Nevada
Environmental
Restoration
Project

DOE/NV/11718-289

Closure Report
For Housekeeping Category
Corrective Action Unit 297
Nevada Test Site, Nevada

Controlled Copy Number: _

Revision: 0

March 1999

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Environmental Restoration
Division

U.S. Department of Energy
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**CLOSURE REPORT
FOR HOUSEKEEPING CATEGORY
CORRECTIVE ACTION UNIT 297
NEVADA TEST SITE, NEVADA**

Controlled Copy No.:

Revision: 0

**Prepared for:
U. S. Department of Energy
Nevada Operations Office
Under Contract No. DE-AC08-96NV11718**

March 1999

PROJECT SUMMARY

Corrective Action Unit (CAU) 297 is located at the Nevada Test Site Area 25 Engine Maintenance and Disassembly Building (Building 3900). The CAU consists of one Corrective Action Site (CAS) 25-25-01 which includes two 38-liter (10-gallon) metal containers used in a closed vacuum pump oil recovery system for recirculating oil.

Closure for this site was completed on December 1, 1998 under the guidance of the Housekeeping Category Work Plan (Department of Energy, Nevada Operations Office, 1996) by completing the following activities:

- Two 38-liter (10-gallon) metal containers were removed.
- Associated piping was cut, removed, and sealed.
- Soil containing petroleum hydrocarbons were excavated to a maximum depth of approximately 46 centimeters (18 inches).
- The tanks, associated piping, and impacted soil were disposed of in the Area 6 Hydrocarbon Landfill on January 14, 1999.

Completing the closure activities at the site identified a hydrocarbon release associated with historical operations of the oil recovery system. The petroleum impacted soils are located in a significant power/utility corridor feeding into the building. The first of the underground utilities were identified at a depth of approximately 1 meter (3 feet) below ground surface. Due to the extent of the impacted area, confining work space limitations, proximity to utility lines, and limitations to the amount of excavated material for housekeeping closure activities, excavation activities were discontinued. Clean soil was used to backfill over the excavated area.

Following the closure requirements of the Housekeeping Work Plan, only one verification soil sample was collected below the removed containers and piping (EMAD-VPOR-1). Additional samples were collected for quality control (EMAD-VPOR-2) and waste disposition purposes. Samples were analyzed for total petroleum hydrocarbons, Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds, TCLP semi-volatile organic compounds, TCLP metals, polychlorinated biphenyls, and organochlorine pesticides.

The soil sample collected below the oil recovery containers and piping contained petroleum hydrocarbons (as oil) at a concentration of 5,200 milligrams per kilogram (mg/kg). This concentration exceeded the Nevada Administrative Code (NAC) Action Level of 100 mg/kg (NAC 445A.2272). A Spill Notification Report was completed on January 19, 1999 and Nevada Division of Emergency Management Number 99-0120-3281 was assigned.

Polychlorinated biphenyls (Arochlor 1254) were also detected in the excavated waste soils at a maximum concentration of 7.2 mg/kg, however, the concentrations are below the U.S. Environmental Protection Agency (EPA) Preliminary Remediation Goal concentration for industrial sites of 18 mg/kg (EPA, 1996).

No other constituents were detected above the analytical method detection limit. The analytical results and test methods are summarized on Table 1 and are detailed in the analytical data package. The table and data package are provided in Appendix A for reference and for use in supporting future characterization and/or closure activities.

Due to the extent of the impacted soil and the work area considerations, the spill associated with this site will be assigned as CAS 25-25-17 under CAU 398. The site will be tracked within Appendix II of the Federal Facility Agreement and Consent Order until corrective actions can be completed at a future date.

FFACO CORRECTIVE ACTION SITE HOUSEKEEPING CLOSURE VERIFICATION FORM

Closure Verification Date: Jan. 14, 1999

CAS Number: 25-25-01

CAU Number: 297

General Location: Area 25 Engine Maintenance
 Assembly & Disassembly (EMAD)

Elevation: 1071.6 meters
 (above mean sea level)

Latitude: 36.8062772

Northing: 622819.5

Longitude: -116.3046654

Easting: 532300.7

Coordinate/Elevation Data Obtained from IT. G.P.S. Survey Conducted on June 23, 1993.

Site Access Route: Proceed southwest on Mercury Highway to Jackass Flats Road. Turn right (northwest) on Jackass Flats Road (which turns into Road C at the Area 25 Guard Gate [Guard Station 500] and proceed to Road H. Turn left (west) on Road H and proceed to EMAD Road. Turn left (south) on EMAD Road and proceed to the EMAD Facility. The system is mounted on the southeast side of the building.

Waste Item(s) Originally at Site	Apparent Waste Type*
Two 10-gallon metal containers, associated piping, metal structure, and associated stained soil.	Other: four drums and four ladders of hydrocarbon-impacted soil, two metal containers, and associated piping.

