PROBE EXCAVATION NOTES

1. STOCK PILE EXCAVATED SOILS TO A HEIGHT NOT EXCEEDING 10 FEET (4.57M).
2. EXCAVATION SHALL BE TO THE POINT WHERE THE SLOPE BEGINS TO FLARE. THE SLOPE SHALL BE 1:1 UNLESS SHOWN OTHERWISE. THE SLOPE SHALL BE MAINTAINED THROUGHOUT THE EXCAVATION AND MONITORING STATION EXCAVATIONS.
3. EXCAVATION FOR THE TDR ARRAY SHALL NOT EXCEED A DEPTH OF 4 FEET (1.22M) BELOW THE SURFACE OF THE EXISTING MONITORING STATION. THE EXCAVATION SHALL BE TO THE POINT WHERE THE SLOPE BEGINS TO FLARE. THE SLOPE SHALL BE 1:1 UNLESS SHOWN OTHERWISE. THE SLOPE SHALL BE MAINTAINED THROUGHOUT THE EXCAVATION AND MONITORING STATION EXCAVATIONS.
4. A DITCH WITH OR OTHER SUITABLE EQUIPMENT SHALL BE USED TO EXCAVATE TRENCHES FOR THE TRENCHES SHALL BE A WIDTH OF 1 FOOT (305MM) BELOW THE EXISTING SURFACE.

AS-BUILT INFORMATION

1. SUBMIT SURVEY INSTRUMENT SHOWING COORDINATE LOCATIONS FOR THE TDR PROBES, BIRLING PILES, AND THE MONITORING STATION AS SHOWN ON THE EXISTING DRAWINGS.

GENERAL NOTES

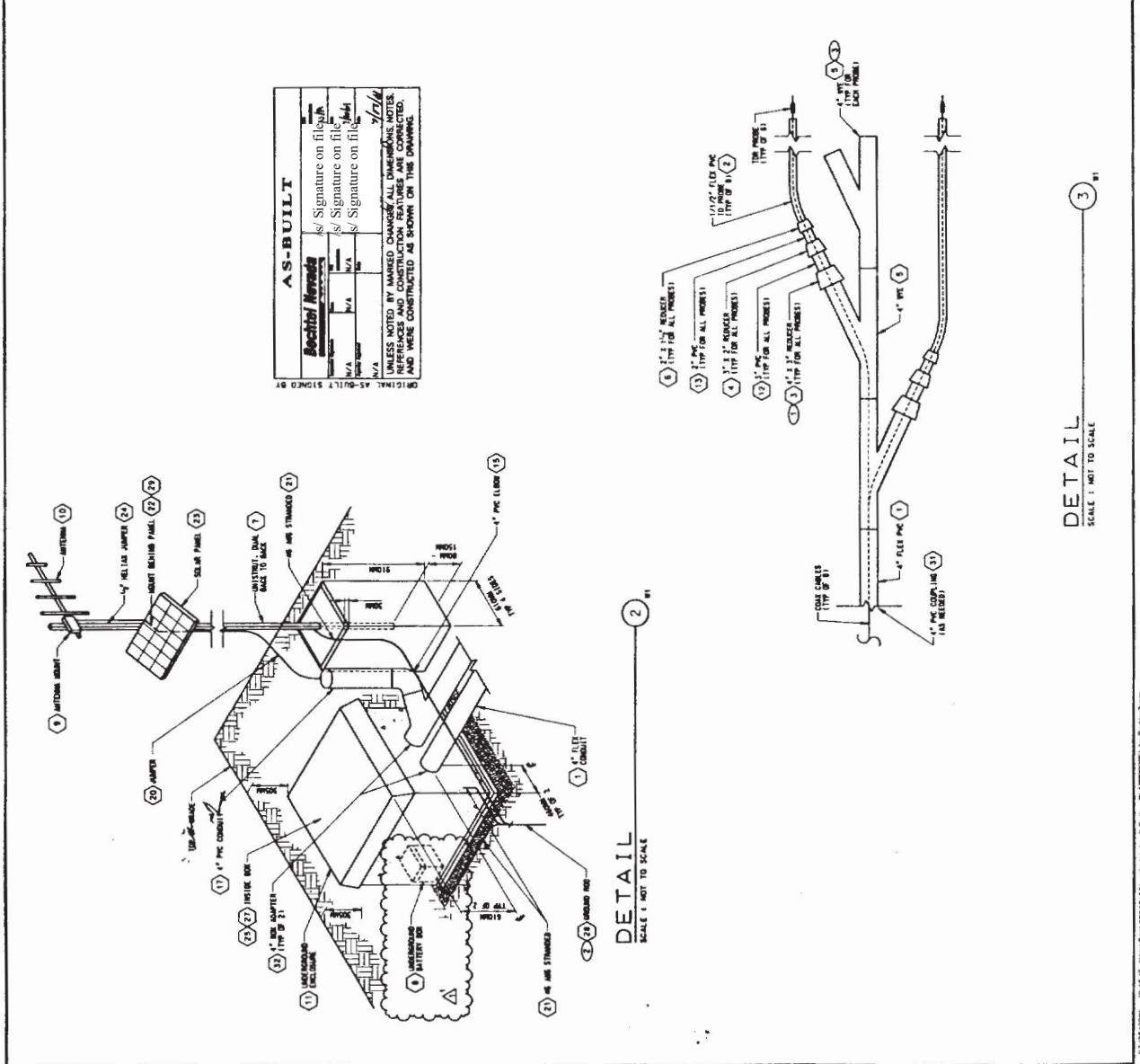
1. BACKFILL MATERIAL SHALL BE NATIVE SOILS EXCAVATED FROM THE SAME DOMAIN REFLECTOMETRY SENSOR TDR PROBE AND MONITORING STATION LOCATIONS SHOWN ON DRAWING 91.
2. TRENCHES SHALL BE BACKFILLED AND COMPACTED TO PREVENT WATER INGRESS. TRENCHES SHALL BE BACKFILLED AND COMPACTED TO PREVENT WATER INGRESS.
3. BACKFILL EXCAVATIONS IN 1 FOOT (305MM) MAXIMUM COMPACTED LIFTS.
4. INSTALLATION, ACCEPTANCE, AND COMPLETION OF TDR PROBE AND MONITORING STATION EXCAVATIONS WILL BE DONE BY FIELD TECHNICIANS TO MATCH EXISTING CONDITIONS.
5. COMPACTION TESTING FOR ACCEPTANCE IS NOT REQUIRED.

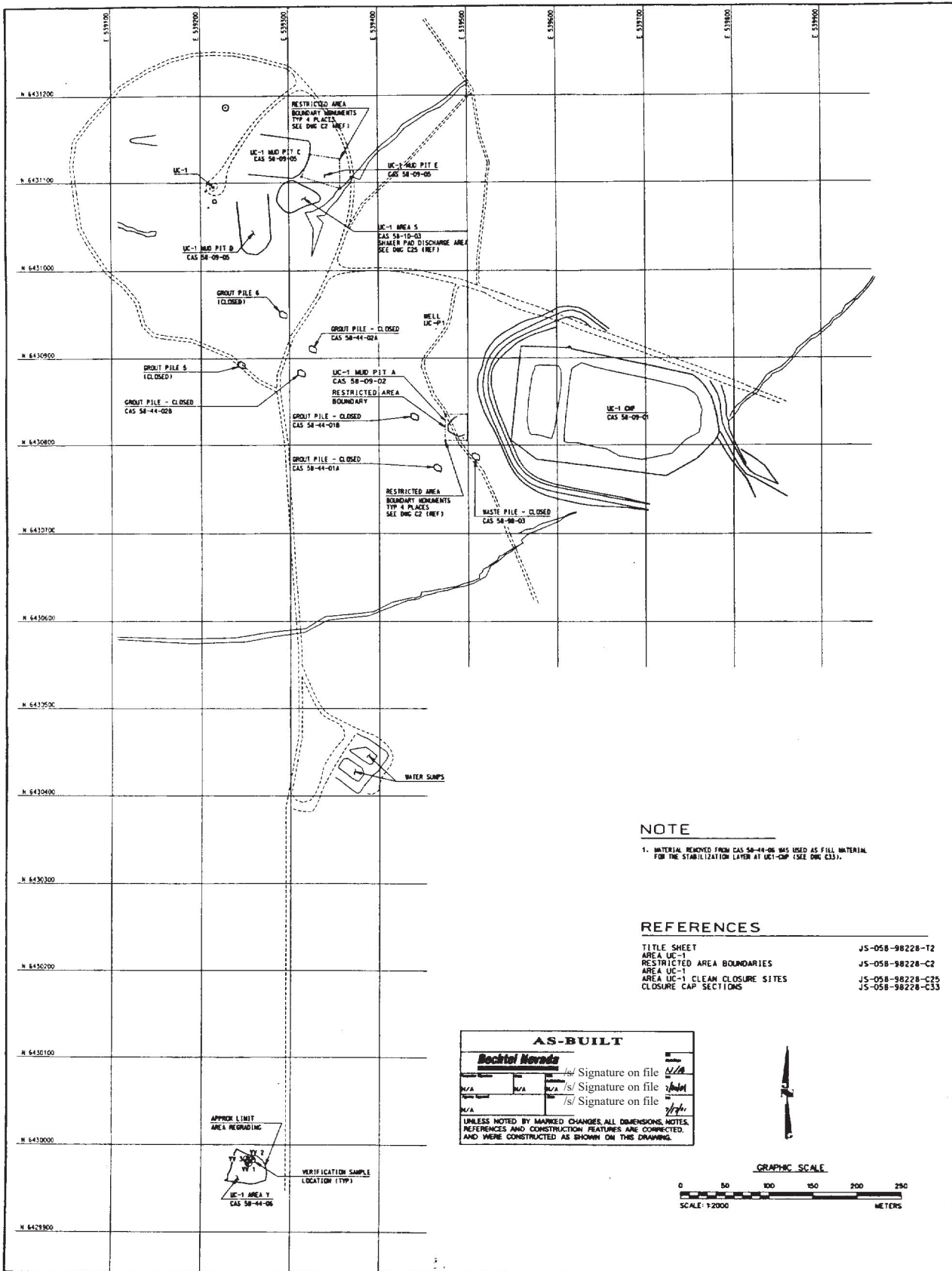
KEY NOTES

1. USE 4" W/CS AS NEEDED TO REDUCE WIDTH OF TRENCH.
2. CONNECTION TO GROUND ROD SHALL BE MADE USING AN ELECTROLYTIC WELD.
3. ADD 4" W/CS (ITEM 3) AS NEEDED TO ACCOMMODATE 8 PROBES.

REFERENCES

COMMUNICATION SITE PLAN
J5-004-90228-81





NOTE

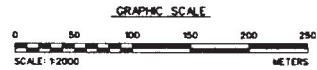
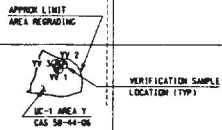
1. MATERIAL REMOVED FROM CAS 58-44-06 WAS USED AS FILL MATERIAL FOR THE STABILIZATION LAYER AT UC1-CMP (SEE DWG. C33).

REFERENCES

TITLE SHEET	JS-058-98228-T2
AREA UC-1	JS-058-98228-C2
RESTRICTED AREA BOUNDARIES	JS-058-98228-C25
AREA UC-1 CLEAN CLOSURE SITES	JS-058-98228-C25
CLOSURE CAP SECTIONS	JS-058-98228-C33

AS-BUILT			
Bechtel Nevada			
Checked by	Drawn by	Reviewed by	Signature on file
N/A	N/A	N/A	/s/ [Signature]
Checked by	Drawn by	Reviewed by	Signature on file
N/A	N/A	N/A	/s/ [Signature]
Checked by	Drawn by	Reviewed by	Signature on file
N/A	N/A	N/A	/s/ [Signature]

UNLESS NOTED BY MARKED CHANGES, ALL DIMENSIONS, NOTES, REFERENCES AND CONSTRUCTION FEATURES ARE CORRECTED, AND WERE CONSTRUCTED AS SHOWN ON THIS DRAWING.



<p>U. S. DEPARTMENT OF ENERGY</p> <p>REGIONAL OPERATING OFFICE</p> <p>Las Vegas, Nevada</p> <p>Bechtel Nevada</p>	<p>CENTRAL NEVADA TEST AREA — AREA 50</p> <p>CAU 417 CLOSURE</p> <p>AREA UC-1</p> <p>AREA Y CLEAN CLOSURE SITE</p>	<p>DESIGNED BY</p> <p>JAS</p>	<p>DATE</p> <p>10/10</p>	<p>PROJECT NUMBER</p> <p>18228259</p>	<p>ACTIVITY CODE</p> <p>C6501200</p>	<p>DATE</p> <p>4/16/01</p>	<p>AS-BUILT DATED 4/16/01</p>	<p>REVISION DESCRIPTION</p>
		<p>CHECKED BY</p> <p>N/A</p>	<p>DATE</p> <p>7/14/01</p>					

WARNING
 PETROLEUM IMPACTED SOIL -
 NO EXCAVATION, DRILLING
 AND/OR REMOVAL OF THE
 MATERIALS IS PERMITTED.

U.S. DEPARTMENT OF ENERGY
 BECHTEL NEVADA
 1000 W. CLAYTON AVENUE
 LAS VEGAS, NV 89102-3000

SIGN DETAIL
 NOT TO SCALE

SIGN NOTES

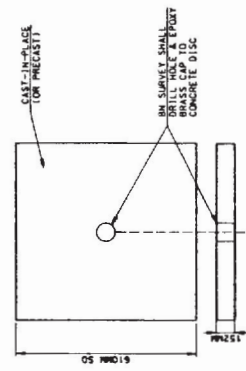
1. THIS DETAIL APPLIES TO SIGNS ON FENCE ONLY
2. SIGN IS WHITE WITH BLACK LETTERING.
3. MINIMUM LETTER/WORD HEIGHT IS:
 INFORMATION - 30MM
 CONTACT - 19MM
4. SIGN STOCK THICKNESS IS 16 GAUGE/0.0438
 OR GREATER

FENCE NOTES

1. FENCING MEETS THE REQUIREMENTS OF SPECIFICATION SECTION 02831.
2. ALL FENCING COMPONENT DIMENSIONS SHOWN ARE NOMINAL. SEE NOTE 1.

REFERENCES

TITLE SHEET JS-058-99228-T2
 CLOSURE CAP SITE & GRADING PLAN JS-058-99228-C32
 CONSTRUCTION SPECIFICATION FOR CAU 417
 REMEDIATION UCI-CMP, SECTION 02831 SP-98228ASB-C0009.0



CONCRETE MONUMENT DETAIL
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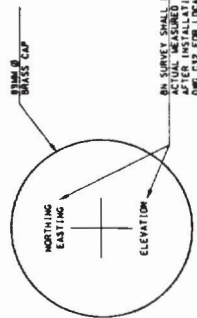
DETAIL NOTES

1. DETAIL 2 - SHOWS CONTROLLED DIMENSIONS FOR MONUMENT.
2. DETAIL 4 - FORM CAST-IN-PLACE CONCRETE MONUMENT TO THE DIMENSIONS SHOWN.

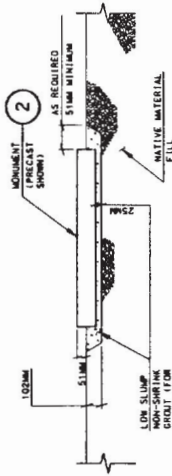
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Bechtel Nevada	Signature on file	Date
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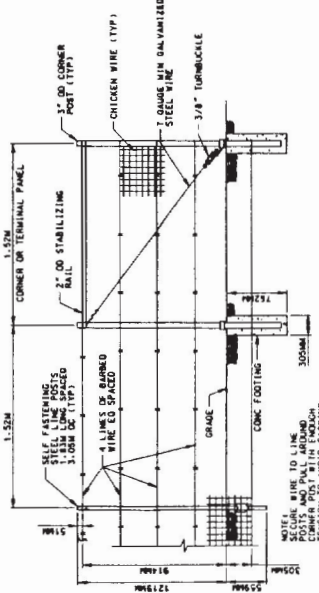
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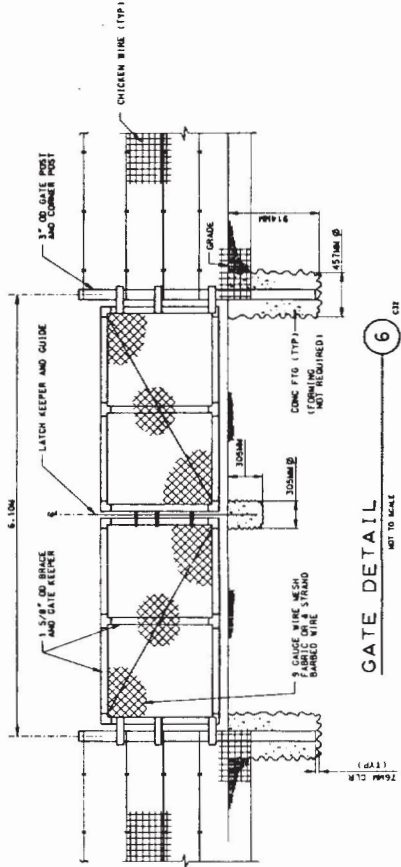
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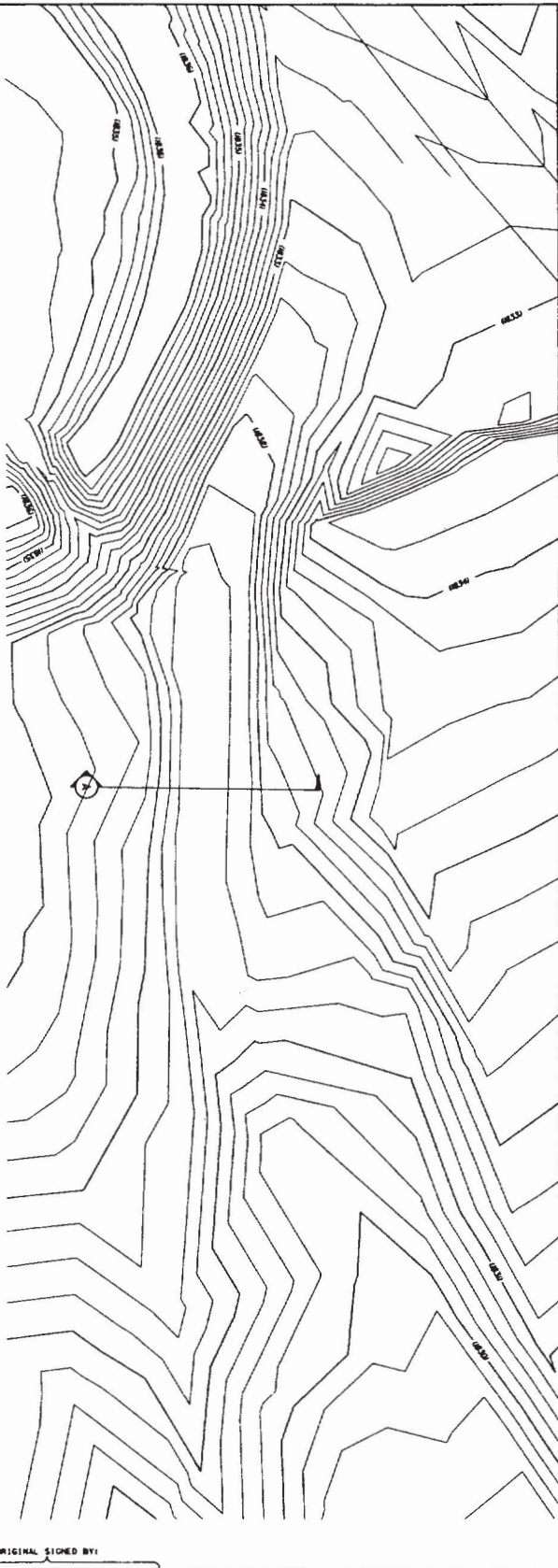
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3 WIRE FENCE
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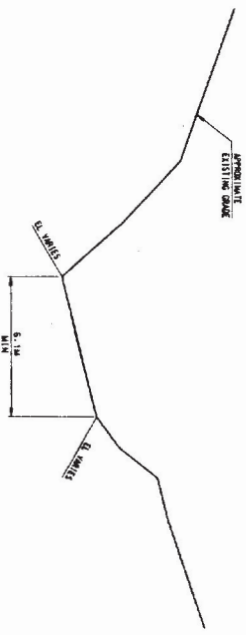


GATE DETAIL
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PLAN
SCALE 1:11250

SECTION
SCALE: HORIZONTAL: 1:1100
VERTICAL: 1:1120



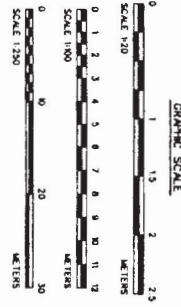
REFERENCES

TITLE SHEET
CONSTRUCTION SPECIFICATIONS FOR CAU 417
RENOVATION UCT-CAP CLOSURE, SECTION 02222 SP-9828458-C0009.0

AS-BUILT

By	TS	Signature on file	TS	Signature on file
Check	TS	Signature on file	TS	Signature on file
Drawn	TS	Signature on file	TS	Signature on file
Checked	TS	Signature on file	TS	Signature on file
Approved	TS	Signature on file	TS	Signature on file

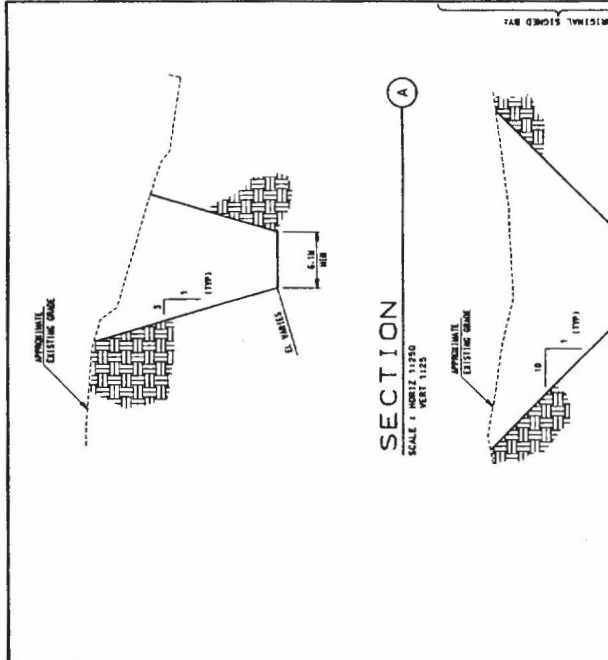
UNLESS NOTED BY MARKED DIMENSIONS, ALL DIMENSIONS, NOTES AND WHEN CONSTRUCTED AS SHOWN ON THIS DRAWING.



ORIGINAL SIGNED BY:

<p>U.S. DEPARTMENT OF ENERGY CENTRAL NEVADA TEST AREA AREA 58 EAST DIVERSION CHANNEL GRADING PLAN</p>	<p>DESIGNED BY: MDJ 4/9/00</p> <p>DRAWN BY: MDJ 4/9/00</p> <p>CHECKED BY: JAS 4/9/00</p> <p>APPROVED BY: N/A 4/7/00</p>	<p>ISSUED BY: MDJ 4/9/00</p> <p>DATE: 4/9/00</p> <p>REVISION: 1</p> <p>REVISION DESCRIPTION: REVISED & REDRAWN AS-BUILT DATED 4/18/01</p> <p>ISSUED FOR CONSTRUCTION 04/09/00</p>	<p>PROJECT NUMBER: 9828458</p> <p>PROJECT AREA: CAU 417</p> <p>PROJECT TITLE: EAST DIVERSION CHANNEL GRADING PLAN</p>
	<p>PROJECT NUMBER: 9828458</p> <p>PROJECT AREA: CAU 417</p> <p>PROJECT TITLE: EAST DIVERSION CHANNEL GRADING PLAN</p>	<p>PROJECT NUMBER: 9828458</p> <p>PROJECT AREA: CAU 417</p> <p>PROJECT TITLE: EAST DIVERSION CHANNEL GRADING PLAN</p>	<p>PROJECT NUMBER: 9828458</p> <p>PROJECT AREA: CAU 417</p> <p>PROJECT TITLE: EAST DIVERSION CHANNEL GRADING PLAN</p>

U.S. DEPARTMENT OF ENERGY Bechtel Nevada 1000 WEST WASHINGTON STREET, SUITE 100 LAS VEGAS, NEVADA 89102		CENTRAL NEVADA TEST AREA AREA 58 CAW 417 CLOSURE WEST DIVERSION CHANNEL PLAN & PROFILE	
PROJECT NO. N/A PROJECT NAME N/A CONTRACT NO. N/A CONTRACT DATE 4/7/00 ISSUED FOR CONSTRUCTION 04/05/00 AS-BUILT DATED 4/16/01 REVISION DESCRIPTION NO. DATE 1 04/16/01 2 04/16/01 3 04/16/01 4 04/16/01 5 04/16/01 6 04/16/01 7 04/16/01 8 04/16/01 9 04/16/01 10 04/16/01	DESIGNER CHECKED DRAWN DATE 4/16/01 TITLE SHEET PROJECT ENGINEER PROJECT NO. N/A SHEET NO. 58 SHEET TOTAL 58 DATE 4/16/01 DESIGNED BY CHECKED BY DRAWN BY ORIGINAL STORED BY	TITLE SHEET MAP FIT EXTENSION SITE & GRADING PLAN J5-004-00228-72 J5-004-00228-C28	PROJECT NO. N/A PROJECT NAME N/A CONTRACT NO. N/A CONTRACT DATE 4/7/00 ISSUED FOR CONSTRUCTION 04/05/00 AS-BUILT DATED 4/16/01 REVISION DESCRIPTION NO. DATE 1 04/16/01 2 04/16/01 3 04/16/01 4 04/16/01 5 04/16/01 6 04/16/01 7 04/16/01 8 04/16/01 9 04/16/01 10 04/16/01



NO.	DESCRIPTION	PC	PT	LC	LC	LC
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2	10°23'44"	60.25M	27.25M	21.00M		

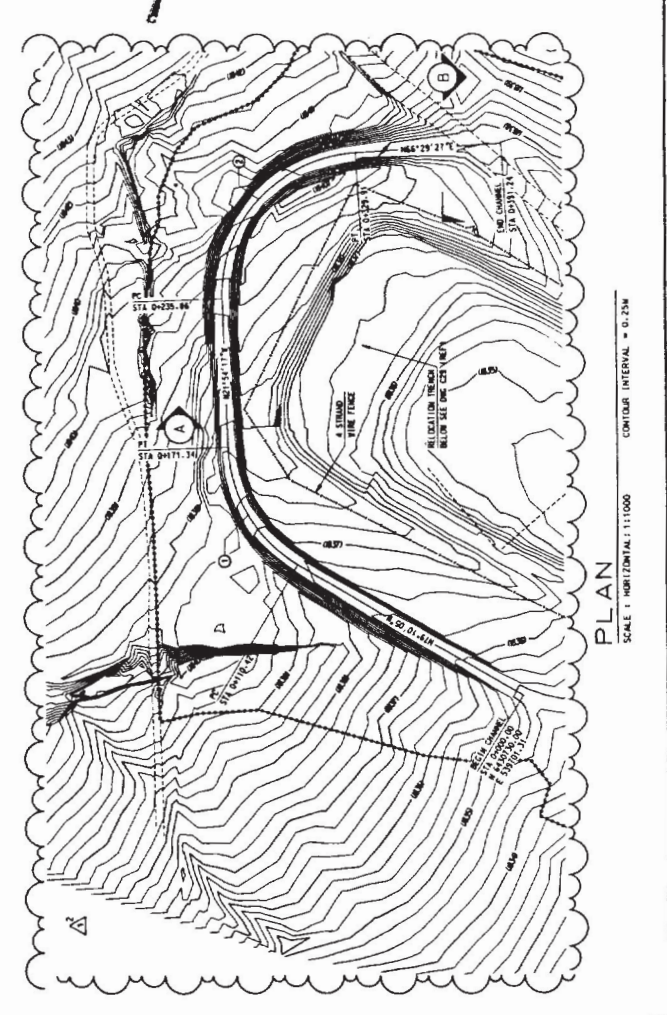
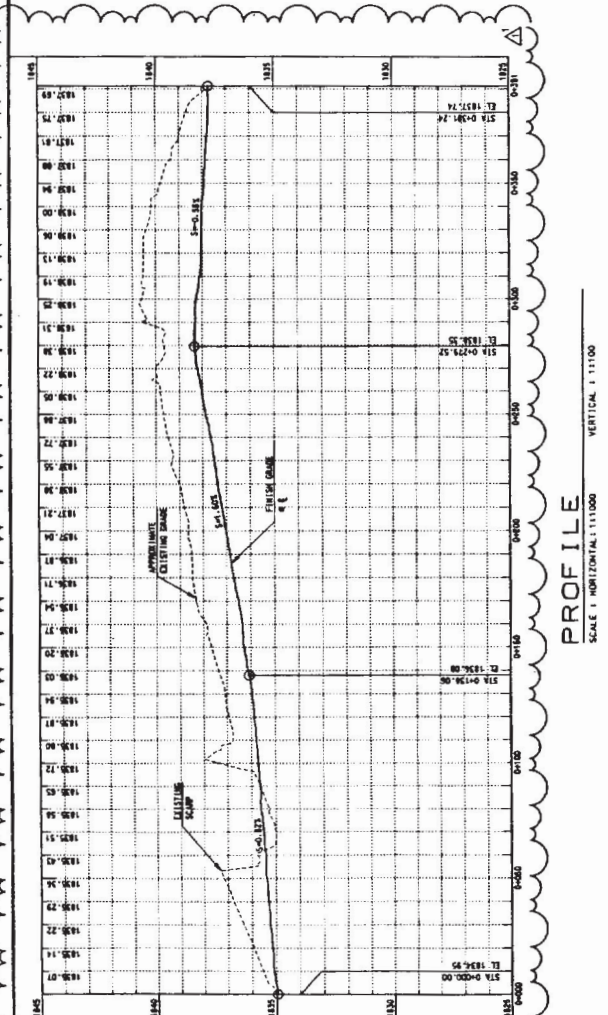
GRAPHIC SCALES

SCALE 1:250 METERS

SCALE 1:500 METERS

SCALE 1:250 METERS

SCALE 1:500 METERS

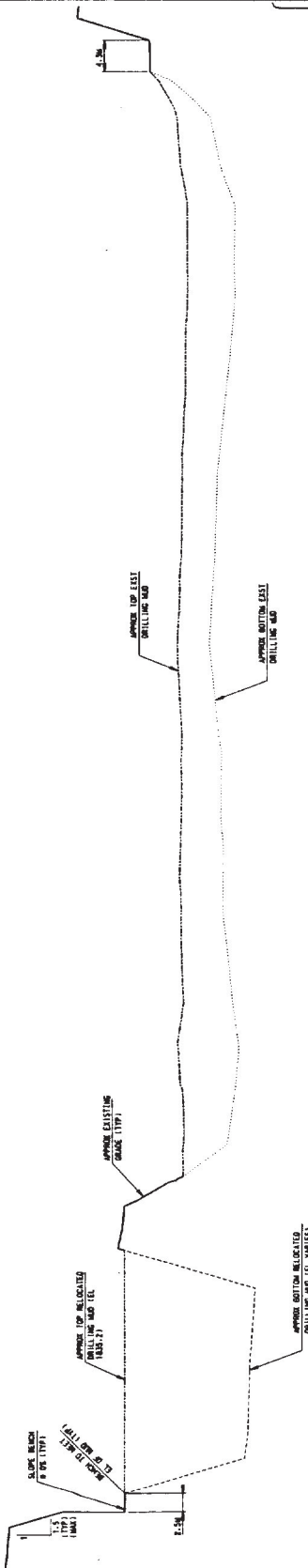


U.S. DEPARTMENT OF ENERGY CENTRAL NEVADA TEST AREA CAU 417 CLOSURE GEORRID BENCH SECTIONS		BECHTEL NEVADA 1400 WEST WASHINGTON STREET LAS VEGAS, NEVADA 89102		PROJECT NO. JS-068-98228-C31 SHEET NO. 1
CONTRACT NO. N/A CONTRACT DATE 04/09/00 CONTRACT VALUE \$1,000,000	PROJECT NO. N/A PROJECT DATE N/A PROJECT VALUE N/A	DESIGNER CHECKED DATE	DRAWN BY DATE	SCALE UNIT
ISSUED FOR CONSTRUCTION 04/09/00 AS-BUILT DATED 4/19/01 REVISIONS & REVISION DATE BY	DATE BY	DATE BY	DATE BY	DATE BY

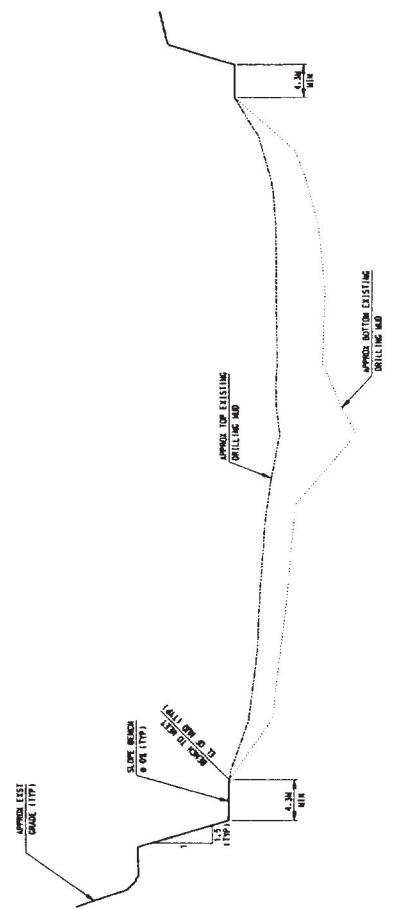
REFERENCES

TITLE SHEET
 GEORRID BENCH
 GRADING PLAN & SECTIONS
 GEORRID BENCH SITE & GRADING PLAN
 CONSTRUCTION SPECIFICATIONS FOR CAU 417
 REMEDIATION UCT-CAMP CLOSURE, SECTION 02222 SP-98228AS8-00009.0

JS-068-98228-T2
 JS-068-98228-C29
 JS-068-98228-C30
 JS-068-98228-C31



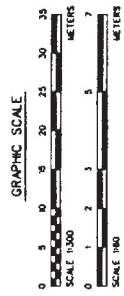
SECTION A
 SCALE: HORIZ. = 1:1,000
 VERT. = 1:100



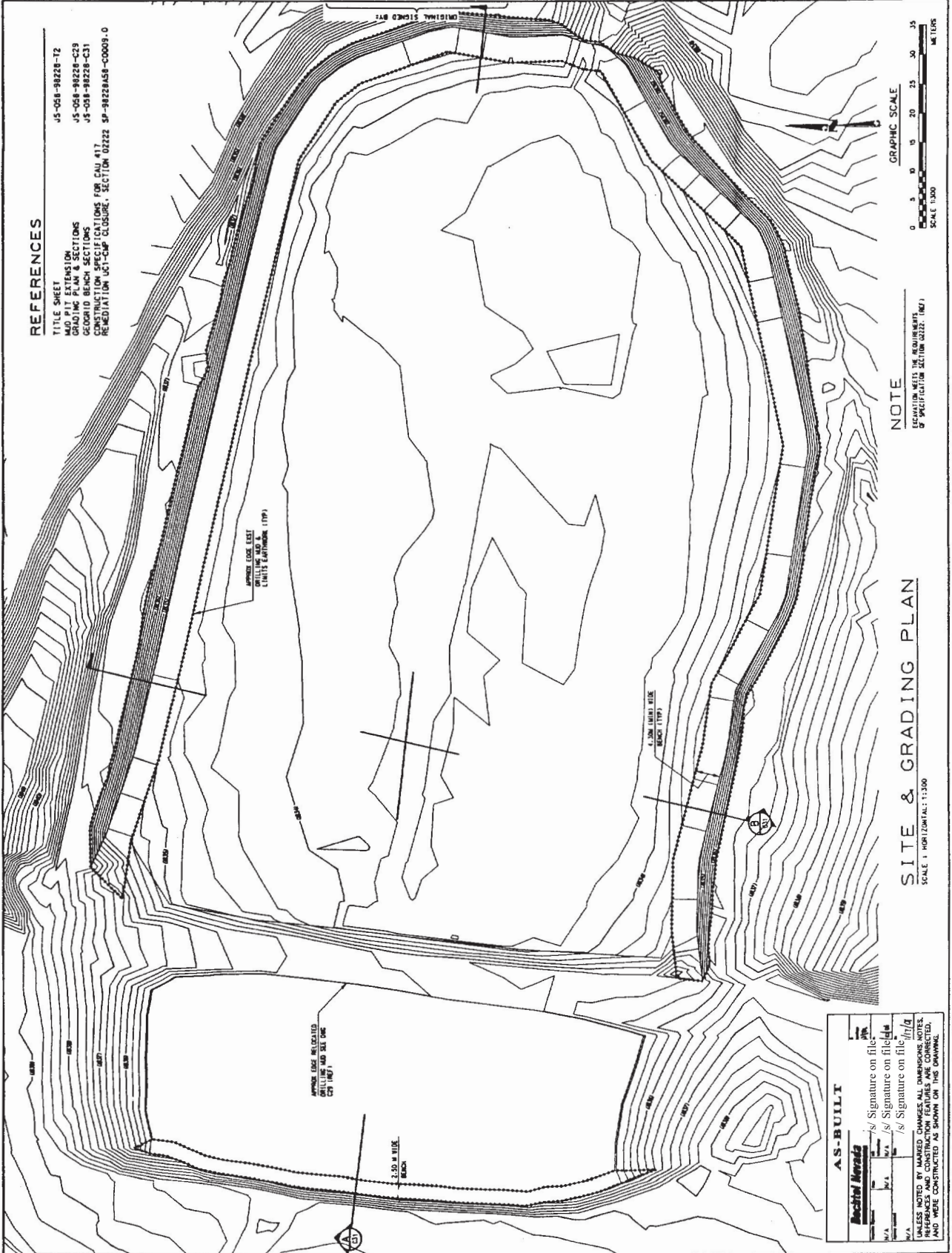
SECTION B
 SCALE: HORIZ. = 1:1,000
 VERT. = 1:100

AS-BUILT	
BECHTEL NEVADA PROJECT NO. N/A PROJECT DATE N/A PROJECT VALUE N/A	S/ Signature on file S/ Signature on file S/ Signature on file

UNLESS NOTED BY MARKED CHANGES ALL DIMENSIONS, NOTES, REFERENCES AND CONSTRUCTION FEATURES ARE CONNECTED AND WERE CONSTRUCTED AS SHOWN ON THIS DOCUMENT.



NO.	DATE	DESCRIPTION	BY	CHECKED
1	08/17/01	ISSUED FOR CONSTRUCTION 04/25/00		
2	08/17/01	AS-BUILT DATED 4/18/01		
3	08/17/01	REVISIONS & REVISIONS		



- REFERENCES**
- JS-058-98228-T2 TITLE SHEET
 - JS-058-98228-M2 MOD PIT EXTENSION
 - JS-058-98228-C23 GRADING PLAN & SECTIONS
 - JS-058-98228-C31 GEOROID BENCH SECTIONS
 - CONSTRUCTION SPECIFICATIONS FOR CAU 417
 - REMEDIAL ACTION UNIT-CAP CLOSURE, SECTION 012222 SP-98228A58-C0005.0

APPROX. LEVEE HEIGHT
 CHILLING AND SEE ONE
 (11'11")

4.50 M WIDE
 ROCK BENCH

4.50 M WIDE ROCK BENCH (TYP)



NOTE

CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS TO THE CONTRACT DOCUMENTS.

SITE & GRADING PLAN

SCALE 1:1200 (VERTICAL: 1:1200)

AS-BUILT

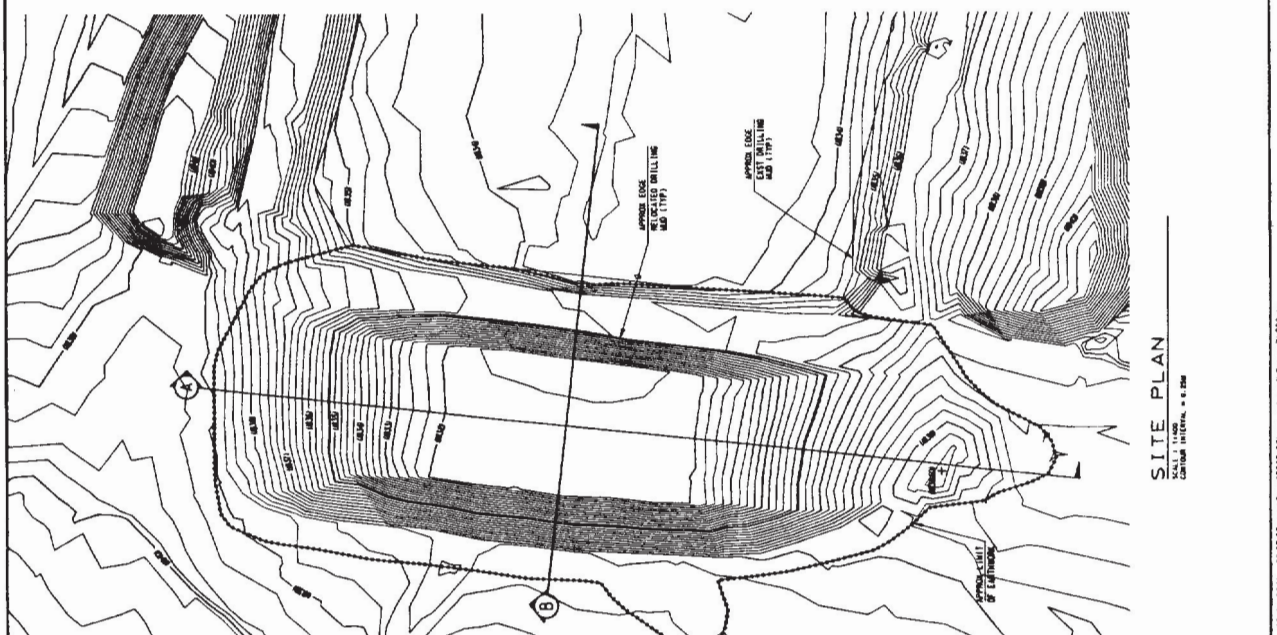
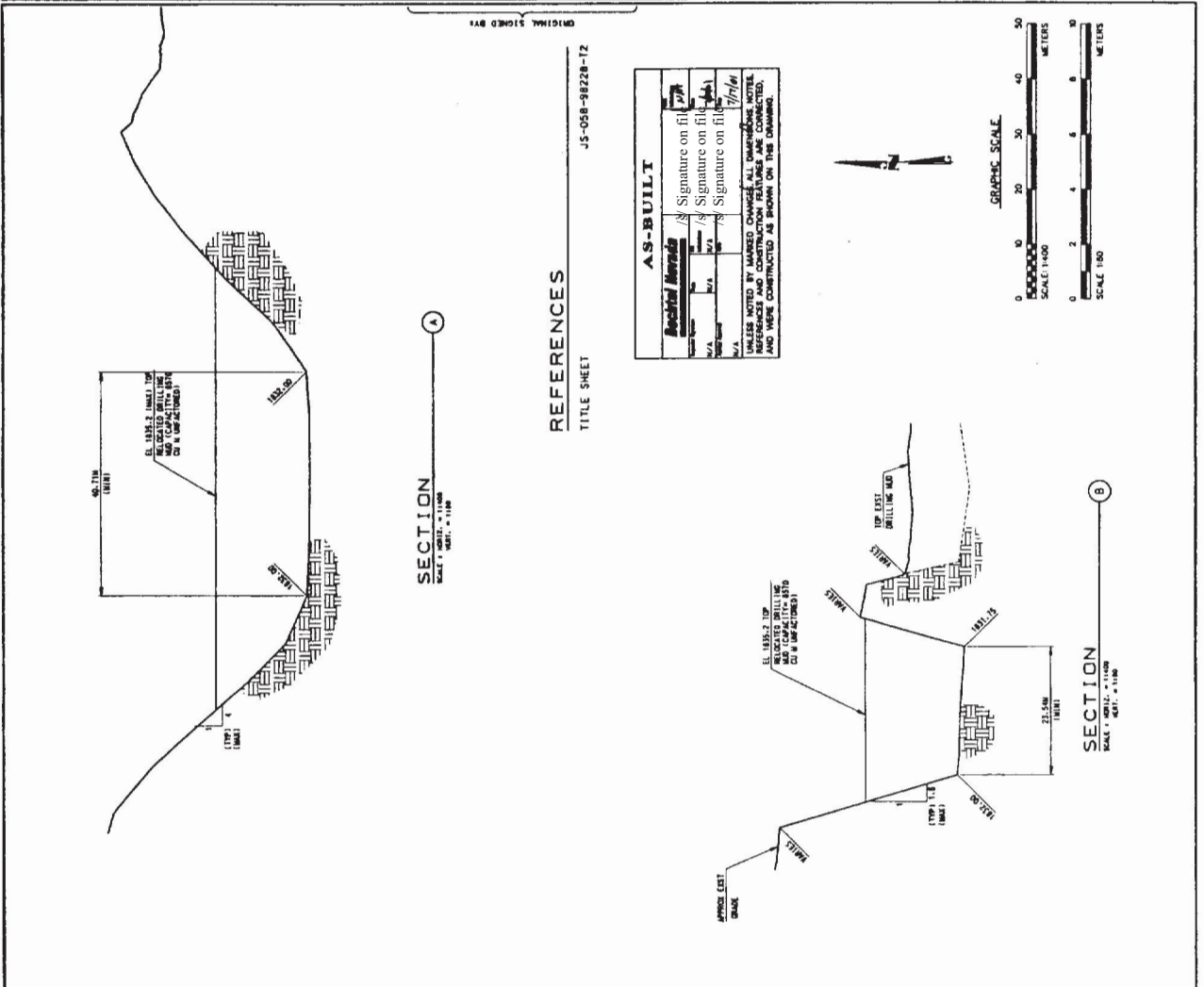
Bechtel Nevada

Signature on file
 Signature on file
 Signature on file

UNLESS NOTED BY MARKED CHANGES ALL DIMENSIONS, NOTES, REFERENCES AND CONSTRUCTION FEATURES ARE CORRECTED AND WERE CONSTRUCTED AS SHOWN ON THIS DRAWING.

07/06/2001 09:37:38 AM \\pva\08228a58\user\08228a58\08228a58.dwg

		U.S. DEPARTMENT OF ENERGY CENTRAL NEVADA TEST AREA - AREA 50 CAU 417 CLOSURE MUD PIT EXTENSION GRADING PLAN & SECTIONS	
PROJECT NO. 98228-12 SHEET NO. 1108 DATE 4/17/00	DESIGNER MICHAEL SMITH 4/6/00	CHECKER L. E. SCHORER 4/6/00	APPROVED FOR CONSTRUCTION 4/20/00
CONTRACT NO. N/A PROJECT NO. N/A SHEET NO. N/A	CONTRACTOR N/A	SUBMITTER N/A	REVIEWED & REDESIGNED 4/16/00



AS-BUILT
 Signature on file [initials]
 Signature on file [initials]
 Signature on file [initials]
 UNLESS NOTED BY MARKED CHANGES ALL DIMENSIONS, NOTES, REFERENCES AND CONSTRUCTION FEATURES ARE CONNECTED AND HERE CONSTRUCTED AS SHOWN ON THIS DRAWING.