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

CAS Status Prior To Cleanup
 Oct. 19, 1998

CAS Status After Cleanup
 Dec. 2, 1998

CAS Status Prior To Cleanup
Oct. 19, 1998

CAS Status After Cleanup
Dec. 2, 1998

Current Site Description/Observations: The two 10-gallon metal containers, associated piping, and support structure have been removed. The debris and excavated soil were disposed of in the Area 6 Hydrocarbon landfill on Jan. 14, 1999.

X **No Further Action Required at Corrective Action Site**

Jerry F. Bonn

Corrective Action Coordinator/Designee

(Signature)

3-18-99
Date

REFERENCES

Federal Facility Agreement and Consent Order, 1996, Agreed to by the Nevada Division of Environmental Protection, the U.S. Department of Energy, and the U.S. Department of Defense.

Nevada Administrative Code, 1998, NAC 445A.2272, "Contamination of Soil: Establishment of Action Levels." Carson City, NV.

U.S. Department Of Energy, Nevada Operations Office, 1996, *Housekeeping Category Corrective Action Unit Work Plan*, DOE/NV-452. Las Vegas, NV.

U.S. Environmental Protection Agency, 1996, Region 9 Preliminary Remediation Goals, San Francisco, CA.

APPENDIX A

ANALYTICAL TEST RESULTS

TABLE 1 - SUMMARY OF ANALYTICAL RESULTS FOR CAU 297: EMAD VACUUM PUMP OIL RECOVERY

SAMPLE ID & TYPE	TPH ^A (mg/kg)	TCLP VOCs ^B (mg/L)	TCLP SEMI- VOCs ^C (mg/L)	TCLP METALS ^D (mg/kg)	PCBs ^E (mg/kg)	ORGANO- CHLORINE PESTICIDES ^F (mg/kg)	GAMMA (pCi/g)
EMAD-VPOR-1 VERIFICATION	5,200	ND	ND	ND	ND	ND	NA
EMAD-VPOR-2 DUPLICATE OF EMAD-VPOR-1	1,700	ND	ND	ND	ND	ND	NA
EMAD-VPOR-3 WASTE CHARACTERIZATION (DRUMS)	4,700	ND	ND	ND	0.7 Arochlor-1254	ND	Cs-137 0.165 K-40 24.9 Ra-226 1.2 Th-228 2.28
EMAD-VPOR-4 WASTE CHARACTERIZATION (LUGGERS)	3,700	ND	ND	ND	7.2 Arochlor-1254	ND	K-40 19.6 Ra-226 1.01 Th-228 1.84 Th-232 1.26

All samples were collected on Dec. 1, 1998.

A-TPH: Total (extractable) petroleum hydrocarbons analyzed using U.S. EPA Method 8015 Modified.

B-TCLP VOCs: TCLP Volatile organic compounds analyzed using U.S. EPA Method 8260B.

C-TCLP Semi-VOCs: TCLP Semi-Volatile Organic Compounds analyzed using U.S. EPA Method 8270C.

D-TCLP Metals: Metals analyzed using U.S. EPA Method 7470. Extraction by Method 1311.

E-PCBs: Polychlorinated Biphenyls analyzed using U.S. EPA Method 8082.

F-Organochlorine Pesticides analyzed using U.S. EPA Method 8081A.

TCLP: Toxicity Characteristic Leaching Procedure (40 CFR, Part 261.24).

ND: Not detected above laboratory detection limits.

NA: Not analyzed.

(mg/L or mg/kg or pCi/g): milligrams per Liter (for liquid), milligrams per kilogram (for soil), picocuries per gram (for gamma spectroscopy).

NEL LABORATORIES

Reno • Las Vegas
Phoenix • Irvine

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 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: V553
PROJECT NUMBER: 17777

NEL ORDER ID: L9812048

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

Samples were received by NEL in good condition, under chain of custody on 12/3/98.

Samples were analyzed as received.

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

Some results have been flagged as follows:

- J - This concentration should be considered an estimate due laboratory control sample failure.
- Jc - This concentration should be considered an estimate. The continuing calibration check standard did not meet QC requirements for this analyte.
- Jm - This concentration should be considered an estimate due to probable matrix effects.

Some QA results have been flagged as follows:

- J - This concentration should be considered an estimate due laboratory control sample failure.
- Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Stan Van Wagenen
Laboratory Manager

12/31/98
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California		Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0583	Idaho	Certified	Certified	
California	1707	2002	2264	Montana	Certified	Certified	
US Army Corps of Engineers	Certified	Certified	Certified	Nevada	NV033	NV052	CA084

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-1
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-01