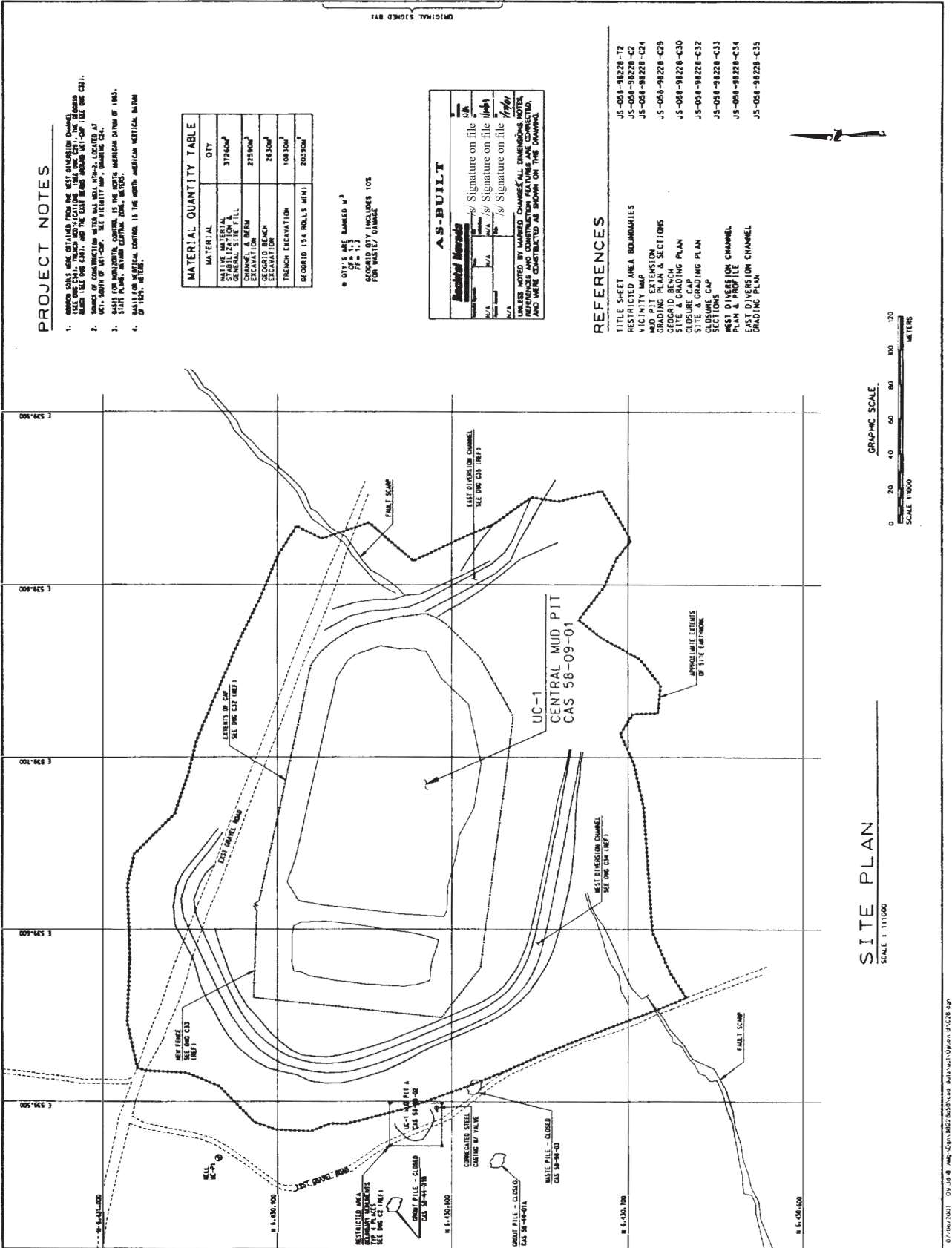
REFERENCES
 TITLE SHEET
 JS-058-98228-12

SECTION 7
 SCALE: HORIZ. = 1"=100'
 VERT. = 1"=10M

SECTION 8
 SCALE: HORIZ. = 1"=100'
 VERT. = 1"=10M

SITE PLAN
 SCALE: 1"=100'
 CONTAIN. 10000' x 10000'

ORIGINAL SIGNED BY:



PROJECT NOTES

1. UNLESS OTHERWISE NOTED, THE RESTRICTION SHALL BE THE RESTRICTION SHOWN ON THE ORIGINAL SIGNED BY.
2. UNLESS OTHERWISE NOTED, THE RESTRICTION SHALL BE THE RESTRICTION SHOWN ON THE ORIGINAL SIGNED BY.
3. UNLESS OTHERWISE NOTED, THE RESTRICTION SHALL BE THE RESTRICTION SHOWN ON THE ORIGINAL SIGNED BY.
4. UNLESS OTHERWISE NOTED, THE RESTRICTION SHALL BE THE RESTRICTION SHOWN ON THE ORIGINAL SIGNED BY.

MATERIAL	QTY	CITY
STABILIZATION FILL	37260M ³	
GENERAL SITE FILL	27590M ³	
SECURED BEACH EXCAVATION	7420M ³	
TRENCH EXCAVATION	10830M ³	
SECURED 154 ROLLS MINI	20320M ³	

* CITY'S ARE BANNED W/3
 SECURED QTY INCLUDES 10%
 FOR WASTE/UMMAGE

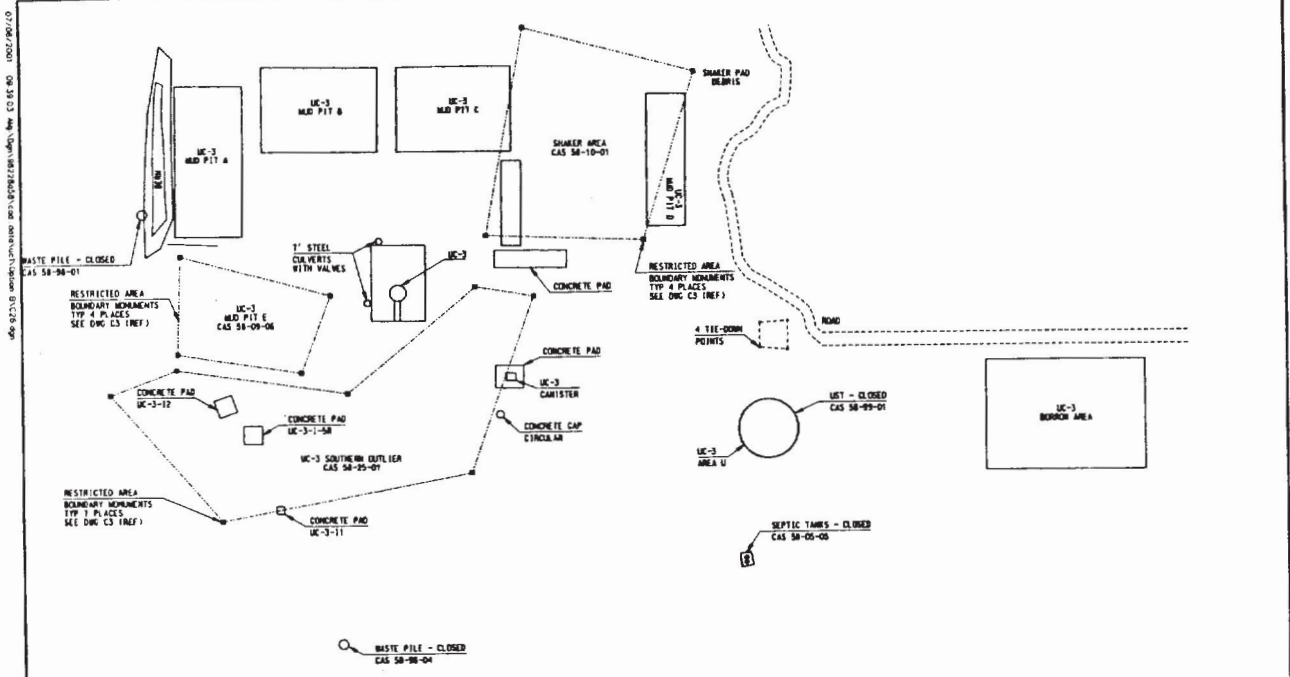
AS-BUILT

Bozorth Nevada
 Signature on file
 Signature on file
 Signature on file
 Signature on file

REFERENCES

- TITLE SHEET
- RESTRICTED AREA BOUNDARIES
- VICINITY MAP
- MUD PIT EXTENSION GRADING PLAN & SECTIONS
- SITE A GRADING PLAN
- CLOSURE CAP
- SITE B GRADING PLAN
- SECTIONS CAP
- WEST DIVERSION CHANNEL PLAN & PROFILE
- EAST DIVERSION CHANNEL GRADING PLAN

SITE PLAN
SCALE 1:11,000

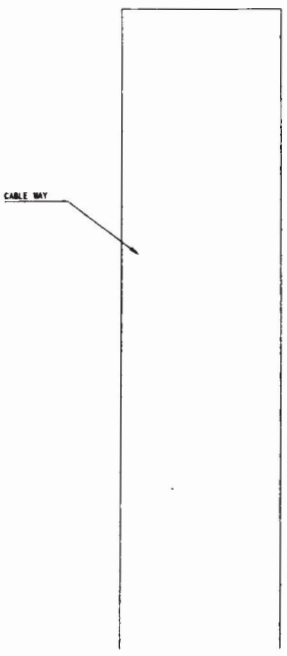
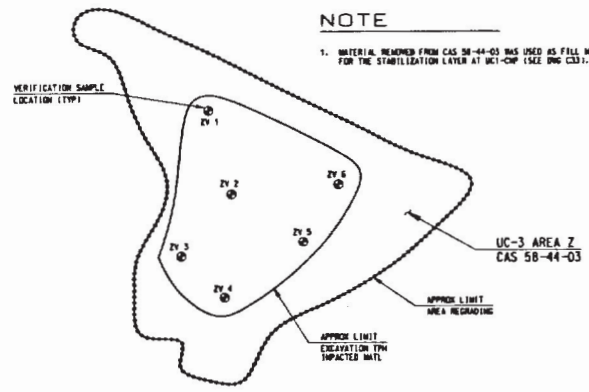


REFERENCES

TITLE SHEET	JS-058-98228-12
RESTRICTED AREA BOUNDARIES	JS-058-98228-C3
CLOSURE CAP SECTIONS	JS-058-98228-C33

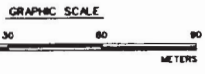
NOTE

1. MATERIAL REMOVED FROM CAS 58-44-03 WAS USED AS FILL MATERIAL FOR THE STABILIZATION LAYER AT UC1-CHP (SEE DWG C33).



AS-BUILT	
Bechtel Nevada	
DATE	4/11/00
BY	E. B. SCHOFFER
CHECKED	DANIEL SHOTTON
APPROVED	MERICA SANDOZ
PROJECT NUMBER	98228-058
PROJECT TITLE	UC-3 CLEAN CLOSURE SITES
DATE	4/11/00
BY	E. B. SCHOFFER
CHECKED	DANIEL SHOTTON
APPROVED	MERICA SANDOZ

UNLESS NOTED BY MARKED CHANGES, ALL DIMENSIONS, NOTES, REFERENCES AND CONSTRUCTION FEATURES ARE CORRECTED, AND WERE CONSTRUCTED AS SHOWN ON THIS DRAWING.

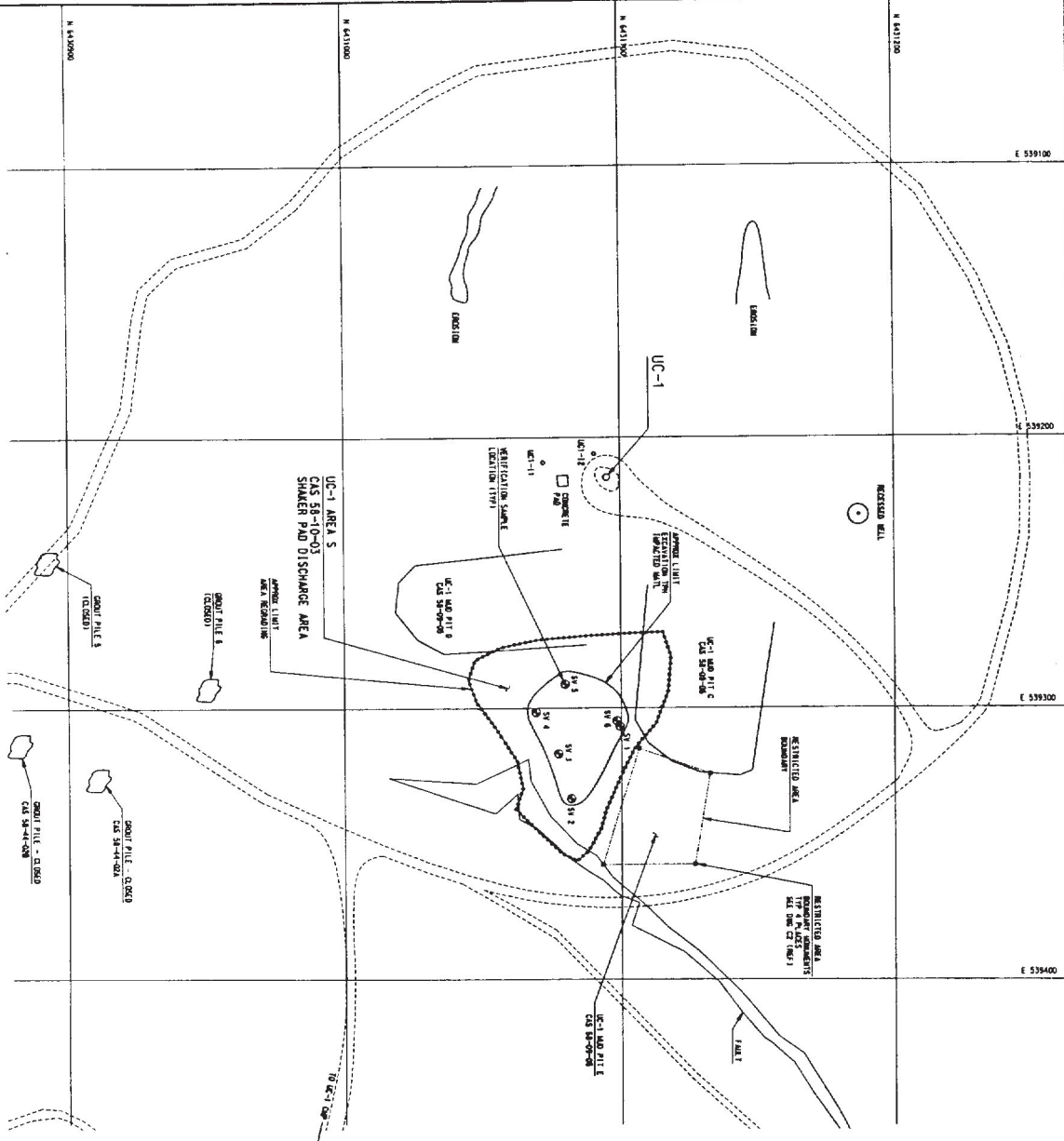


UC-3 CLEAN CLOSURE SITES

SCALE 1:11750

ORIGINAL SIGNED BY:

<p>U.S. DEPARTMENT OF ENERGY</p> <p>BECHTEL NEVADA</p>	<p>CENTRAL NEVADA TEST AREA</p> <p>CAU 417 CLOSURE</p>	<p>AREA 58</p>	<p>DATE</p> <p>4/5/00</p>	<p>BY</p> <p>E. B. SCHOFFER</p>	<p>DATE</p> <p>4/5/00</p>	<p>BY</p> <p>DANIEL SHOTTON</p>	<p>DATE</p> <p>4/5/00</p>	<p>BY</p> <p>MERICA SANDOZ</p>	<p>DATE</p> <p>4/11/00</p>	<p>BY</p> <p>E. B. SCHOFFER</p>	<p>DATE</p> <p>4/11/00</p>	<p>BY</p> <p>DANIEL SHOTTON</p>	<p>DATE</p> <p>4/11/00</p>	<p>BY</p> <p>MERICA SANDOZ</p>
	<p>AREA UC-3</p> <p>CLEAN CLOSURE SITES</p>	<p>DATE</p> <p>4/11/00</p>	<p>BY</p> <p>E. B. SCHOFFER</p>	<p>DATE</p> <p>4/11/00</p>	<p>BY</p> <p>DANIEL SHOTTON</p>	<p>DATE</p> <p>4/11/00</p>	<p>BY</p> <p>MERICA SANDOZ</p>	<p>DATE</p> <p>4/11/00</p>	<p>BY</p> <p>E. B. SCHOFFER</p>	<p>DATE</p> <p>4/11/00</p>	<p>BY</p> <p>DANIEL SHOTTON</p>	<p>DATE</p> <p>4/11/00</p>	<p>BY</p> <p>MERICA SANDOZ</p>	



UC-1 CLEAN CLOSURE SITES

SCALE 1:1100

NOTE

1. MATERIAL REMOVED FROM CLOSURE SITES MUST BE HELD AT FILL SITE UNTIL PERMITTED FOR REUSE OR DISPOSAL AT AN APPROVED LOCATION.
2. ALL CLOSURE PITS MUST BE MONITORED. LOCATION SHOWN FOR RECORD.

REFERENCES

TITLE SHEET
RESTRICTED AREA BOUNDARIES
CLOSURE CAP SECTIONS
45-004-98278-12
45-004-98278-C2
45-004-98278-C33

ORIGINAL SIGNED BY:

AS-BUILT

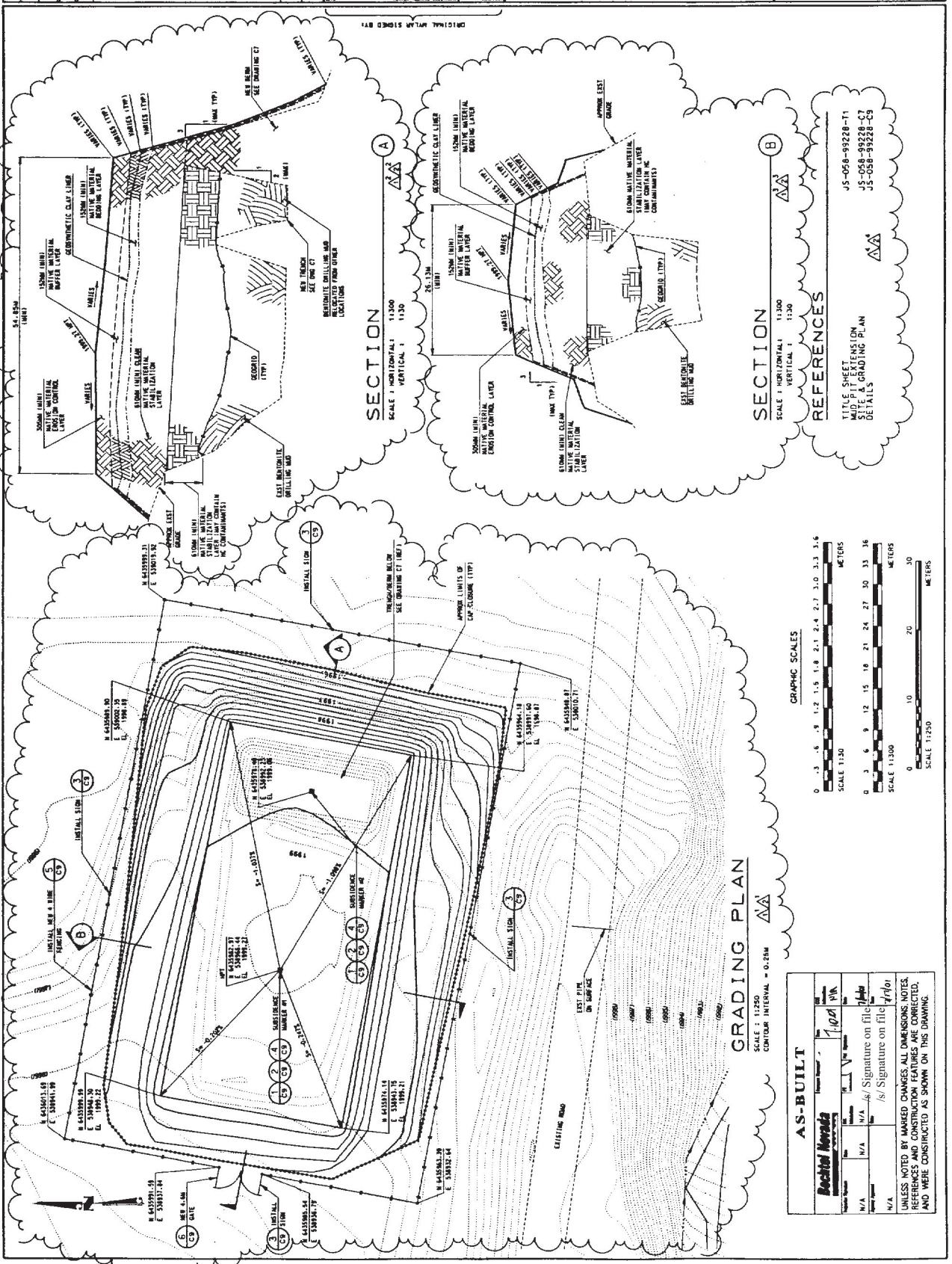
Prepared by	Checked by	Signature on File
N/A	N/A	N/A
Drawn by	Reviewed by	Signature on File
N/A	N/A	N/A

UNLESS NOTED BY A NOTE, ALL DIMENSIONS, ELEVATIONS, AND LOCATIONS SHOWN ON THIS DRAWING AND WERE CONTRIBUTED BY THE FIELD PERSONNEL.



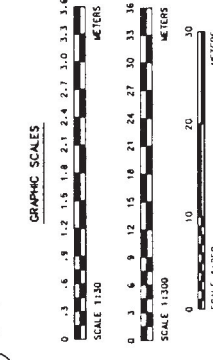
<p>U.S. DEPARTMENT OF ENERGY CENTRAL NEVADA TEST AREA — AREA 5B CAU 417 CLOSURE AREA UC-1 CLEAN CLOSURE SITES</p>	<p>ISSUED FOR CONSTRUCTION 04/09/00</p>	<p>REVISION DESCRIPTION</p>
	<p>45-004-98278-C2</p>	<p>REVISOR: M. SOECHTER DATE: 4/9/00</p> <p>REVISOR: MICHAEL SHOOTEN DATE: 4/9/00</p> <p>REVISOR: MONICA SANCHEZ DATE: 4/7/00</p>

U.S. DEPARTMENT OF ENERGY Bechtel Nevada 1315 WEST CLARK STREET LAS VEGAS, NEVADA 89102		0-10-00-00-00-00 0-10-00-00-00-00	
CENTRAL NEVADA TEST AREA CAU 417 REMEDIATION MAD PIT UC4-C CLOSURE GRADING PLAN & SECTIONS		AREA 58	
NO. 1 DATE 7/27/99 DESIGNED BY LAMBER	NO. 2 DATE 7/28/99 CHECKED BY MICHAEL SWITTON	NO. 3 DATE 7/30/99 DESIGNED BY MICHAEL D. GILMOR	NO. 4 DATE 8/11/99 CHECKED BY MICHAEL D. GILMOR
FINAL AS-BUILT DATED 4/16/01 AS-BUILT DATED 11/8/99 ISSUED FOR CONSTRUCTION 07/20/99			
11-11-00-REVISIONS			



REFERENCES

TITLE SHEET
 SITE & GRADING PLAN
 JS-058-93228-T1
 JS-058-93228-C7
 JS-058-93228-C9



AS-BUILT

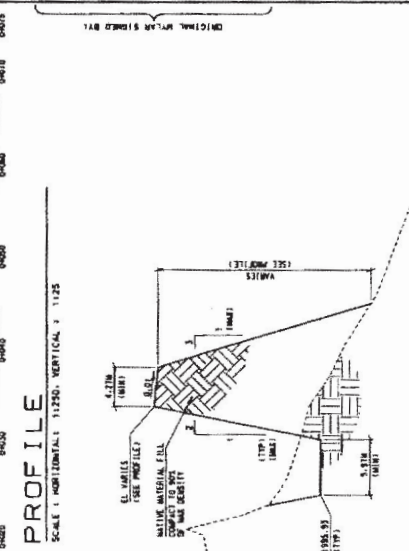
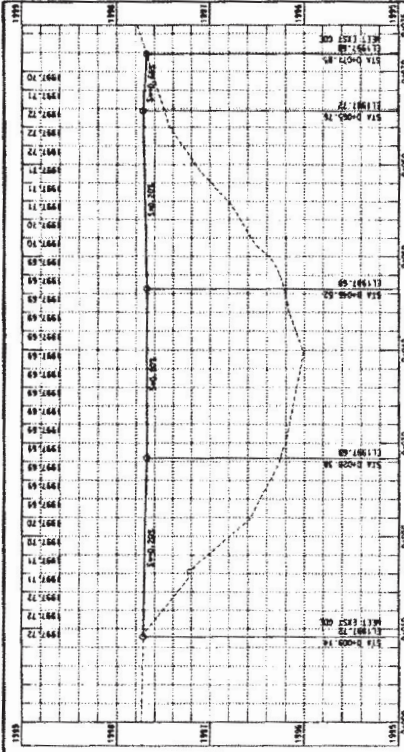
Name Bechtel Nevada	Title P.E.
Date N/A	Signature on file [Signature]
Name N/A	Signature on file [Signature]
Date N/A	Signature on file [Signature]

UNLESS NOTED BY MARKED DIMENSIONS, NOTES, REFERENCES AND CONSTRUCTION FEATURES ARE CORRECTED, AND WERE CONSTRUCTED AS SHOWN ON THIS DRAWING.

GRADING PLAN
 SCALE 1:1500
 CENTER INTERVAL = 0.25M

SECTION A-A
 SCALE 1 HORIZONTAL 1:1500
 VERTICAL 1:1500

SECTION B-B
 SCALE 1 HORIZONTAL 1:1500
 VERTICAL 1:1500



REFERENCES

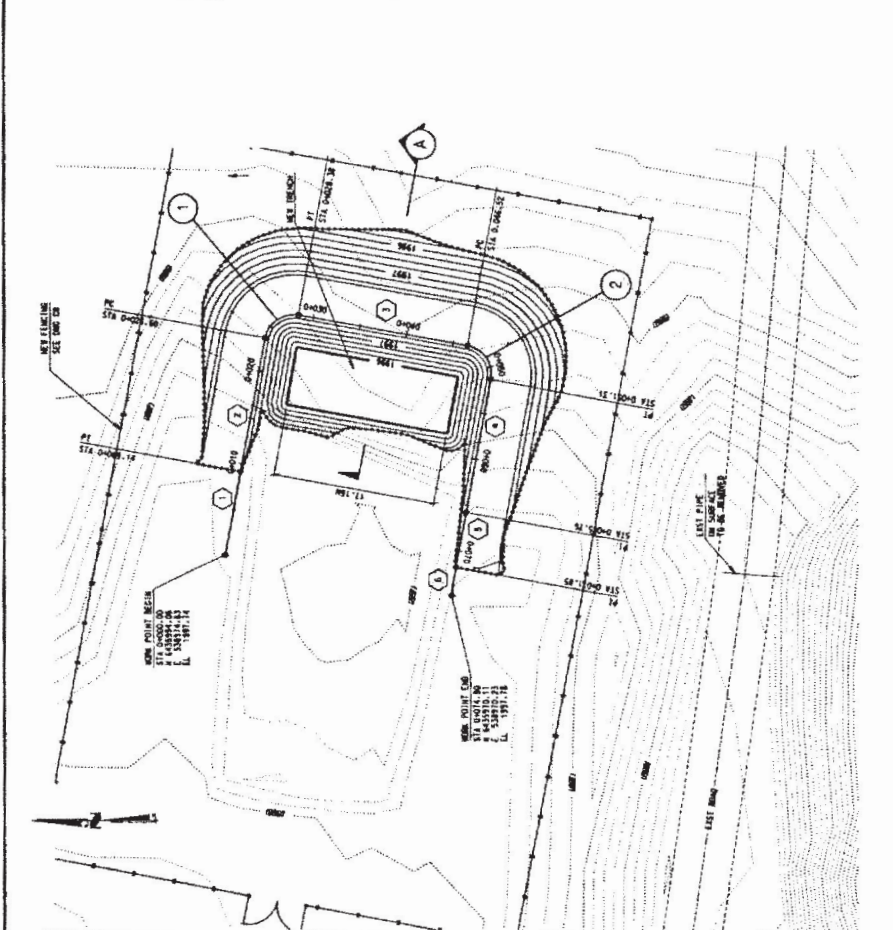
TITLE SHEET: JS-058-99228-T1
 CLOSURE CAP: JS-058-99228-CB
 GRADING PLAN & SECTIONS: JS-058-99228-CB

AS-BUILT

Signature on file
 Signature on file
 Signature on file
 Signature on file

UNLESS NOTED BY DIMENSIONS, ALL DIMENSIONS NOTES, DIMENSIONS AND LOCATIONS SHOWN ON THIS DRAWING, AND WERE CONSTRUCTED AS SHOWN ON THIS DRAWING.

GRAPHIC SCALE
 SCALE 1:25
 SCALE 1:250

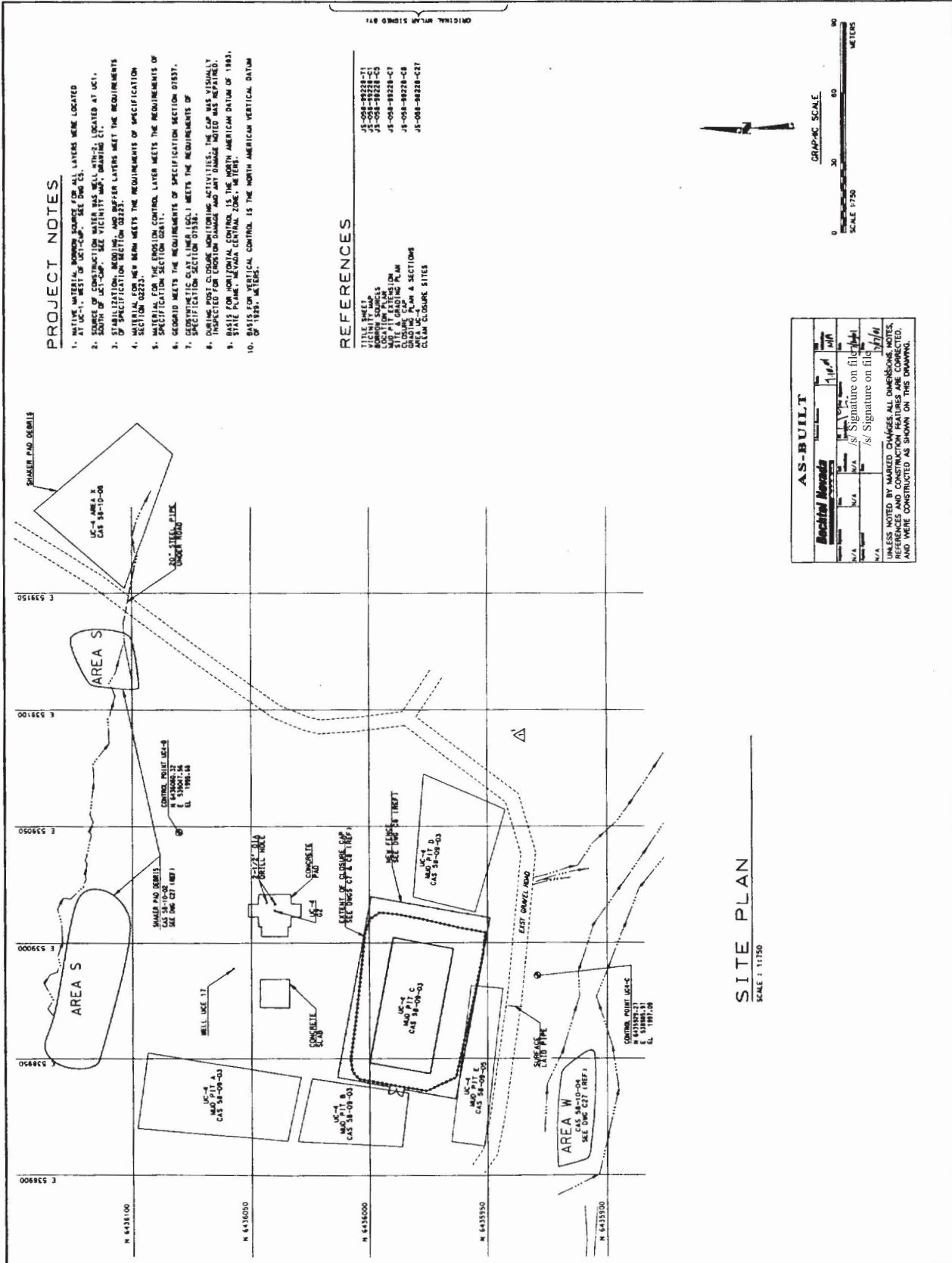


SITE & GRADING PLAN

SCALE: 1:1750
CONTOUR INTERVAL = 0.25M

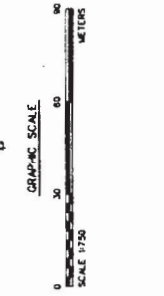
CURVE DATA			
CURVE NO.	DELTA	RADIUS	LENGTH
1	89°19'24"	3.00M	4.77M
2	89°00'01"	3.20M	4.77M

LINE SEGMENT DATA			
LINE NO.	BEARING	DISTANCE	MARKING
1	S73°55'W	5.15M	1.00M
2	S73°25'W	11.45M	1.00M
3	S73°00'W	10.17M	1.00M
4	S73°30'W	11.45M	1.00M
5	S73°55'W	5.15M	1.00M



- PROJECT NOTES**
1. NATIVE MATERIAL SOURCE FOR ALL LAYERS WERE LOCATED AT UCA 1, WEST OF UCA-C. SEE DWG 03.
 2. SOURCE OF CONSTRUCTION WATER WAS WELL WTH-2, LOCATED AT UCA 1, SOUTH OF UCA-C. SEE VICINITY MAP, DRAWING 01.
 3. MATERIAL FOR MAO BARRIERS WERE OBTAINED FROM THE UCA 1 DEBRIS PILE. UCA 1 MEETS THE REQUIREMENTS OF SPECIFICATION SECTION 0237.
 4. MATERIAL FOR MAO BARRIERS MEETS THE REQUIREMENTS OF SPECIFICATION SECTION 0237.
 5. MATERIAL FOR THE EROSION CONTROL LAYER MEETS THE REQUIREMENTS OF SPECIFICATION SECTION 0137.
 6. GEOMAT MEETS THE REQUIREMENTS OF SPECIFICATION SECTION 0137.
 7. GEOMAT MEETS THE REQUIREMENTS OF SPECIFICATION SECTION 0137.
 8. DURING PRELIMINARY CONSTRUCTION ACTIVITIES, THE CAP WAS VISUALLY INSPECTED FOR EROSION DAMAGE AND ANY DAMAGE NOTED WAS REPAIRED.
 9. BASIS FOR HORIZONTAL CONTROL IS THE NORTH AMERICAN DATUM OF 1983, STATE PLANE, NEVADA CENTRAL ZONE, METERS.
 10. BASIS FOR VERTICAL CONTROL IS THE NORTH AMERICAN VERTICAL DATUM OF 1983, METERS.

- REFERENCES**
- TITLE SHEET
 VICINITY MAPS
 UCA 1, UCA 2, UCA 3, UCA 4, UCA 5, UCA 6, UCA 7, UCA 8, UCA 9, UCA 10
 MAO PIT UCA-C
 UCA 1, UCA 2, UCA 3, UCA 4, UCA 5, UCA 6, UCA 7, UCA 8, UCA 9, UCA 10
 UCA 1, UCA 2, UCA 3, UCA 4, UCA 5, UCA 6, UCA 7, UCA 8, UCA 9, UCA 10
 UCA 1, UCA 2, UCA 3, UCA 4, UCA 5, UCA 6, UCA 7, UCA 8, UCA 9, UCA 10
 UCA 1, UCA 2, UCA 3, UCA 4, UCA 5, UCA 6, UCA 7, UCA 8, UCA 9, UCA 10



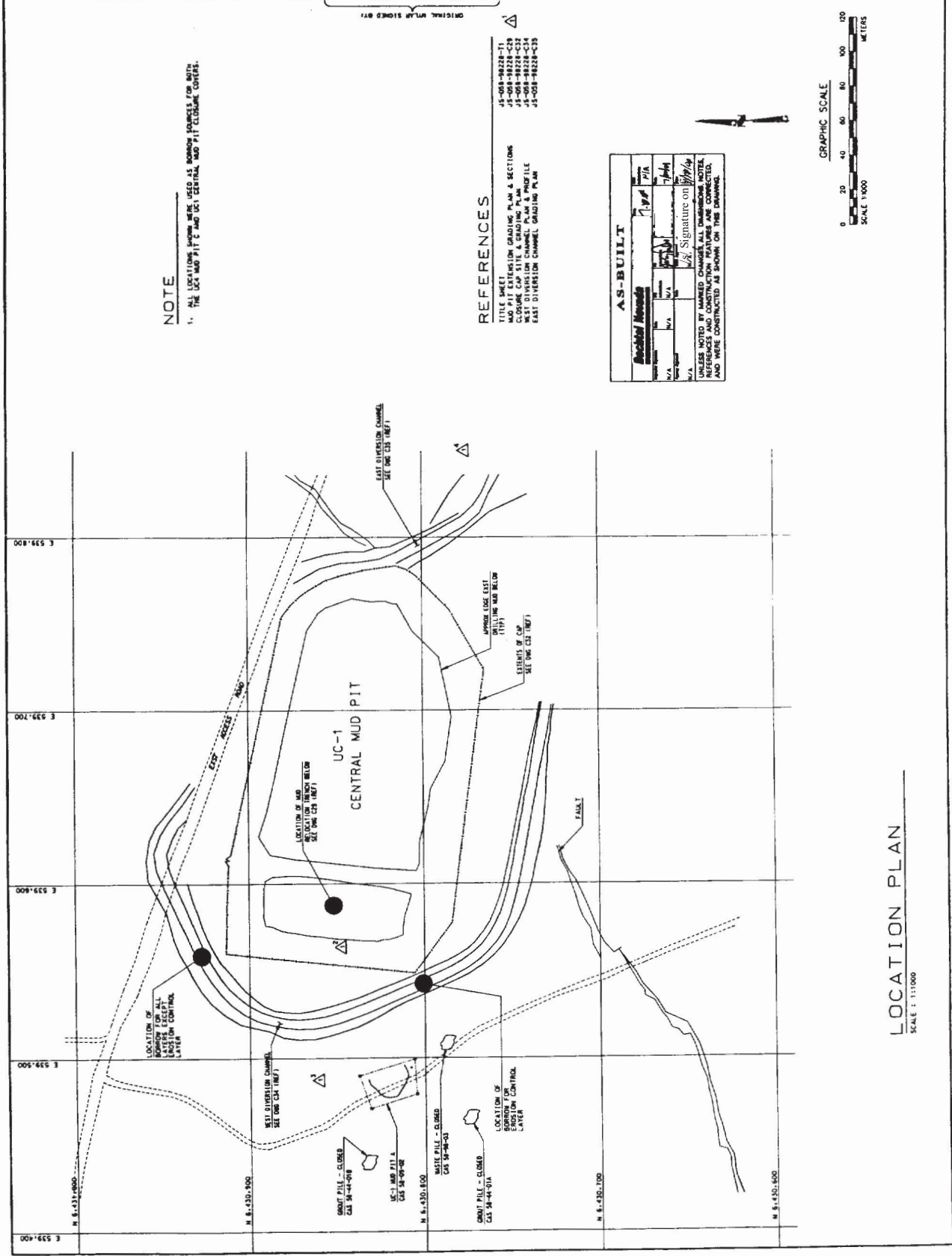
AS-BUILT

DATE: 11/8/99	DRAWN: M. J. GIBLIN	CHECKED: M. J. GIBLIN	SCALE: N/A
ISSUED FOR CONSTRUCTION 01/29/99	AS-BUILT DATED 11/8/99	DATE: 11/8/99	SCALE: N/A

UNLESS NOTED BY A REVISION, DIMENSIONS, NOTES, AND MATERIALS SHOWN ON THIS DRAWING ARE AS CONSTRUCTED AND WERE CONSTRUCTED AS SHOWN ON THIS DRAWING.

SITE PLAN
SCALE: 1:11250

		U.S. DEPARTMENT OF ENERGY CENTRAL NEVADA TEST AREA CAU 417 REMEDIATION MUD PIT UC4-C CLOSURE BORROW SOURCES LOCATION PLAN AREA 58	
DATE	12/27/99	DESIGNED BY	MICHAEL, S. GIBLIN
SCALE	AS-BUILT	CHECKED BY	MICHAEL, S. GIBLIN
NO.	1	DATE	12/27/99
REVISIONS AND REVISIONS AS-BUILT 12/27/99		CURRENT STATUS 07/29/99 ISSUED FOR CONSTRUCTION 07/29/99	
REVISIONS 1. 12/27/99 2. 12/27/99 3. 12/27/99 4. 12/27/99 5. 12/27/99			

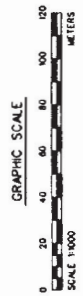


NOTE
 1. ALL LOCATIONS SHOWN WERE USED AS BORROW SOURCES FOR MUD IN THE UC4 AND PIT C AND UC1 CENTRAL MUD PIT CLOSURE CONCRETS.

REFERENCES

- TITLE SHEET
- UC-1 MUD PIT EXTENSION GRADING PLAN & SECTIONS
- UC-1 MUD PIT CLOSURE PLAN & PROFILE
- WEST DIVERSION CHANNEL PLAN & PROFILE
- EAST DIVERSION CHANNEL GRADING PLAN
- JE-008-98228-11
- JE-008-98228-12
- JE-008-98228-13
- JE-008-98228-14
- JE-008-98228-15

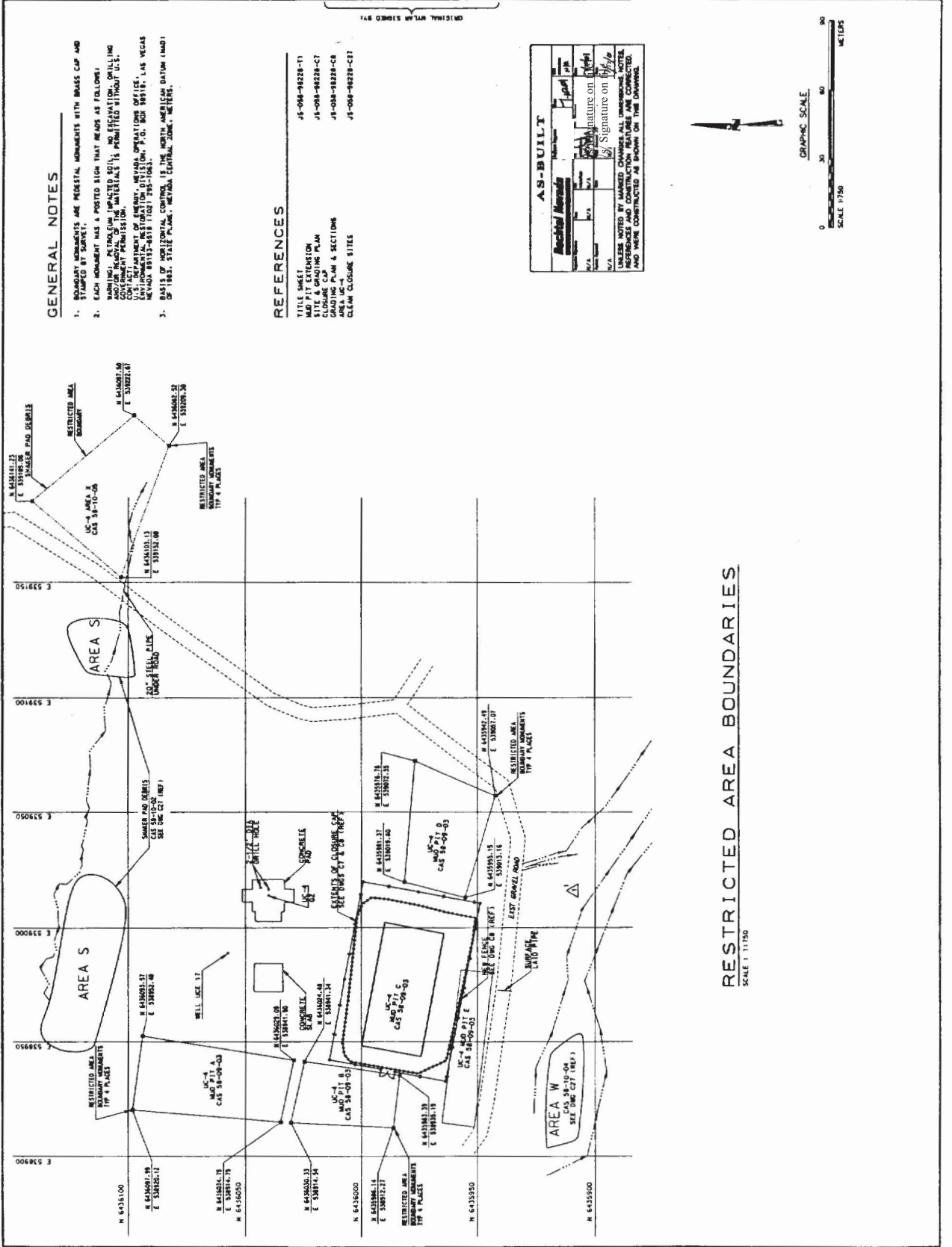
AS-BUILT	
DATE	12/27/99
SCALE	AS-BUILT
NO.	1
REVISIONS AND REVISIONS AS-BUILT 12/27/99	
REVISIONS 1. 12/27/99 2. 12/27/99 3. 12/27/99 4. 12/27/99 5. 12/27/99	



LOCATION PLAN
 SCALE 1:11000

ORIGINAL PLAN SIGNED BY:

		CAU 417 REDEMPTION AREA UC4-C CLOSURE RESTRICTED AREA BOUNDARIES	
DATE: 1/27/79 DRAWN BY: JAS CHECKED BY: JAS APPROVED BY: JAS	DATE: 7/29/79 DRAWN BY: MICHAEL SWITTON CHECKED BY: JAS APPROVED BY: MICHAEL SWITTON	DATE: 7/20/79 DRAWN BY: MICHAEL D. BIRLIN CHECKED BY: JAS APPROVED BY: MICHAEL D. BIRLIN	DATE: 8/22/78 DRAWN BY: MICHAEL D. BIRLIN CHECKED BY: JAS APPROVED BY: MICHAEL D. BIRLIN



GENERAL NOTES

- BOUNDARY MONUMENTS ARE RESTRICTION MONUMENTS WITH BRASS CAP AND STAMPED BY SURVEY.
- EACH MONUMENT HAS A POSTED SIGN THAT READS AS FOLLOWS:
 MONUMENT NUMBER
 MONUMENT TYPE
 MONUMENT DATE
 MONUMENT LOCATION
 MONUMENT SURVEY
 MONUMENT PERMIT
 MONUMENT OFFICE
 U.S. DEPARTMENT OF ENERGY
 RESTRICTION MONUMENT OFFICE, LAS VEGAS
 NEVADA 89153-8518 (102) 793-1043
- BASES OF HORIZONTAL CONTROL IS THE NORTH AMERICAN DATUM (NAD) OF 1983, STATE PLANE, NEVADA CENTRAL ZONE, METERS.

REFERENCES

- STATE OF NEVADA - JN-004-98228-11
- MAD P17 EXTENSION - JN-004-98228-C7
- SITE & GRADING PLAN - JN-004-98228-C8
- CLOSURE CAP PLAN & SECTIONS - JN-004-98228-C9
- AREA UC-4 - JN-004-98228-C17
- CLEAR CLOSURE SITES

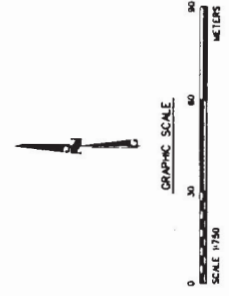
AS-BUILT

RESTRICTED AREA BOUNDARIES

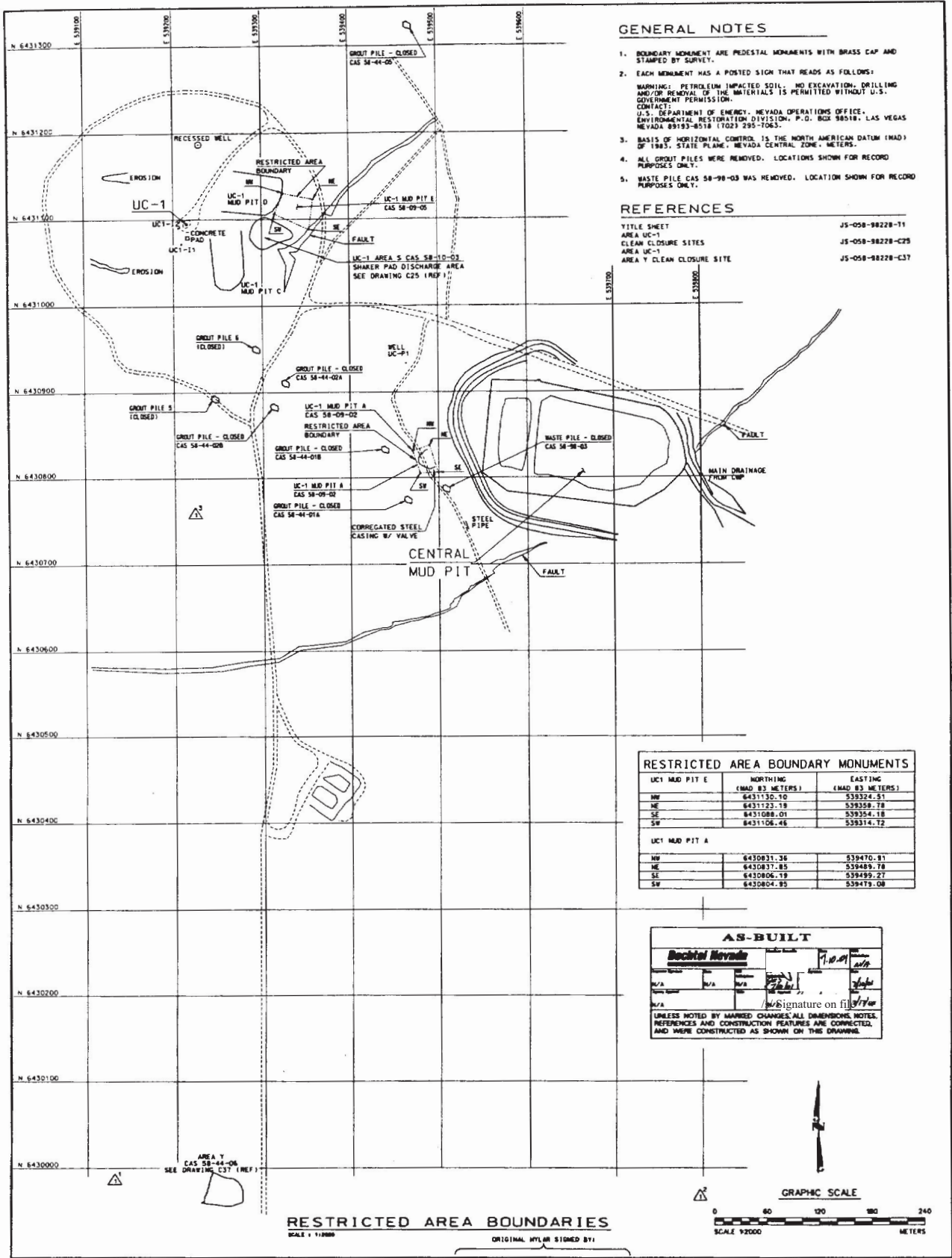
Signature on [Blank]

DATE: [Blank]

SCALE NOTED BY HANDED OVER. SEE ALL DIMENSIONS FOR REFERENCE AND CONSTRUCTION FEATURES ARE CONNECTED AND WERE CONSTRUCTED AS SHOWN ON THE DRAWING.



RESTRICTED AREA BOUNDARIES
 SCALE 1:11750



GENERAL NOTES

- BOUNDARY MONUMENT ARE PEDESTAL MONUMENTS WITH BRASS CAP AND STAMPED BY SURVEY.
- EACH MONUMENT HAS A POSTED SIGN THAT READS AS FOLLOWS:
WARNING: PETROLEUM IMPACTED SOIL. NO EXCAVATION, DRILLING AND/OR REMOVAL OF THE MATERIALS IS PERMITTED WITHOUT U.S. GOVERNMENT PERMISSION.
CONTACT:
U.S. DEPARTMENT OF ENERGY, NEVADA OPERATIONS OFFICE,
ENVIRONMENTAL RESTORATION DIVISION, P.O. BOX 90018, LAS VEGAS NEVADA 89193-0518 (702) 295-7063.
- BASIS OF HORIZONTAL CONTROL IS THE NORTH AMERICAN DATUM (NAD) OF 1983, STATE PLANE, NEVADA CENTRAL ZONE - METERS.
- ALL GROUT PILES WERE REMOVED. LOCATIONS SHOWN FOR RECORD PURPOSES ONLY.
- WASTE PILE CAS 58-98-03 WAS REMOVED. LOCATION SHOWN FOR RECORD PURPOSES ONLY.

REFERENCES

- TITLE SHEET JS-058-98228-11
- AREA UC-1 CLEAN CLOSURE SITES JS-058-98228-C25
- AREA UC-1 AREA Y CLEAN CLOSURE SITE JS-058-98228-C37

RESTRICTED AREA BOUNDARY MONUMENTS

UC1 MUD PIT E	NORTHING (MAD BY METERS)	EASTING (MAD BY METERS)
NW	6431130.50	539324.51
NE	6431123.18	539358.78
SE	6431088.01	539354.18
SW	6431106.46	539314.72

UC1 MUD PIT A	NORTHING (MAD BY METERS)	EASTING (MAD BY METERS)
NW	6430831.36	539470.81
NE	6430837.85	539489.78
SE	6430806.19	539499.27
SW	6430804.35	539475.08

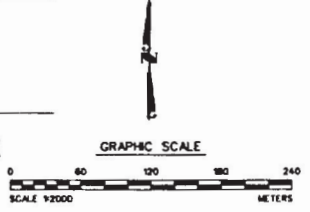
AS-BUILT

Bechtel Nevada

7/10/99

Signature on file

UNLESS NOTED BY MARKED CHANGES ALL DIMENSIONAL NOTES, REFERENCES AND CONSTRUCTION FEATURES ARE CORRECTED, AND WERE CONSTRUCTED AS SHOWN ON THIS DRAWING.



RESTRICTED AREA BOUNDARIES

<p>U.S. DEPARTMENT OF ENERGY</p> <p><i>Bechtel Nevada</i></p> <p>NEVADA OPERATIONS OFFICE LAS VEGAS, NEVADA</p>	<p>CENTRAL NEVADA TEST AREA — AREA 58</p> <p>CAU 417 REMEDIATION</p> <p>MUD PIT UC4-C CLOSURE</p> <p>AREA UC-1</p> <p>RESTRICTED AREA BOUNDARIES</p>	<p>DESIGNED BY JAS</p> <p>DRAWN BY DEEVE LAMER</p> <p>CHECKED BY ES/JAS</p> <p>DATE 7/27/99</p>	<p>ISSUED BY MICHAEL D. GIBLIN</p> <p>DATE 7/30/99</p> <p>PROJECT NUMBER 98228A58</p> <p>PROJECT AREA N/A</p> <p>UTILITY CODE C8011004</p>	<p>REVISIONS</p> <p>1. REVISED AND REDRAWN AS-BUILT DATED 4/21/01</p> <p>2. RESCALED AND REDRAWN TO CORRECT LOCATION OF AREA Y. CURRENT STATUS DATED 11/8/99</p> <p>3. ISSUED FOR CONSTRUCTION 07/30/99</p>	<p>SCALE 1:10000</p> <p>ORIGINAL MYLAR SIGNED BY:</p>
		<p>DATE 7/27/99</p> <p>DATE 7/28/99</p> <p>DATE 7/30/99</p>	<p>DATE 7/27/99</p> <p>DATE 7/28/99</p> <p>DATE 7/30/99</p>	<p>DATE 7/27/99</p> <p>DATE 7/28/99</p> <p>DATE 7/30/99</p>	<p>DATE 7/27/99</p> <p>DATE 7/28/99</p> <p>DATE 7/30/99</p>

UNITED STATES DEPARTMENT OF ENERGY

NEVADA OPERATIONS OFFICE
LAS VEGAS, NEVADA

CENTRAL NEVADA TEST AREA (CNTA) CAU 417 REMEDIATION - UC4-C CLOSURE AREA 58

PROJECT LOCATION
FOR VICINITY MAP
SEE DWG C1

INDEX

DRAWING NUMBER	DRAWING TITLE
AS-008-88228-51	VICINITY MAP
AS-008-88228-52	AREA UC-1 RESTRICTED AREA BOUNDARIES
AS-008-88228-53	AREA UC-3 RESTRICTED AREA BOUNDARIES
AS-008-88228-54	BORROW SOURCES LOCATION PLAN
AS-008-88228-55	SITE PLAN
AS-008-88228-56	MAD PIT EXTENSION, SITE & GRADING PLAN
AS-008-88228-57	DETAILS
AS-008-88228-58	DETAILS

SCOPE OF WORK THIS PROJECT INCLUDES THE CONSTRUCTION OF AN ENGINEERED CLOSURE CAP AT THE UC4 AND PIT C LOCATED IN CENTRAL NEVADA. CONSTRUCTION ALSO INCLUDES INSTALLATION OF GEORRID AND A MAD PIT EXTENSION TO THE EXISTING MAD PIT.

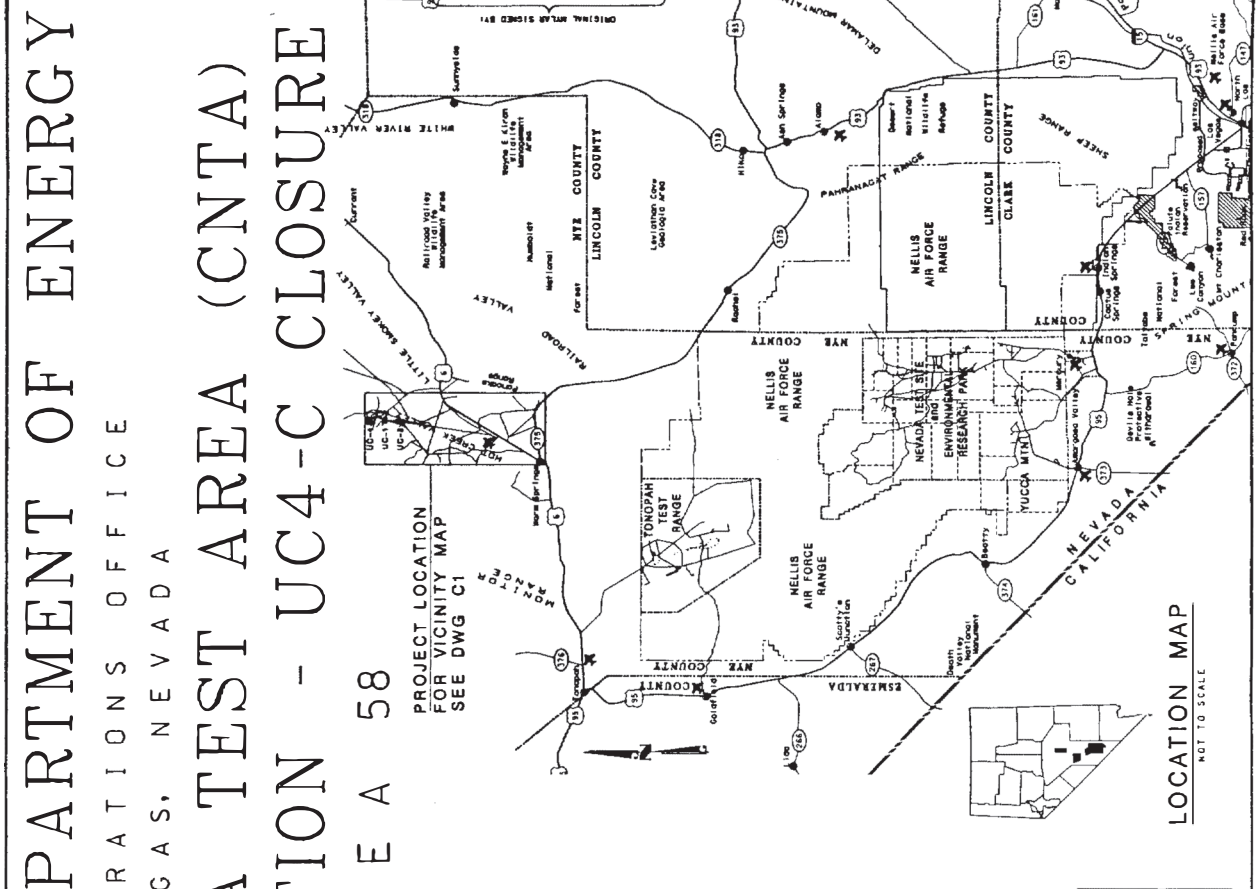
PROJECT NOTES THIS PROJECT INCLUDES THE CONSTRUCTION OF AN ENGINEERED CLOSURE CAP AT THE UC4 AND PIT C LOCATED IN CENTRAL NEVADA. CONSTRUCTION ALSO INCLUDES INSTALLATION OF GEORRID AND A MAD PIT EXTENSION TO THE EXISTING MAD PIT.

PROJECT NOTES THIS PROJECT INCLUDES THE CONSTRUCTION OF AN ENGINEERED CLOSURE CAP AT THE UC4 AND PIT C LOCATED IN CENTRAL NEVADA. CONSTRUCTION ALSO INCLUDES INSTALLATION OF GEORRID AND A MAD PIT EXTENSION TO THE EXISTING MAD PIT.

AS-BUILT	
AS-BUILT	Signature on file <i>zjh</i>
AS-BUILT	Signature on file <i>zjh</i>
AS-BUILT	Signature on file <i>zjh</i>

UNLESS NOTED BY MARKED DIMENSIONS, NOTES, REFERENCES AND CONSTRUCTION FEATURES ARE CORRECTED AND WERE CONSTRUCTED AS SHOWN ON THIS DRAWING.

<p>U.S. DEPARTMENT OF ENERGY Bechtel Nevada 1515 EAST FLORIDA BOULEVARD LAS VEGAS, NEVADA 89119 TEL: 702-251-6000 FAX: 702-251-6001</p>	<p>AREA 58 CAU 417 REMEDIATION MAD PIT UC4-C CLOSURE TITLE SHEET</p>
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NO.	REVISION	DATE	BY	CHKD.	APP'D.
1	ISSUED FOR CONSTRUCTION 07/20/98	7/20/98	JAS	JAS	JAS
2	CORRECTED STATUS DATED 11/9/98	11/9/98	JAS	JAS	JAS
3	AS-BUILT DATED 4/16/01	4/16/01	JAS	JAS	JAS
4	REVISION DATED 11/9/98	11/9/98	JAS	JAS	JAS
5	ISSUED FOR CONSTRUCTION 07/20/98	7/20/98	JAS	JAS	JAS
6	ISSUED FOR CONSTRUCTION 07/20/98	7/20/98	JAS	JAS	JAS

APPENDIX D

**SECTORED HOUSEKEEPING SITE CLOSURE
VERIFICATION DOCUMENTATION**

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Sectored Housekeeping Site Closure Verification Form

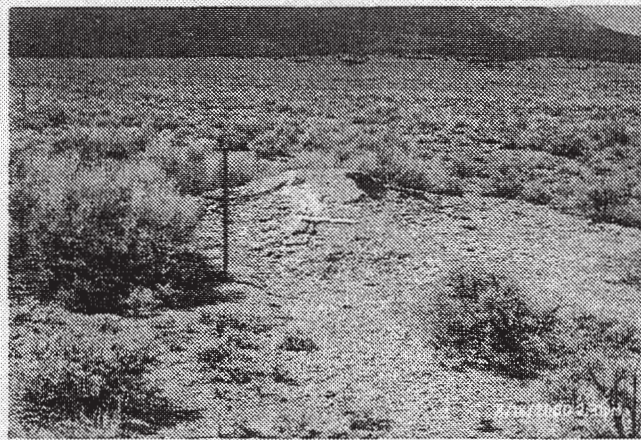
Closure Verification Date: 08/23/00
CAS Number (if applicable): 58-44-01 (North grout pile)
CAU Number (if applicable): 417
Sector Designation: CNTA
Housekeeping Site General Location: Central Nevada Test Site, UC-1
Elevation: 1842.060 m
Northing: 4,276,019.92 m (UTM Zone 11) **Latitude:** 38 37 54.7200
Easting: 568,520.36 m (UTM Zone 11) **Longitude:** 116 12 49.2203

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

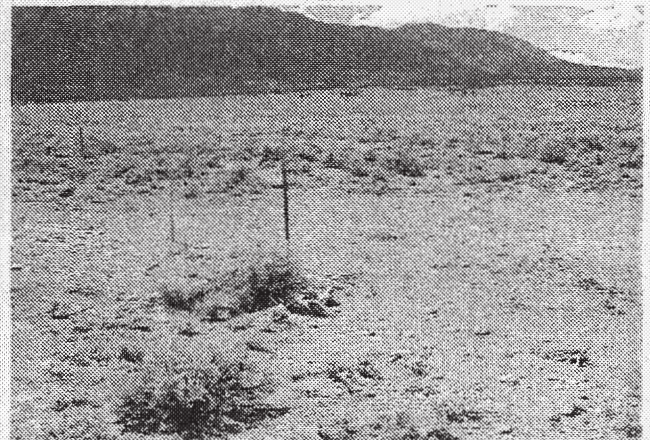
Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take a left onto Moores Station road and follow for approximately 14 miles northwest to a four way dirt intersection. Proceed west through the intersection for approximately 1.5 miles to the UC-1 site. CAS 58-44-01A is located approximately 60 feet northwest of Mud Pit A. (Mud Pit A, CAS 58-09-02, is marked by four above-grade concrete monuments and is approximately 60 feet west of the UC-1 CMP cover fence line.

Waste Item(s) Originally at Site	Apparent Waste Type*
Grout pile (north pile)	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Housekeeping Site (north pile) Prior to Clean Up
(taken 08/18/2000)



Housekeeping Site After Clean Up
(taken 06/07/2001)

Current Site Description/Observations: This CAS was first identified by the IT Off-sites group in a site survey performed on February 13, 1996. The north pile was a small pile of grout measuring approximately 8 feet in diameter and 3.5 feet in height. The grout pile was removed on 23 August 2000, using a front-end loader. The material was used in the construction of the UC-1 Central Mud Pit cover (CAS 58-09-01). The current condition of the former location of the north pile is clear of all waste material.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
Corrective Action Coordinator/Designee

/s/ Signature on file
Signature ✓

07/16/2001
Date

Sector Housekeeping Site Closure Verification Form

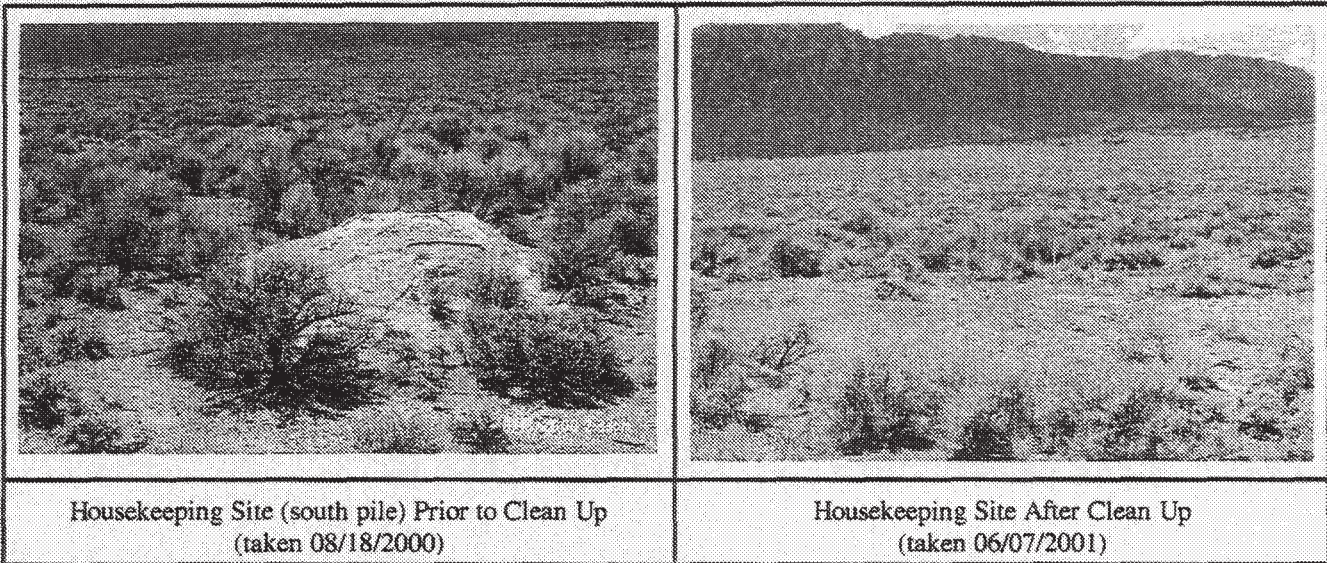
Closure Verification Date: 08/23/00
 CAS Number (if applicable): 58-44-01 (South grout pile)
 CAU Number (if applicable): 417
 Sector Designation: CNTA
 Housekeeping Site General Location: Central Nevada Test Site, UC-1
 Elevation: 1840.760 m
 Northing: 4,275,961.52 m (UTM Zone 11) Latitude: 38 37 52.8182
 Easting: 568,546.48 m (UTM Zone 11) Longitude: 116 12 48.1608

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take a left onto Moores Station road and follow for approximately 14 miles northwest to a four way dirt intersection. Proceed west through the intersection for approximately 1.5 miles to the UC-1 site. The south pile of CAS 58-44-01 is located approximately 35 feet west of Mud Pit A. (Mud Pit A, CAS 58-09-02, is marked by four above-grade concrete monuments approximately 60 feet west of the UC-1 CMP cover fence line.)

Waste Item(s) Originally at Site	Apparent Waste Type*
Grout pile (south pile)	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Current Site Description/Observations: This CAS was first identified by the IT Off-sites group in a site survey performed on February 13, 1996. The south grout pile measured approximately 8 feet in diameter and 3.5 feet high. The grout pile was removed on August 23, 2000 using a front-end loader and was used in the construction of the UC-1 Central Mud Pit (CAS 58-09-01) cover. The current condition of the former location of the south grout pile is clear of all waste material.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file
 Signature

07/16/2001
 Date

Sectored Housekeeping Site Closure Verification Form

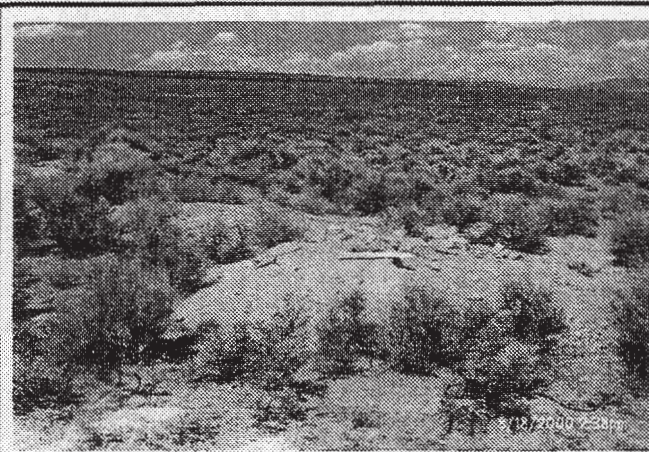
Closure Verification Date: 08/23/00
CAS Number (if applicable): 58-44-02 (North grout pile)
CAU Number (if applicable): 417
Sector Designation: CNTA
Housekeeping Site General Location: Central Nevada Test Site, UC-1
Elevation: 1847.585 m
Northing: 4,276,097.54 m (UTM Zone 11) **Latitude:** 38 37 57.2697
Easting: 568,406.45 m (UTM Zone 11) **Longitude:** 116 12 53.9039

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

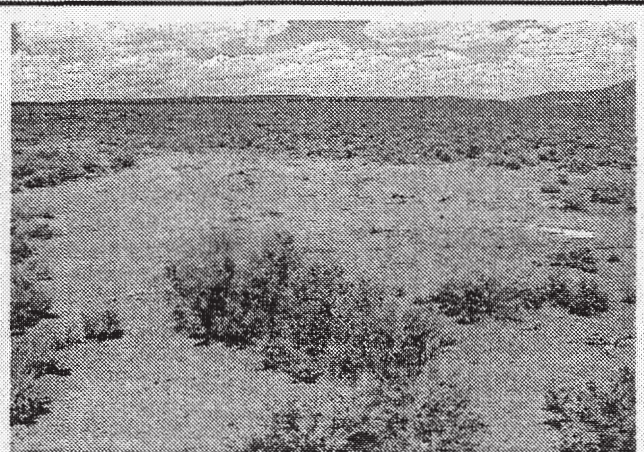
Site Access Route: From Tonopah, NV, drive northeast on Highway 6 for approximately 80 miles to Moores Station road. Follow Moores Station road for approximately 14 miles northwest to a four way dirt intersection. Proceed west through the intersection for approximately 1.5 miles to the UC-1 site. CAS 58-44-02 north, is located approximately 80 ft south of the intersection of the UC-1 access road and the well HTH-2 road and 20 ft east of the well HTH-2 road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Grout pile (north pile)	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Housekeeping Site Prior to Clean Up
(taken 08/18/2000)



Housekeeping Site After Clean Up
(taken 06/07/2001)

Current Site Description/Observations: This CAS was first identified by the IT Off-sites group in a site survey performed on February 13, 1996. The north pile measured approximately 30 by 10 feet and 3 feet high. The grout pile was removed on August 23, 2000, using a front-end loader and was used in the construction of the UC-1 Central Mud Pit (CAS 58-09-01) cover. The current condition of the former location of the north pile is clear of all waste material.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file
 Signature

07/16/2001
 Date

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 08/23/00
 CAS Number (if applicable): 58-44-02 (South grout pile)
 CAU Number (if applicable): 417
 Sector Designation: CNTA
 Housekeeping Site General Location: Central Nevada Test Site, UC-1
 Elevation: 1847.674 m
 Northing: 4,276,069.72 m (UTM Zone11) Latitude: 38 37 56.3706
 Easting: 568,394.05 m (UTM Zone11) Longitude: 116 12 54.4266

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Toiyabe, NV, drive northeast on Highway 6 for approximately 80 miles to Moores Station road. Follow Moores Station road for approximately 14 miles northwest to a four way dirt intersection. Proceed west through the intersection for approximately 1.5 miles to the UC-1 site. The south pile is located approximately 150 feet south of the intersection of the UC-1 access road and the well HTH-2 road, 20 feet east of the well HTH-2 road (approx. 70 feet southwest of the north pile).

Waste Item(s) Originally at Site	Apparent Waste Type*
Grout pile	Ordinary

* Ordinary, Soap Metal, Aerosols, PCB, Solvents, Hazardous, Radioactive, Mixed, Unknown, Other



Housekeeping Site Prior to Clean Up
(taken 08/18/2000)



Housekeeping Site After Clean Up
(taken 06/07/2001)

Current Site Description/Observations: This CAS was first identified by the IT Off-sites group in a site survey performed on February 13, 1996. The south grout pile measured approximately 12 by 10 feet and 3 feet high. The grout pile was removed on August 23, 2000 using a front-end loader and was used in the construction of the UC-1 Central Mud Pit (58-09-01) cover. The current condition of the former location of the south grout pile is clean of all waste material.

No Further Action Required at Housekeeping Site

 Kevin B. Campbell
 Corrective Action Coordinator/Designer

/s/ Signature on file

Signature

07/18/2001

Date

Sector Housekeeping Site Closure Verification Form

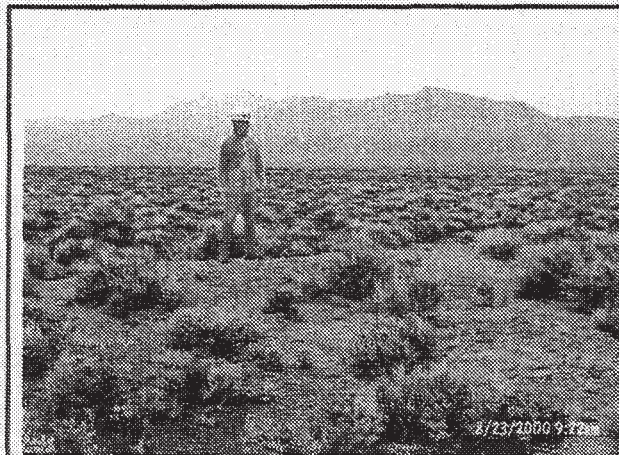
Closure Verification Date: 08/23/00
 CAS Number (if applicable): 58-44-05
 CAU Number (if applicable): 417
 Sector Designation: CNTA
 Housekeeping Site General Location: Central Nevada Test Site, UC-1
 Elevation: 1852.737 m
 Northing: 4,276,510.49 m (UTM Zone 11) Latitude: 38 38 10.6267
 Easting: 568,547.73 m (UTM Zone 11) Longitude: 116 12 47.9144

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

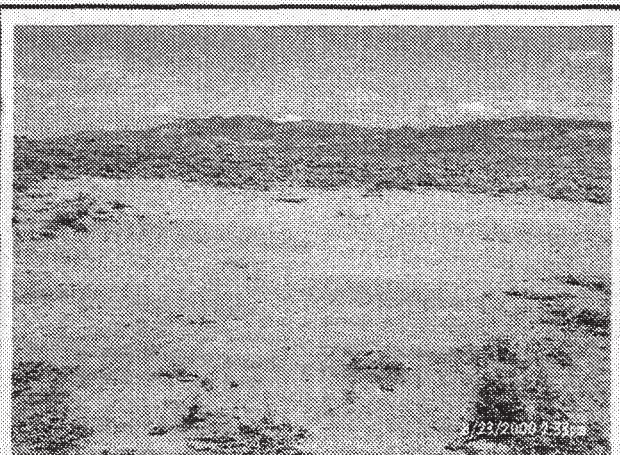
Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take a left onto Moores Station road and follow for approximately 14 miles northwest to a four way dirt intersection. Proceed west through the intersection for approximately 1.5 miles to the UC-1 site. CAS 58-44-05 is located approximately 150 yards northeast of UC-1 ground zero.

Waste Item(s) Originally at Site	Apparent Waste Type*
Grout pile	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Housekeeping Site Prior to Clean Up
(taken 08/23/2000)



Housekeeping Site After Clean Up
(taken 08/23/2000)

Current Site Description/Observations: This CAS was first identified by the IT Off-sites group in a site survey performed on February 13, 1996. The grout pile measured approximately 35 by 35 feet and 3 feet in height. The grout pile was removed on August 23, 2000, using a front-end loader and was used in the construction of the UC-1 Central Mud Pit (58-09-01) cover. The current condition of the former location of the grout pile is clear of all waste material.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file
 Signature

07/16/2001
 Date

Sectored Housekeeping Site Closure Verification Form

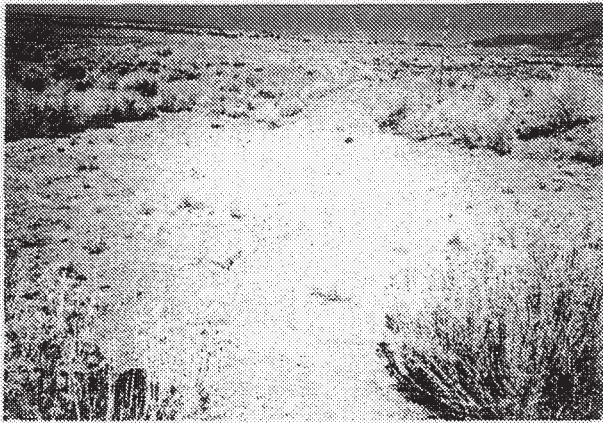
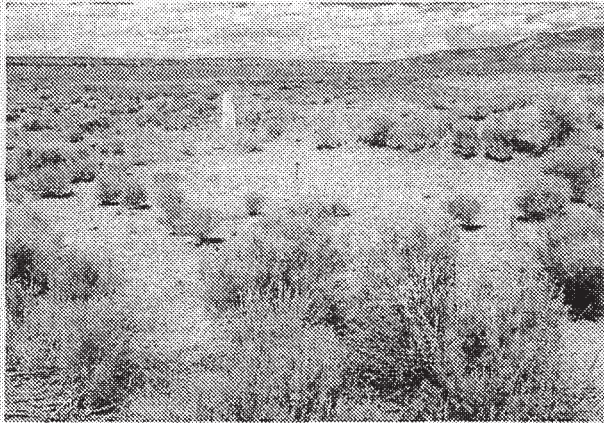
Closure Verification Date: 08/23/00
 CAS Number (if applicable): 58-98-03
 CAU Number (if applicable): 417
 Sector Designation: CNTA
 Housekeeping Site General Location: Central Nevada Test Site, UC-1
 Elevation: 1839.427 m
 Northing: 4,275,974.63 m (UTM Zone 11) Latitude: 38 37 53.2314
 Easting: 568,589.68 m (UTM Zone 11) Longitude: 116 12 46.3695

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take a left onto Moores Station road and follow for approximately 14 miles northwest to a four way dirt intersection. Proceed west through the intersection for approximately 1.5 miles to the UC-1 site. CAS 58-98-03 is the berm adjacent to the east side of Mud Pit A (58-09-02 marked by four above-grade concrete monuments) which is approximately 60 ft west of the cover fence line.

Waste Item(s) Originally at Site	Apparent Waste Type*
Metal debris, wood, cloth and piping.	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

	
Housekeeping Site (berm) Prior to Closure (taken 02/13/1996)	Housekeeping Site After Closure (taken 06/07/2001)

Current Site Description/Observations:

This CAS was first identified by the IT Off-sites group in a site survey performed on February 13, 1996. The waste was scattered on a berm adjacent to UC-1 Mud Pit A (CAS 58-09-02). The berm measures approximately 320 ft long and 3 ft high. The waste was removed on June 23, 1998. The waste was discarded as sanitary trash. The current condition CAS 58-98-03 is clean of all discarded waste material.

No Further Action Required at Housekeeping Site

Kevin B. Campbell	/s/ Signature on file	07/16/2001
Corrective Action Coordinator/Designee	Signature	Date

Sector Housekeeping Site Closure Verification Form

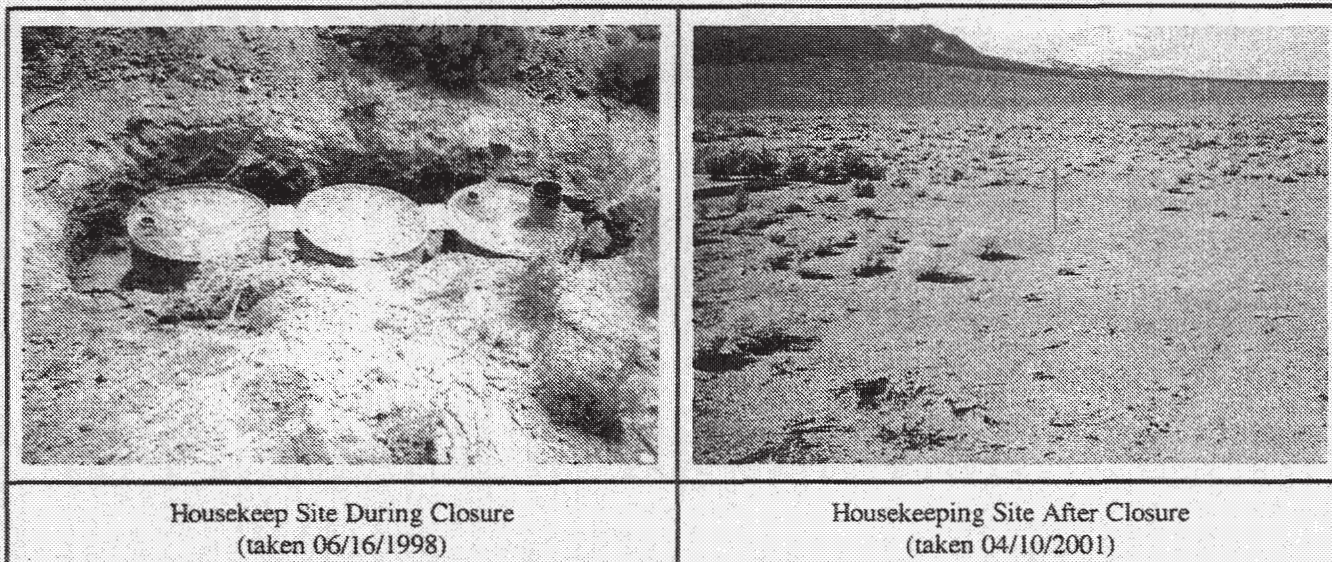
Closure Verification Date: 08/23/00
 CAS Number (if applicable): 58-05-03
 CAU Number (if applicable): 417
 Sector Designation: CNTA
 Housekeeping Site General Location: Central Nevada Test Site, UC-3
 Elevation: 1746.533 m
 Northing: 4,270,715.94 m (UTM Zone 11) Latitude: 38 35 02.7630
 Easting: 568,131.14 m (UTM Zone 11) Longitude: 116 13 07.1842

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take Moores Station road northwest for approximately 14 miles to a four way intersection. Go south (left) for approx. 2 miles, past the UC-3 access road, then west (right) for approx. 200 yards to UC-3 Recording Trailer Park. CAS 58-05-03 is located approx. 100 feet north of road and 10 feet east of a concrete slab.

Waste Item(s) Originally at Site	Apparent Waste Type*
Underground Storage Tank, soil	Ordinary / Scrap metal

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Current Site Description/Observations: This CAS was first identified by the IT Off-sites group on October 27, 1997. The UST (three 55 gallon drums) was removed on June 16, 1998. The drums and all hydrocarbon impacted soil were disposed of at the NTS hydrocarbon landfill. Soil sample results verified that all hydrocarbon impacted soil was removed during closure. The UST excavation was backfilled with clean soil. UST closure notification was sent by the DOE/NV to NDEP on 12/30/1998. The current condition of CAS 58-05-03 is clean closed.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file
 Signature

07/16/2001
 Date

Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 08/23/00
CAS Number (if applicable): 58-05-05
CAU Number (if applicable): 417
Sector Designation: CNTA
Housekeeping Site General Location: Central Nevada Test Site, UC-3
Elevation: 1756.937 m
Northing: 4,271,807.50 m (UTM Zone 11) **Latitude:** 38 35 38.1630
Easting: 568,171.37 m (UTM Zone 11) **Longitude:** 116 13 05.1375

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take Moores Station road northwest for approximately 14 miles to a four way intersection. Go south (left) for approx. 1.5 miles, then west (right) for approx. 200 yards to UC-3 Area. CAS 58-05-05 is located approx. 160 feet southeast of the UC-3 emplacement hole.

Waste Item(s) Originally at Site	Apparent Waste Type*
Septic tank	Ordinary

* Ordinary, Sharp Metal, Asbestos, PCB, Solvents, Hazardous, Radioactive, Mixed, Unknown, Other



Housekeeping Site During Closure
(taken 06/23/1998)



Housekeeping Site After Closure
(taken 06/07/2001)

Current Site Description/Observations: This CAS was first identified by the IT Off-sites group in a site visit on October 28, 1997. The tank was sampled, pumped (7,570 liters [2,000 gallons] of sludge was removed and disposed of at an approved facility), and backfilled with clean material on June 23, 1998. Acknowledge of septic tank closure was received by the NNSA/NV from the NV Department of Health on 3 May 2001. The current condition of CAS 58-05-05 is clean closed.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file
 Signature /

07/16/2001
 Date

Sectored Housekeeping Site Closure Verification Form

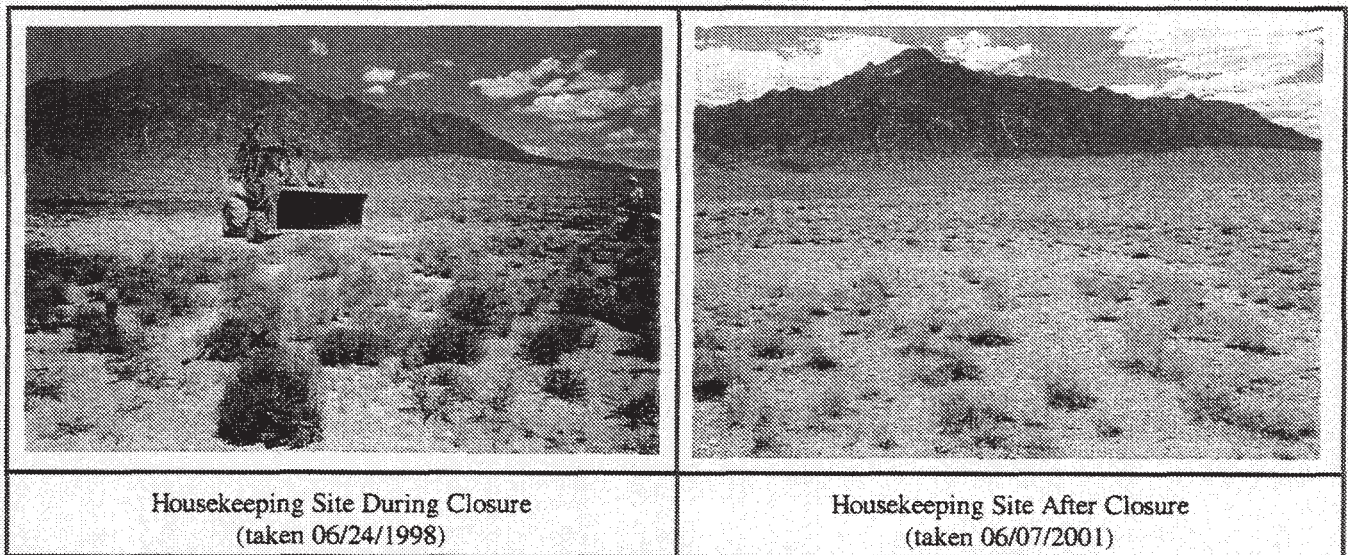
Closure Verification Date: 08/23/00
 CAS Number (if applicable): 58-05-06
 CAU Number (if applicable): 417
 Sector Designation: CNTA
 Housekeeping Site General Location: Central Nevada Test Site, UC-3
 Elevation: 1745.546 m
 Northing: 4,270,593.48 m (UTM Zone 11) Latitude: 38 34 58.8078
 Easting: 568,067.94 m (UTM Zone 11) Longitude: 116 13 09.8393

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take Moores Station road northwest for approximately 14 miles to a four way intersection. Go south (left) for approx. 2 miles, past the UC-3 access road, then west (right) for approx. 200 yards to UC-3 Recording Trailer Park. CAS 58-05-06 is located approx. 20 feet north of road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Concrete cast septic tank	Ordinary

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Current Site Description/Observations: This CAS was first identified by the IT Off-sites staff during a site visit on October 28, 1997. The tank was empty of liquid; a solid sample was collected in April 1998. Analysis showed no Contaminate of Concern above action levels. The septic tank was backfilled with clean material on June 24, 1998. Acknowledge of septic tank closure was received by the NNSA/NV from NV Department of Health on 3 May 2001. The current condition of CAS 58-05-06 is clean closed.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file
 Signature

07/16/2001
 Date

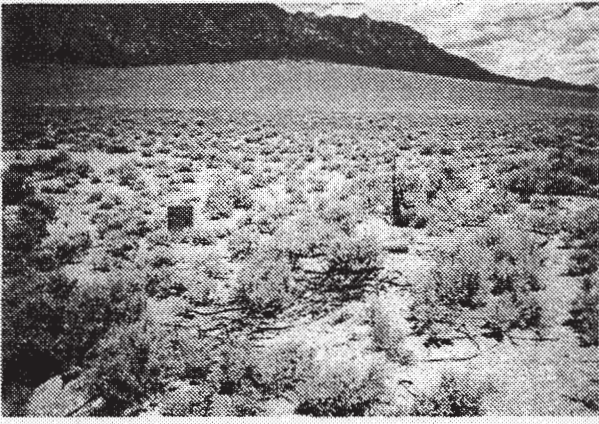
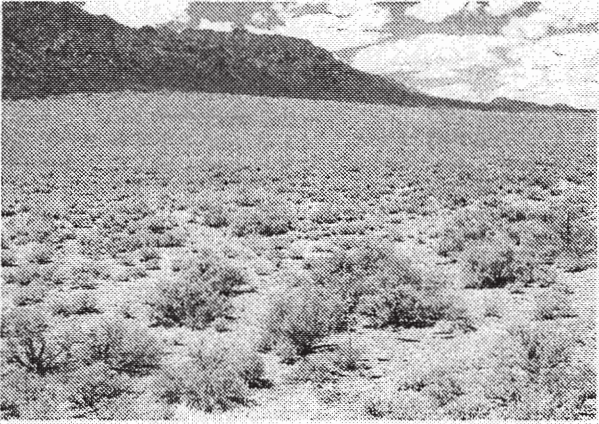
Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 08/23/00
CAS Number (if applicable): 58-98-01
CAU Number (if applicable): 417
Sector Designation: CNTA
Housekeeping Site General Location: Central Nevada Test Site, UC-3
Elevation: 1757.775 m
Northing: 4,271,920.85 m (UTM Zone 11) **Latitude:** 38 35 41.8931
Easting: 567,979.71 m (UTM Zone 11) **Longitude:** 116 13 13.0201
Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take Moores Station road northwest for approximately 14 miles to a four way intersection. Go south (left) for approx. 1.5 miles, then west (right) for approx. 200 yards to UC-3. CAS 58-98-01 is located approx. 90 ft west of the UC-3 emplacement hole on the west side of a low berm.

Waste Item(s) Originally at Site	Apparent Waste Type*
Trash and metal debris	Ordinary / scrap metal

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

	
Housekeeping Site Prior to Clean Up (taken 06/23/1998)	Housekeeping Site After Clean Up (taken 06/07/2001)

Current Site Description/Observations: This CAS was first identified by the IT Off-sites group in a site survey performed on February 13, 1996. The waste was removed on June 23, 1998. Scrap metal was sent to NTS salvage and the remainder disposed of at the NTS U10c Landfill. The current condition of CAS 58-98-01 is clean of all waste material.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file

Signature

07/16/2001

Date

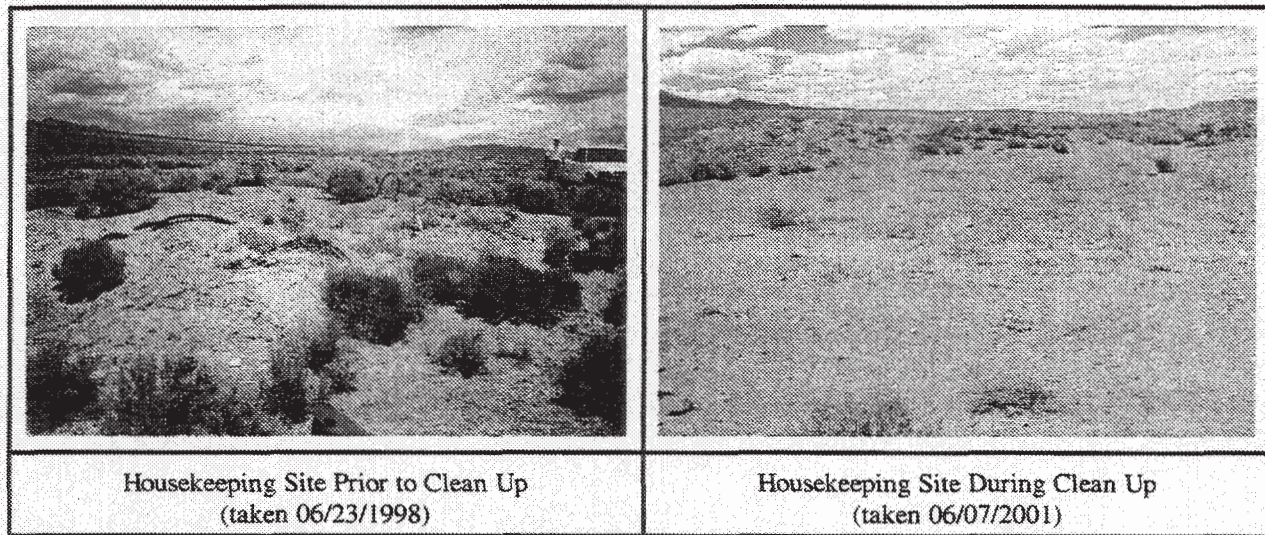
Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 08/23/00
CAS Number (if applicable): 58-98-02
CAU Number (if applicable): 417
Sector Designation: CNTA
Housekeeping Site General Location: Central Nevada Test Site, UC-3
Elevation: 1756.515 m
Northing: 4,271,747.60 m (UTM Zone 11) **Latitude:** 38 35 36.2717
Easting: 567,983.43 m (UTM Zone 11) **Longitude:** 116 13 12.9271
Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take Moores Station road northwest for approximately 14 miles to a four way intersection. Go south (left) for approx. 1.5 miles, then west (right) for approx. 200 yards to UC-3. CAS 58-98-02 is located approx. 185 ft southwest of the UC-3 emplacement hole.

Waste Item(s) Originally at Site	Apparent Waste Type*
Trash and metal debris	Ordinary / scrap metal

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other



Current Site Description/Observations: This CAS was first identified by the IT Off-sites group in a site survey performed on February 13, 1996. The waste was removed on June 23, 1998. Scrap metal was sent to NTS salvage and the remainder disposed of at the NTS U10c Landfill. The current condition CAS 58-98-02 is clean of all waste material.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file

Signature

Date

07/16/2001



Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 08/23/00
CAS Number (if applicable): 58-98-04
CAU Number (if applicable): 417
Sector Designation: CNTA
Housekeeping Site General Location: Central Nevada Test Site, UC-3
Elevation: 1756.172 m
Northing: 4,271,781.88 m (UTM Zone 11) **Latitude:** 38 35 37.3676
Easting: 568,041.96 m (UTM Zone 11) **Longitude:** 116 13 10.4957
Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take Moores Station road northwest for approximately 14 miles to a four way intersection. Go south (left) for approx. 1.5 miles, then west (right) for approx. 200 yards to UC-3. CAS 58-98-04 is located approx. 130 ft south of the UC-3 emplacement hole.

Waste Item(s) Originally at Site	Apparent Waste Type*
Trash and metal debris	Ordinary / scrap metal

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

	
No Before Photograph of Housekeeping Site Available	Housekeeping Site After Closure (taken 04/10/2001)

Current Site Description/Observations: This CAS was first identified by the IT Off-sites group in a site survey performed on February 13, 1996. The waste was removed on June 23, 1998. Scrap metal was sent to NTS salvage, remainder disposed of at the NTS U10c Landfill. The current condition of CAS 58-98-04 is clean of all waste material.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file
 Signature

07/16/2001
 Date

Sectored Housekeeping Site Closure Verification Form


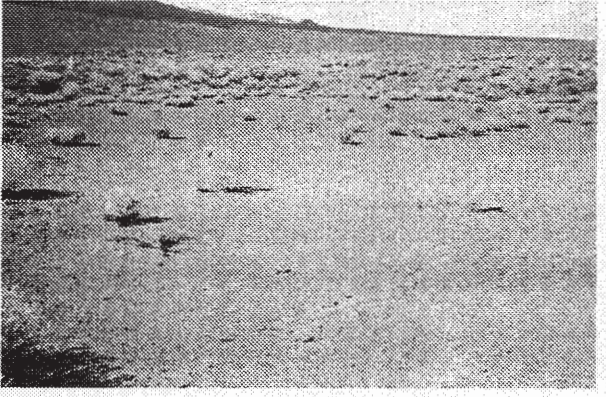
Closure Verification Date: 08/23/00
CAS Number (if applicable): 58-99-01
CAU Number (if applicable): 417
Sector Designation: CNTA
Housekeeping Site General Location: Central Nevada Test Site, UC-3
Elevation: 1757.074 m
Northing: 4,271,857.81 m (UTM Zone 11) **Latitude:** 38 35 39.7923
Easting: 568,181.68 m (UTM Zone 11) **Longitude:** 116 13 04.6936

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: From Tonopah, proceed northeast on Highway 6 for approximately 80 miles to Moores Station road. Take Moores Station road northwest for approximately 14 miles to a four way intersection. Go south (left) for approx. 1.5 miles, then west (right) for approx. 200 yards to UC-3. CAS 58-99-01 is located approx. 150 ft east of the UC-3 emplacement hole.

Waste Item(s) Originally at Site	Apparent Waste Type*
Underground storage tank - 55 gallon drums	Ordinary / scrap metal

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

	
Housekeeping Site During Closure (taken 06/16/1998)	Housekeeping Site After Closure (taken 04/10/2001)

Current Site Description/Observations:

This CAS was first identified by the IT Off-sites group on October 27, 1997. The UST (four 55 gallon drums) was removed on June 16, 1998. The drums and all hydrocarbon impacted soil were disposed of at the NTS hydrocarbon landfill. Soil sample results verified that all hydrocarbon impacted soil was removed during closure. The UST excavation was backfilled with clean soil. UST closure notification was sent by the DOE/NV to NDEP on 12/30/1998. The current condition of CAS 58-99-01 is clean closed.

No Further Action Required at Housekeeping Site

Kevin B. Campbell
 Corrective Action Coordinator/Designee

/s/ Signature on file

Signature

07/16/2001
 Date

APPENDIX E

**UC-3 UNDERGROUND STORAGE TANK AND SEPTIC
TANK CLOSURE DOCUMENTATION**

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KENNY C. GUINN
Governor



YVONNE SYLVA
Administrator

CHARLOTTE CRAWFORD
Director

MARY E. GUINAN, M.D., Ph.D.
State Health Officer

STATE OF NEVADA
DEPARTMENT OF HUMAN RESOURCES
HEALTH DIVISION
BUREAU OF HEALTH PROTECTION SERVICES

ERD.010508.0003

- Bureau Administration
1179 Fairview Drive, Ste. 201
Carson City, NV 89701-5405
(775) 687-6353
Fax (775) 687-5197
- Public Health Engineering
1179 Fairview Drive, Ste. 101
Carson City, NV 89701-5405
(775) 687-4754
Fax (775) 687-5699
- Drinking Water
State Revolving Fund
1179 Fairview Drive, Ste. 204
Carson City, NV 89701-5405
(775) 687-4750
Fax (775) 687-3218
- Radiological Health
1179 Fairview Drive, Ste. 102
Carson City, NV 89701-5405
(775) 687-5394
Fax (775) 687-5751
- Environmental Health
1179 Fairview Drive, Ste. 104
Carson City, NV 89701-5405
(775) 687-4750
Fax (775) 687-5751
- Health Protection Services
620 Belrose Street, Ste. 101
Las Vegas, NV 89107
Engineering and Food
(702) 486-5068
Radiological Health
(702) 486-5280
Fax (702) 486-5024
- Health Protection Services
850 Elm Street
Elko, NV 89801-3349
(775) 753-1138/1140
- Health Protection Services
475 W. Haskell Street, Rm. 38
Winnemucca, NV 89445
(775) 623-6588
- Health Protection Services
155 N. Taylor Street, Ste. 199
Fallon, NV 89406-3324
(775) 423-2281
- Health Protection Services
P.O. Box 939
Ely, NV 89301-0939
(775) 289-3325
- Health Protection Services
P.O. Box 667
Tonopah, NV 89049-0667
(775) 482-3997
- Health Protection Services
250 N. Highway 160, Ste. 5
Pahrump, NV 89048
(775) 751-7415

May 3, 2001

Runore Wycoff, Director
Environmental Restoration Division
DOE/NV Operations Office
P.O. Box 98518
Las Vegas, NV 89193-8518

RE: Abandonment of Septic Tanks at Central Nevada Test Site UC-3

Dear Mr. Wycoff:

An inspection was conducted by the Bureau of Health Protection Services on July 16, 1998 at the Central Nevada Test Site. The purpose of this inspection was to determine the status of two abandoned septic tanks that had served the site's Recording Trailer Park and Support Trailer Park.

This is to confirm the above referenced tanks have been abandoned in accordance with NAC 444.818(9).

If you have any questions, please contact me at 486-5068.

Sincerely,

/s/ James Larson

James H. Larson, P.E.
Public Health Engineer
Bureau of Health Protection Services

cc: Galen Denio, Manager, Public Health Engineering

ACTION	_____
INFO	ERD _____
MGR	✓ _____
AMBFS	_____
AMTS	_____
AMNS	_____
AMEM	✓ _____
AMPIA	_____

MAY 10 2001



Department of Energy

Nevada Operations Office

P. O. Box 98518

Las Vegas, NV 89193-8518

061455

DEC 30 1998

BECHTEL CGR REC'D

JAN 4 11 32 AM '99

Paul J. Liebendorfer, P.E., Chief
Department of Conservation and Natural Resources
Division of Environmental Protection
333 W. Nye Lane, Room 138
Carson City, NV 89706-0851

NOTIFICATION OF CLOSURE FOR TWO UNDERGROUND STORAGE TANKS (USTs) AT THE CENTRAL NEVADA TEST AREA (CNTA) CORRECTIVE ACTION UNIT (CAU) 417

Please find enclosed a copy of the U.S. Environmental Protection Agency (EPA) Form 7530-1, Notifications for USTs, which identifies two abandoned USTs that were permanently closed by removal. The two USTs were closed by removal from the UC-3 land withdrawal area at CNTA northeast of Tonopah, Nevada. The permanently closed tanks are as follows:

- CAS 58-99-01 UST located southeast of UC-3
- CAS 58-05-03 UST located at the UC-3 Recording Trailer Park

Samples of the UST contents were collected and analyzed for Total Petroleum Hydrocarbon (TPH), total Resource Conservation and Recovery Act metals, and Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX). Results for metals and BTEX were well below EPA Region 9 Preliminary Remediation Goals (PRGs). Complete analytical results are presented in the "Addendum to the Corrective Action Investigation Report for Central Nevada Test Area, CAU 417," DOE/NV-524-Addendum Appendix D, 1998. TPH results were below the Nevada state action level of 100 mg/kg. The tanks were removed on June 16, 1998.

During the tank removal activities, field screening tests indicated the presence of TPH in the soil at approximately one foot below the USTs. Hence, the area beneath each UST was over excavated until screening indicated clean soil was reached. The excavated soils and crushed tanks were transported to the Nevada Test Site Area 6 Hydrocarbon Landfill.

Verification soil samples were then collected from beneath each of the USTs at 5.5 feet and 11 feet below ground surface; i.e., at approximately 1 foot and 6.5 feet below each UST. The samples were analyzed for TPH by NEL Laboratories in Las Vegas, Nevada. Results for all

ENW 37-5

Paul J. Liebendorfer

-2-

DEC 30 1998

samples showed TPH present at less than 100 mg/kg, indicating the tank closures were clean. Enclosed, Table 1 is a summary of the analytical results for the collected verification samples. Also enclosed are copies of the certificates of the laboratory results for the TPH analyses.

Please direct any questions or comments to Peter A. Sanders, of my staff, at (702) 295-1037.

/s/ Runore Wycoff

for Runore C. Wycoff, Director
Environmental Restoration Division

ERD:PAS

Enclosures:
As stated

cc w/encls:
M. D. McKinnon, NDEP,
Las Vegas, NV

cc w/o encls:
K. K. Beckley, NDEP,
Carson City, NV
J. J. Johnson, NDEP,
Carson City, NV
D. A. Bedsun, DTRA,
Mercury, NV
P. S. Adams, IT,
Las Vegas, NV
T. J. White, IT,
Las Vegas, NV
D. D. Madsen, BN,
Mercury, NV
K. A. Hoar, ESHD, DOE/NV,
Las Vegas, NV
P. L. Hall, ERD, DOE/NV,
Las Vegas, NV

PETER G. MORROS, Director
ALLEN BIAGGI, Administrator
(775) 687-4670
TDD 687-4678
Administration
Water Pollution Control
Facsimile 687-5856
Mining Regulation and Reclamation
Facsimile 684-5259



Waste Management
Corrective Actions
Federal Facilities
Air Quality
Water Quality Planning
Facsimile 687-6396

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION

333 W. Nye Lane, Room 138
Carson City, Nevada 89706

May 29, 2001

Runore C. Wycoff, Director
Environmental Restoration Division
National Nuclear Security Administration
Nevada Operations Office
P.O. Box 98593-8518
Las Vegas, Nevada 89193-8518

ACTION	_____
INFO	ERD AMEM
MGR	✓
AMBFS	_____
AMTS	_____
AMNS	_____
AMEM	✓
AMPIA	_____

RE: Closure Documentation Received for Underground Storage Tanks; CAU 417 - Central Nevada Test Area

Dear Ms. Wycoff:

The Nevada Division of Environmental Protection (NDEP) has received the Underground Storage Tank Notification Form (USEPA Form 7530) for two underground storage tanks (USTs) that were discovered abandoned at the Central Nevada Test Area (CAU 417) during field operations in 1998. Along with a letter dated December 30, 1998 which accompanied the 7530 Form, the following information was provided:

- Two tanks were permanently closed on July 16, 1998;
- The tanks are numbered CAS 58-99-01 and CAS 58-05-03;
- The tanks were welded 55 gallon steel drums; were used to contain diesel; had approximate volumes of 220 and 165 gallons; and were last used in 1968.

During tank removal, field screening tests indicated the presence of TPH in soil below the USTs. Over-excavation was performed below each tank site until screening indicated clean soil had been reached. Removed soil and the crushed USTs were transported to the Nevada Test Site Area 6 Hydrocarbon Landfill. Confirmatory soil samples were collected as part of a site assessment as required by federal regulation 40 CFR Part 280.72 and analyzed for Total Petroleum Hydrocarbons (TPH). Results for all samples showed TPH concentrations at less than

Runore C. Wycoff

Page 2

May 29, 2001

the action level of 100 mg/kg. The highest reported sampling result was 81 mg/kg TPH at the south end of CAS 58-05-03.

Upon review of the data presented, the NDEP concurs that the tank removals and the subsequent removal of contaminated soils were done satisfactorily and conform to State of Nevada regulations. Confirmatory soil sampling results indicate that remaining TPH is below the State action level. The NDEP will not require remedial action involving these two tanks. No remedial action is based upon the information and data provided to date (7530 Form and December 30, 1998 DOE letter). This action is subject to the qualifications of the data and information presented. If future conditions warrant, NDEP may request further information, data, investigation and/or remediation.

Additionally, steps to formally close CAS 58-99-01 and CAS 58-05-03 must be completed under the provisions of the FFACO. These two CASs, along with the other CNTA surface sites, must be included in the Closure Report for CAU 417. If you have any questions regarding tank closure issues, please contact Sigurd Jaunarajs of my staff at (775) 687-4670, extension 3030.

Sincerely,

/s/ Paul Liebendorfer

Paul J. Liebendorfer, P.E. *U*
Chief
Bureau of Federal Facilities

PJL/SRJ/js

cc: Karen Beckley, NDEP/CC
Matt DeBurle, NDEP/CC
Patti Hall, ERD, NNSA/NV
Mike McKinnon, NDEP/LV
Monica Sanchez, ERD, NNSA/NV
Pete Sanders, ERD, NNSA/NV

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APPENDIX F

USE RESTRICTION DOCUMENTATION

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CAU Use Restriction Information

CAU Number/Description: CAU 417 (Central Nevada Test Area Surface, NV)

Applicable CAS Numbers/Descriptions: CAS No. 58-09-02 / UC-1 Mud Pit A

Contact (organization/project): NNSA/NV Off-Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NDA 27):

UC-1 MUD PIT A		
NE corner:	4276025.24 mN,	568570.16 mE
SE corner:	4275993.63 mN,	568579.76 mE
SW corner:	4275992.31 mN,	568559.58 mE
NW corner:	4276018.69 mN,	568551.31 mE

Survey Date 04/10/2001 **Survey Method (GPS, etc.)** Transit Survey **Datum** NAD 27

Site Monitoring Requirements: Visual inspections as specified in the Closure Report

Monitoring Frequency (quarterly, annually?): Inspections twice yearly to commence six months after the closure concurrence date.

Use Restrictions

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE, BLM or USFS activity that may alter or modify the containment control as approved by the state of Nevada and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Comments: See the Closure Report for additional information on the condition of the site(s) and any monitoring and/or inspection requirements.

Submitted By: _____ /s/ Signature on file **Date:** 7/03/01

Attachments: Survey Map

CAU Use Restriction Information

CAU Number/Description: CAU 417 (Central Nevada Test Area Surface, NV)

Applicable CAS Numbers/Descriptions: CAS No. 58-09-03 / UC-4 Mud Pit A

Contact (organization/project): NNSA/NV Off-Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NDA 27):

UC-4 MUD PIT A		
NE corner:	4281277.49 mN,	568013.92 mE
SE corner:	4281212.98 mN,	568003.57 mE
SW corner:	4281218.55 mN,	567976.45 mE
NW corner:	4281281.79 mN,	567981.55 mE

Survey Date 10/12/1999 **Survey Method (GPS, etc.)** Transit Survey **Datum** NAD 27

Site Monitoring Requirements: Visual inspections as specified in the Closure Report

Monitoring Frequency (quarterly, annually?): Inspections twice yearly to commence six months after the closure concurrence date.

Use Restrictions

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE, BLM or USFS activity that may alter or modify the containment control as approved by the state of Nevada and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Comments: See the Closure Report for additional information on the condition of the site(s) and any monitoring and/or inspection requirements.

Submitted By: /s/ Signature on file **Date:** 7/03/01

Attachments: Survey Map

CAU Use Restriction Information

CAU Number/Description: CAU 417 (Central Nevada Test Area Surface, NV)

Applicable CAS Numbers/Descriptions: CAS No. 58-09-03 / UC-4 Mud Pit B

Contact (organization/project): NNSA/NV Off-Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NDA 27):

UC4 MUD PIT B		
NE corner:	4281208.37 mN,	568003.03 mE
SE corner:	4281167.27 mN,	567997.03 mE
SW corner:	4281169.94 mN,	567974.11 mE
NW corner:	4281214.13 mN,	567976.22 mE

Survey Date 10/12/1999 **Survey Method (GPS, etc.)** Transit Survey **Datum** NAD 27

Site Monitoring Requirements: Visual inspections as specified in the Closure Report

Monitoring Frequency (quarterly, annually?): Inspections twice yearly to commence six months after the closure concurrence date.

Use Restrictions

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE, BLM or USFS activity that may alter or modify the containment control as approved by the state of Nevada and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Comments: See the Closure Report for additional information on the condition of the site(s) and any monitoring and/or inspection requirements.

Submitted By: _____ /s/ Signature on file **Date:** 7/03/01

Attachments: Survey Map

CAU Use Restriction Information

CAU Number/Description: CAU 417 (Central Nevada Test Area Surface, NV)

Applicable CAS Numbers/Descriptions: CAS No. 58-09-03 / UC-4 Mud Pit C

Contact (organization/project): NNSA/NV Off-Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NDA 27):

UC4 MUD PIT C fence corners

NE corner:	4281183.50 mN,	568081.68 mE
SE corner:	4281133.04 mN,	568072.66 mE
SW corner:	4281147.27 mN,	567994.55 mE
NW corner:	4281197.59 mN,	568003.72 mE

Survey Date 09/09/1999 **Survey Method (GPS, etc.)** Transit Survey **Datum** NAD 27

Site Monitoring Requirements: Visual inspections as specified in the Closure Report

Monitoring Frequency (quarterly, annually?): Inspections twice yearly to commence six months after the closure concurrence date.

Use Restrictions

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE, BLM or USFS activity that may alter or modify the containment control as approved by the state of Nevada and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Comments: See the Closure Report for additional information on the condition of the site(s) and any monitoring and/or inspection requirements.

Submitted By: 7/03/01 /s/ Signature on file **Date:** 7/03/01

Attachments: Survey Map

CAU Use Restriction Information

CAU Number/Description: CAU 417 (Central Nevada Test Area Surface, NV)

Applicable CAS Numbers/Descriptions: CAS No. 58-09-03 / UC-4 Mud Pit D

Contact (organization/project): NNSA/NV Off-Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NDA 27):

UC4 MUD PIT D

NE corner:	4281161.15 mN,	568134.18 mE
SE corner:	4281126.83 mN,	568119.03 mE
SW corner:	4281139.32 mN,	568075.08 mE
NW corner:	4281165.56 mN,	568081.63 mE

Survey Date 10/12/1999 **Survey Method (GPS, etc.)** Transit Survey **Datum** NAD 27

Site Monitoring Requirements: Visual inspections as specified in the Closure Report

Monitoring Frequency (quarterly, annually?): Inspections twice yearly to commence six months after the closure concurrence date.

Use Restrictions

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE, BLM or USFS activity that may alter or modify the containment control as approved by the state of Nevada and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Comments: See the Closure Report for additional information on the condition of the site(s) and any monitoring and/or inspection requirements.

Submitted By: _____ /s/ Signature on file **Date:** 7/03/01

Attachments: Survey Map

CAU Use Restriction Information

CAU Number/Description: CAU 417 (Central Nevada Test Area Surface, NV)

Applicable CAS Numbers/Descriptions: CAS No. 58-10-05 / UC-4 Area X

Contact (organization/project): NNSA/NV Off-Sites Project Manager

Surveyed Area (UTM coordinates, Zone 11, NDA 27):

UC4 AREA X		
NE corner:	4281282.40 mN,	568284.01 mE
SE corner:	4281267.38 mN,	568270.71 mE
SW corner:	4281287.77 mN,	568213.42 mE
NW corner:	4281325.98 mN,	568246.26 mE

Survey Date 09/28/2000 **Survey Method (GPS, etc.)** Transit Survey **Datum** NAD 27

Site Monitoring Requirements: Visual inspections as specified in the Closure Report

Monitoring Frequency (quarterly, annually?): Inspections twice yearly to commence six months after the closure concurrence date.

Use Restrictions

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE, BLM or USFS activity that may alter or modify the containment control as approved by the state of Nevada and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Comments: See the Closure Report for additional information on the condition of the site(s) and any monitoring and/or inspection requirements.

Submitted By: /s/ Signature on file **Date:** 7/03/01

Attachments: Survey Map

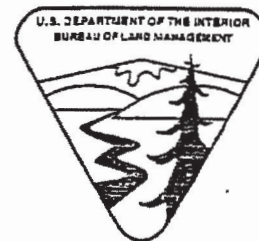
United States Department of the Interior

ERD. 010522.0002

FILE
MS



Bureau of Land Management
Tonopah Field Station
1553 S. Main Street
P.O. Box 911
Tonopah, Nevada 89049
(775)482-7800 Fax (775)482-7810



In Reply Refer to:
NV065-1640
65.01

MAY 21 2001

Runore C. Wycoff, Director
Environmental Restoration Div.
Department of Energy
Nevada Operations Office
P.O. Box 98518
Las Vegas, NV 89193-8518

**RE: Environmental Restoration Activities for the U.S. Department of Energy's
(DOE) Central Nevada Test Area, Hot Creek Valley, Nevada**

Dear Mr. Runore:

The Bureau of Land Management, Tonopah Field Station, is in receipt of DOE's document "Corrective Action Plan for Corrective Action Unit 417: Central Nevada Test Area Surface, Nevada." The document, which describes your planned environmental restoration activities on DOE land withdrawals in Hot Creek Valley, was received on or about April 16, 2000.

We look forward to receiving a copy of the completed Closure Report, which we understand will document the completed restoration activities at the DOE sites and offer information on land use restrictions on the withdrawn lands. Once the Closure Plan has been approved, we will incorporate the document into the official land withdrawal file.

If you have any questions, please contact Bill Fisher at (775) 482-7830.

Sincerely,

/s/ Craig MacKinnon

W. Craig MacKinnon
Assistant Field Manager, Tonopah

ACTION	_____
INFO	ERD
MGR	✓
AMBFS	_____
AMTS	_____
AMNS	_____
AMEM	✓
AMPIA	_____

APPENDIX G

**SAMPLING, INSPECTION, TESTING, AND
ACCEPTANCE (SITA) APPROVAL
MATRIX/CHECKLIST**

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SECTION II
SITA Plan Table I

REVISION : 0
DATE: 04-05-00

Site: UC-1 Central Mud Pit -- Preclosure Tasks

General instructions for using the SITA Plan Tables:

1. Acceptance and/or approval of tasks will be made by one (or more) of the SITA delegates (see Section I, Part 2.2 and Part 5.0 for guidance)
2. All task IIPs shall be initialed by the responsible SITA delegate prior to continuance to the next phase of construction.

Construction Phase	SITA Task	SITA Method(s)	Sample/Test Quantity/Frequency	Sample/Location/Requirement		Task Acceptance		Task Check Point (CP)
				Stockpile/Source	Per Lift Typical	Yes (or) No	Initials and Date	
General Information								
GENERAL INSPECTIONS/OBSERVATIONS -- See Specification Section 01050								
	General project support	Visual, plus basic measurements, include survey/material data where applicable	100% during construction	yes	yes	ABC	9/26/00	
	Lift/layer thickness	Grade check lift/layer thickness, as required	As required per lift/layer (see check points)	N/A	yes	ABC	9/11/00	
	As-built topographic survey	Survey check: thickness, elevations, slopes, as required	As required per construction phase (see hold points)	N/A	yes	ABC	9/26/00	
1	WEST DIVERSION CHANNEL EXCAVATION -- See Specification Section 02222 and Drawing No. C34							
	As-built topographic survey	Survey check: elevations, slopes, as required	After excavation completion	N/A	N/A	ABC	9/26/00	CP
2	NORTH DIVERSION CHANNEL EXCAVATION -- See Specific Section 02222 and Drawing No. C35							
	As-built topographic survey	Survey check: elevations, slopes, as required	After excavation completion	N/A	N/A	ABC	9/26/00	HP
3	TRENCH EXCAVATION -- See Specification Section 02222 and Drawing No. C29							

Construction Phase	SITA Task	SITA Method(s)	Sample/Test Quantity/Frequency	Sample/Location/Requirement		Task Acceptance		Task Check Point (CP)
				Stockpile/Source	Per Lift Typical	Yes (or) No	Initials and Date	
	As-built topographic survey	Survey check: elevations, slopes, as required	Other Instructions After excavation completion	N/A	N/A	yes	PBC 8/1/00	HP Just BN 8/2/00
4	IMPACTED MUD MATERIAL PLACEMENT (from Corrective Action Sites [C.A.Ss]) See Drawing C29							
	Placement only	Visual verification of mud placement in relocation trench completion	None	N/A	N/A	yes	PBC 8/23/00	CP
	As-built grade check	Grade check: thickness/elevations, as required	After mud placement completion	N/A	N/A	yes	PBC 8/23/00	HP
5	WEST BERM SOIL REMOVAL (Between Relocation Trench and CMP) -- See Specification Section 02222 and Drawing No. C29							
	As-built grade check	Grade check: elevations, slopes, as required	After excavation completion	N/A	N/A	yes	PBC 7/26/00	Released by J. Sorola HP
6	AGITATOR TOWER REMOVAL EIGHT LOCATIONS -- See Drawing No. C28							
	Tower removal	Removal of the pipe towers, as specified on the drawings	None	N/A	N/A	yes	PBC 7/26/00	CP
	Removal verified (8 locations)	Visual verification of completion and survey record location data as required	Photographs recommended	N/A	N/A	yes	PBC 7/26/00	CP
	Disposal	Towers placed in holding area for disposal	As directed by the Construction Superintendent	N/A	N/A	yes	PBC 7/26/00	CP
7	CMP EXISTING BERMS BENCHING -- See Specification Section 02222 and Drawing Nos. C30 and C31							
	As-built grade check	Grade check: elevations, slopes, as required	After benching and grade sloping completion	N/A	N/A	yes	PBC 8/2/00	Released by J. Sorola HP

Engineering
 Verbal from J. Sorola
 Elevations recorded by grade checks and OE
 Foreman on title III drawings

SECTION II

REVISION: 0

DATE: 04-05-00

SITA Plan Table II
Site: UC-1 Central Mud Pit -- Closure Tasks

General instructions for using the SITA Plan Tables:

1. Acceptance and/or approval of tasks will be made by one (or more) of the SITA delegates (see Section I, Part 2.2 and Part 5.0 for guidance)
2. All task HPs shall be initiated by the responsible SITA delegate prior to continuance to the next phase of construction.

Construction Phase	SITA Task	SITA Method(s)	Sample/Test Quantity/Frequency		Sample/Location/Requirement		Task Acceptance		Task Check Point (CP)
			Other Instructions	Stockpile/Source	Per Lift Typical	Yes (or) No	Initials and Date	Task Hold Point (HP)	
General Information	GENERAL INSPECTIONS/OBSERVATIONS -- See Specification Section 01050								
	General project support	Visual, plus basic measurements, include survey/material data where applicable	100% during construction	yes	yes	yes	yes	ABC 9/26/00	
	Lift/layer thickness	Grade check lift/layer thickness, as required	As required per lift/layer (see check points)	N/A	yes	yes	yes	ABC 9/26/00	
	As-built topographic survey	Survey check: thickness, elevation, slope, as required	As required per construction phase completion (see hold points)	N/A	yes	yes	yes	ABC 7/26/00	
1	GEOGRID LAYER PLACEMENT -- See Specification Section 07537 and Drawings C30 and C31								
	Preplacement notification	Contact DOE/PM and NDEP at least 48 hours prior to geogrid placement	None	N/A	N/A	N/A	N/A	ABC 7/20/00 7/24/00	Released by HP
	Placement only	Visual verification of completion	None	N/A	N/A	N/A	N/A	ABC 7/28/00	HP
2	STABILIZATION LAYER PLACEMENT (Contaminated Material from CASs)								

J. Sorala
7/20/00
7/24/00
7/28/00

Construction Phase	SITA Task	SITA Method(s)	Sample/Test Quantity/Frequency	Sample/Location/Requirement		Task Acceptance		Task Check Point (CP)
				Stockpile/Source	Per Lift Typical	Yes (or) No	Initials and Date	
	Placement only	Visual verification of completion	None	N/A	N/A	yes	KAC 8/17/00	CP
	As-built grade check	Grade check: thickness, elevations, as required	After contaminated material layer placement completion	N/A	N/A	yes	KAC 8/17/00	CP
3	STABILIZATION LAYER PLACEMENT (Native Material) -- See Specification Section 02223 and Drawings C32 and C33							
First	2-ft layer placement	Compaction process: minimum four passes with L.G.P equipment	None	N/A	yes	yes	KAC 8/18/00	CP
Second	2-ft layer placement	Compaction process: minimum four passes with L.G.P equipment	None	N/A	yes	yes	KAC 8/17/00	CP
	Grade check	Grade check: thickness, elevations, slopes, as required	After each layer/lift placement completion	N/A	yes	yes	KAC 8/17/00	CP
	As-built topographic survey	Survey check: thickness, elevations, slopes, as required	After native material layer placement completion	N/A	yes	yes	KAC 9/26/00	IIP
4	MONUMENTS, FENCING, & SIGNAGE PLACEMENT -- See Specification Sections 02831 & 03001 and Drawings C32 and C36							
	Monuments	Installation/survey data	Completion	N/A	N/A	yes	KAC 9/20/00	CP
	Fencing	Installation	Completion	N/A	N/A	yes	KAC 9/15/00	CP
	Signage	Installation	Completion	N/A	N/A	yes	KAC 9/15/00	CP
	Survey	Cap surface - final topographic survey -- as-built drawings	Final	N/A	N/A	yes	KAC 9/25/00	IIP
5	VEGETATIVE LAYER PROCEDURE (Placed Stabilization Layer Material)							
	Prepare cover only	Site prep: prior to placement of any vegetation disc/plow cover surface - avoiding the subsidence monuments	None	N/A	N/A	yes	KAC ripped 9/15/00 KAC Scheduled 9/20/00 KAC transplanted 9/10/01	IIP
6	UC-1 CMP CLOSURE CAP CONSTRUCTION COMPLETION							
	Site tour	Establish with DOE/PM (and notify)	None	N/A	N/A	yes	KAC 4/10/01	HP

Construction Phase	SITA Task	SITA Method(s)	Sample/Test Quantity/Frequency	Sample/Location/Requirement		Task Acceptance		Task Check Point (CP)
				Stockpile/Source	Per Lift Typical	Yes (or) No	Initials and Date	
	confirmation	NDEP) closure acceptance tour date/time				yes	ACC 4/10/01	Task Hold Point (HLP)
	Site tour	Closure acceptance/Sign-off	Final	N/A	N/A	yes	4/10/01 ACC	IIP

SECTION II

REVISION: 0

DATE: 04-05-00

SITA Plan Table III
Site: UC-1 Trench -- Closure Tasks

General instructions for using the SITA Plan Tables:

1. Acceptance and/or approval of tasks will be made by one (or more) of the SITA delegates (see Section I, Part 2.2 and Part 5.0 for guidance)
2. All task IIPs shall be initiated by the responsible SITA delegate prior to continuance to the next phase of construction.

Construction Phase	SITA Task	SITA Method(s)	Sample/Test Quantity/Frequency		Sample/Location/Requirement		Task Acceptance		Task Check Point (CP)
			Other Instructions	Stockpile/Source	Per Lift Typical	Yes (or) No	Initials and Date	Task Hold Point (HP)	
GENERAL INSPECTIONS/OBSERVATIONS -- See Specification Section 01050									
	General project support	Visual, plus basic measurements, include survey/material data where applicable	100% during construction	yes	yes	yes	yes	APB 9/26/00	
	Lift/layer thickness	Grade check lift/layer thickness, as required	As required per lift/layer (see check points)	N/A	yes	yes	yes	APB 9/26/00	
	As-built topographic survey	Survey check: thickness, elevation, slope, as required	As required per construction phase completion (see hold points)	N/A	yes	yes	yes	APB 8/1/00	As-built by empty trend
1 GEOGRID LAYER PLACEMENT -- See Specification Section 07537 and Drawings C30 and C31									
	Preplacement notification	Contact DOE/PM and NDEP at least 48 hours prior to geogrid placement	None	N/A	N/A	N/A	yes	APB 8/22/00	HP
	Placement only	Visual verification of completion	None	N/A	N/A	N/A	yes	APB 9/24/00	HP
2 STABILIZATION LAYER PLACEMENT (Contaminated Material from CAS)									

Construction Phase	SITA Task	SITA Method(s)	Sample/Test Quantity/Frequency	Sample/Location/Requirement		Task Acceptance		Task Check Point (CP)
				Stockpile/Source	Per Lift Typical	Yes (or) No	Initials and Date	
	Placement only	Visual verification of completion	None	N/A	N/A	yes	ABC 8/25/00	CP
	As-built grade check	Grade check: thickness, elevations, as required	After contaminated material layer placement completion	N/A	N/A	yes	ABC 8/25/00	CP
3	STABILIZATION LAYER PLACEMENT (Native Material) -- See Specification Section 02223 and Drawings C32 and C33							
First	2-ft layer placement	Compaction process: minimum four passes with LGP equipment	None	N/A	yes	yes	ABC 8/27/00	CP
Second	2-ft layer placement	Compaction process: minimum four passes with LGP equipment	None	N/A	yes	yes	ABC 9/11/00	CP
	Grade check	Grade check: thickness, elevations, slopes, as required	After each layer/lift placement completion	N/A	yes	yes	ABC 8/27/00 9/11/00	During CP
	As-built topographic survey	Survey check: thickness, elevations, slopes, as required	After native material layer placement completion	N/A	yes	yes	ABC 9/22/00	IIP
4	MONUMENTS, FENCING, & SIGNAGE PLACEMENT -- See Specification Sections 02831 & 03001 and Drawings C32 and C36							
	Monuments	Installation/survey data	Completion	N/A	N/A	yes	ABC 9/20/00	CP
	Fencing	Installation	Completion	N/A	N/A	yes	ABC 9/15/00	CP
	Signage	Installation	Completion	N/A	N/A	yes	ABC 9/15/00	CP
	Survey	Cap surface - final topographic survey -- as-built drawings	Final	N/A	N/A	yes	ABC 9/26/00	IIP
5	VEGETATIVE LAYER PROCEDURE (Placed Stabilization Layer Material)							
	Prepare cover only	Site prep: prior to placement of any vegetation disc/plow cover surface - avoiding the subsidence monuments	None	N/A	N/A	yes	ABC - Ripped 9/15/00 ABC - Sanded 9/20/00 ABC - Transplanted 9/10/01	
6	UC-1 TRENCH CLOSURE CAP CONSTRUCTION COMPLETION							
	Site tour	Establish with DOE/PM (and notify	None	N/A	N/A	yes	ABC 4/10/01	IIP

placement of
lifter, by
grade checker

Construction Phase	SITA Task	SITA Method(s)	Sample/Test Quantity/Frequency	Sample/Location/Requirement		Task Acceptance		Task Check Point (CP)
				Stockpile/Source	Per Lift Typical	Yes (or) No	Initials and Date	
	SITA Task confirmation	NDEP) closure acceptance tour date/time	Other Instructions			yes	RBC 4/10/01	Task Hold Point (HP)
	Site tour	Closure acceptance/Sign-off	Final	N/A	N/A	yes	4/12/01 RBC	IIP

APPENDIX H

POST-CLOSURE INSPECTION CHECKLISTS

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CAU 417: CNTA UC-1 CENTRAL MUD PIT COVER, POST-CLOSURE MONITORING CHECKLIST

Date of Last Inspection:	Reason for Last Inspection:
Responsible Agency:	Project Manager:
Inspection Date:	
Inspector (name, title, organization):	
Assistant Inspector (name, title, organization):	

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
3. Any checklist line item marked by an inspector in a SHADED BOX, must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, annotated site maps.
4. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
5. A standard set of color 35 mm photographs (or equivalent) is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photo log entry will be made for each photograph taken.
6. This unit will be inspected biannually with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photo log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Site as-built plans and site base map reviewed.			
2. Previous inspection reports reviewed.			
a. Were anomalies or trends detected on previous inspections?			
b. Was maintenance performed?			
3. Site maintenance and repair records reviewed.			
a. Has site repair resulted in a change from as-built conditions?			
b. Are revised as-builts available that reflect repair changes?			

C. SITE INSPECTION (To be completed during inspection)	YES	NO	EXPLANATION
1. Adjacent off-site features within watershed areas.			
a. Have there been any changes in use of adjacent area?			
b. Are there any new roads or trails?			
c. Has there been a change in the position of nearby washes?			
d. Has there been lateral excursion or erosion/deposition of nearby washes?			
e. Are there new drainage channels?			
f. Change in surrounding vegetation?			
2. Security fence, signs.			
a. Displacement of fences, site markers, boundary markers, or monuments?			
b. Have any signs been damaged or removed? (Number of signs replaced: _____)			
c. Were gates locked?			

CAU 417: CNTA UC-1 CENTRAL MUD PIT COVER, POST-CLOSURE MONITORING CHECKLIST

3. Waste Unit cover.

YES NO EXPLANATION

- a. Is there evidence of settling?
- b. Is there cracking?
- c. Is there evidence of erosion around the cap (wind or water)?
- d. Is there evidence of animal burrowing?
- e. Have the site markers been disturbed by man or natural processes?
- f. Do natural processes threaten to integrity of any cover or site marker?
- g. Other?

YES	NO	EXPLANATION

4. Vegetative cover.

- a. Is perimeter fence or mesh fencing damaged?
- b. Is there evidence of horses or rabbits on site?
- c. Is organic mulch and/or plants adequate to prevent erosion?
- d. Are weedy annual plants present? If yes, are they a problem?
- e. Are seeded plant species found on site?
- f. Is there evidence of plant mortality?

YES	NO	EXPLANATION

5. Photo Documentation

- a. Has a photo log been prepared?
- c. Number of photos exposed ()

YES	NO	EXPLANATION

D. FIELD CONCLUSIONS

- 1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)

YES	NO	EXPLANATION

Person/Agency to whom report made:

- 2. Are more frequent inspections required?
- 3. Are existing maintenance/repair actions satisfactory?
- 4. Is other maintenance/repair necessary?
- 5. Is current status/condition of vegetative cover satisfactory?

YES	NO	EXPLANATION

6. Rationale for field conclusions:

E. CERTIFICATION

I have conducted an inspection of the UC-1 Central Mud Pit Cover, CAU 417, at the Central Nevada Test Area in accordance with the Post-Closure Monitoring Plan (see Closure Report) as recorded on this checklist, attached sheets, field notes, photo logs, and photographs.

Chief Inspector's Signature:	Printed Name:
Title:	Date:

CAU 417: CNTA UC-4 MUD PIT C COVER, POST-CLOSURE INSPECTION CHECKLIST

Date of Last Inspection:	Reason for Last Inspection:
Responsible Agency:	Project Manager:
Inspection Date:	
Inspector (name, title, organization):	
Assistant Inspector (name, title, organization):	

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
3. Any checklist line item marked by an inspector in a SHADED BOX, must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, annotated site maps.
4. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
5. A standard set of color 35 mm photographs (or equivalent) is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photo log entry will be made for each photograph taken.
6. This unit will be inspected biannually with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photo log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Site as-built plans and site base map reviewed.			
2. Previous inspection reports reviewed.			
a. Were anomalies or trends detected on previous inspections?			
b. Was maintenance performed?			
3. Site maintenance and repair records reviewed.			
a. Has site repair resulted in a change from as-built conditions?			
b. Are revised as-builts available that reflect repair changes?			

C. SITE INSPECTION (To be completed during inspection)	YES	NO	EXPLANATION
1. Adjacent off-site features within watershed areas.			
a. Have there been any changes in use of adjacent area?			
b. Are there any new roads or trails?			
c. Has there been a change in the position of nearby washes?			
d. Has there been lateral excursion or erosion/deposition of nearby washes?			
e. Are there new drainage channels?			
f. Change in surrounding vegetation?			
2. Security fence, signs.			
a. Displacement of fences, site markers, boundary markers, or monuments?			
b. Have any signs been damaged or removed? (Number of signs replaced: _____)			
c. Were gates locked?			

CAU 417: CNTA UC-4 MUD PIT C COVER, POST-CLOSURE INSPECTION CHECKLIST

	YES	NO	EXPLANATION
3. Waste Unit cover.			
a. Is there evidence of settling?			
b. Is there cracking?			
c. Is there evidence of erosion around the cap (wind or water)?			
d. Is there evidence of animal burrowing?			
e. Have the site markers been disturbed by man or natural processes?			
f. Is the vegetation on the cover?			
g. Do natural processes threaten to integrity of any cover or site marker?			
h. Other?			

4. Photo Documentation			
a. Has a photo log been prepared?			
c. Number of photos exposed ()			

D. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)			
Person/Agency to whom report made:			
2. Are more frequent inspections required?			
3. Are existing maintenance/repair actions satisfactory?			
4. Is other maintenance/repair necessary?			
5. Is current status/condition of vegetative cover satisfactory?			
6. Rationale for field conclusions:			

E. CERTIFICATION

I have conducted an inspection of the UC-4 Mud Pit C Cover, CAU 417, at the Central Nevada Test Area in accordance with the Post-Closure Inspection Plan (see Closure Report) as recorded on this checklist, attached sheets, field notes, photo logs, and photographs.

Chief Inspector's Signature:	Printed Name:
Title:	Date:

APPENDIX I

NDEP DOCUMENT REVIEW SHEET

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DOCUMENT REVIEW SHEET

Document Title/Number: Closure Report for Corrective Action Unit 417: Central Nevada Test Area Surface, Nevada
 Document Date: July 2001
 Revision Number: 0
 Originator/Organization: Bechtel Nevada
 Reviewer/Organization: Nevada Division of Environmental Protection

Comment Number/ Location	Type ^a	Comment	Comment Response	Accept
1. Section 5.0 page 49.	M	The closure report was found to be deficient in that it does not explicitly state in Chapter 5.0 Post Closure Monitoring Plan that in the event that the UC-1 CMP cover was not performing as designed, or if the vegetative cover was not healthy and capable of performing the function of transpiring soil cover moisture as designed, that the NNSA/NV would take steps to repair, re-vegetate, or otherwise restore the soil cover or vegetation so that it meets design criteria.	Section 5.0 has been modified to state that specific compliance criteria for the UC-1 cover performance will be established once the soil moisture in the cover has reached equilibrium. Once equilibrium has been reached, if the cover is found to be not in compliance, a work plan detailing the proposed corrective actions will be prepared and submitted to the NDEP for approval prior to making corrective actions.	YES

DOCUMENT REVIEW SHEET

Comment Number/ Location	Type ^a	Comment	Comment Response	Accept
2. Seciton 5.0 page 49	M	<p>The Post Closure Monitoring Plan does state that if inspection results indicate that maintenance or repair of the cover or other site installations is required, that those repairs will be made and NDEP informed. However, no criteria are provided on which maintenance and repair decisions are to be based. What is required is a set of quantified criteria that will be used to make these decisions (e.g. subsidence distance or percentage over designed cover subsidence, depth or number of erosion rills in cover, diversion channel scour depth or distance of deviation from original channel).</p>	<p>See response to comment 1 above.</p> <p>If the UC-1 cover is not in compliance and/or if other site repairs are required the NNSA/NV will inform the NDEP and, if necessary, a work plan detailing the proposed corrective actions will be prepared and submitted to the NDEP for approval prior to making corrective actions.</p>	YES

DOCUMENT REVIEW SHEET

Comment Number/ Location	Type ^a	Comment	Comment Response	Accept
3. Section 4.2 page 47 and Appendix F	M	<p>Land-use restrictions are stipulated in Section 4.2 and exact coordinates are given in Appendix F. The U.S. Bureau of Land Management (BLM) has been informed of the impending closure (letter in Appendix F), but has not formally documented the land-use restrictions in its records. Final closure of CAU 417 and movement of CAU 417 from Appendix III to Appendix IV of the FFACO "Closed Corrective Action Units" will not occur until final recordation is made by BLM, in terms of appropriately incorporating the land use restrictions into the Land Withdrawal Record, and evidence of that action is received by NDEP.</p>	<p>This issue will be addressed in accordance with the procedure agreed to by the NDEP and the DOE.</p>	YES

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