TEST: Organochlorine Pesticides by EPA 8081A, Dec. 1996

MATRIX: Solid
DILUTION: 1

EXTRACTED: 12/8/98
ANALYZED: 12/14/98

ANALYST: JRW

PARAMETER	Result	Reporting Limit
Aldrin	ND	5. µg/kg
alpha-BHC	ND	5. µg/kg
beta-BHC	ND	5. µg/kg
delta-BHC	ND	5. µg/kg
gamma-BHC (Lindane)	ND	5. µg/kg
Alpha-chlordane	ND	5. µg/kg
Gamma-chlordane	ND	5. µg/kg
Chlordane	ND	20. µg/Kg
4,4'-DDD	ND Jc	5. µg/kg
4,4'-DDE	ND J	5. µg/kg
4,4'-DDT	ND Jc	5. µg/kg
Dieldrin	ND	5. µg/kg
Endosulfan I	ND	5. µg/kg
Endosulfan II	ND Jc	5. µg/kg
Endosulfan sulfate	ND	5. µg/kg
Endrin	ND Jc	5. µg/kg
Endrin aldehyde	ND	5. µg/kg
Endrin ketone	ND	5. µg/kg
Heptachlor	ND Jc	5. µg/kg
Heptachlor epoxide	ND	5. µg/kg
Methoxychlor	ND Jc	20. µg/kg
Toxaphene	ND	60. µg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Decachlorobiphenyl	141	70 - 130
Tetrachloro-m-xylene	99	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-2
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-02

TEST: Organochlorine Pesticides by EPA 8081A, Dec. 1996

MATRIX: Solid

EXTRACTED: 12/8/98

DILUTION: 1

ANALYZED: 12/14/98

ANALYST: JRW

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aldrin	ND	5. µg/kg
alpha-BHC	ND	5. µg/kg
beta-BHC	ND	5. µg/kg
delta-BHC	ND	5. µg/kg
gamma-BHC (Lindane)	ND	5. µg/kg
Alpha-chlordane	ND	5. µg/kg
Gamma-chlordane	ND	5. µg/kg
Chlordane	ND	5. µg/kg
4,4'-DDD	ND Jc	20. µg/kg
4,4'-DDE	ND J	5. µg/kg
4,4'-DDT	ND Jc	5. µg/kg
Dieldrin	ND	5. µg/kg
Endosulfan I	ND	5. µg/kg
Endosulfan II	ND Jc	5. µg/kg
Endosulfan sulfate	ND	5. µg/kg
Endrin	ND Jc	5. µg/kg
Endrin aldehyde	ND	5. µg/kg
Endrin ketone	ND	5. µg/kg
Heptachlor	ND Jc	5. µg/kg
Heptachlor epoxide	ND	5. µg/kg
Methoxychlor	ND Jc	20. µg/kg
Toxaphene	ND	60. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	137	70 - 130
Tetrachloro-m-xylene	113	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-3
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-03

TEST: Organochlorine Pesticides by EPA 8081A, Dec. 1996

MATRIX: Solid

EXTRACTED: 12/8/98

DILUTION: 1

ANALYZED: 12/14/98

ANALYST: JRW

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Aldrin	ND	5. µg/kg
alpha-BHC	ND	5. µg/kg
beta-BHC	ND	5. µg/kg
delta-BHC	ND	5. µg/kg
gamma-BHC (Lindane)	ND	5. µg/kg
Alpha-chlordane	ND	5. µg/kg
Gamma-chlordane	ND	5. µg/kg
Chlordane	ND	20. µg/kg
4,4'-DDD	ND Jc	5. µg/kg
4,4'-DDE	ND J	5. µg/kg
4,4'-DDT	ND Jc	5. µg/kg
Dieldrin	ND	5. µg/kg
Endosulfan I	ND	5. µg/kg
Endosulfan II	ND Jc	5. µg/kg
Endosulfan sulfate	ND	5. µg/kg
Endrin	ND Jc	5. µg/kg
Endrin aldehyde	ND	5. µg/kg
Endrin ketone	ND	5. µg/kg
Heptachlor	ND Jc	5. µg/kg
Heptachlor epoxide	ND	5. µg/kg
Methoxychlor	ND Jc	20. µg/kg
Toxaphene	ND	60. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	113	70 - 130
Tetrachloro-m-xylene	94	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-4
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-04

TEST: Organochlorine Pesticides by EPA 8081A, Dec. 1996

MATRIX: Solid

EXTRACTED: 12/8/98

DILUTION: 1

ANALYZED: 12/14/98

ANALYST: JRW

PARAMETER	Result	Reporting Limit
Aldrin	ND	5. µg/kg
alpha-BHC	ND	5. µg/kg
beta-BHC	ND	5. µg/kg
delta-BHC	ND	5. µg/kg
gamma-BHC (Lindane)	ND	5. µg/kg
Alpha-chlordane	ND	5. µg/kg
Gamma-chlordane	ND	5. µg/kg
Chlordane	ND	20. µg/Kg
4,4'-DDD	ND Jc	5. µg/kg
4,4'-DDE	ND J	5. µg/kg
4,4'-DDT	ND Jc	5. µg/kg
Dieldrin	ND	5. µg/kg
Endosulfan I	ND	5. µg/kg
Endosulfan II	ND Jc	5. µg/kg
Endosulfan sulfate	ND	5. µg/kg
Endrin	ND Jc	5. µg/kg
Endrin aldehyde	ND	5. µg/kg
Endrin ketone	ND	5. µg/kg
Heptachlor	ND Jc	5. µg/kg
Heptachlor epoxide	ND	5. µg/kg
Methoxychlor	ND Jc	20. µg/kg
Toxaphene	ND	60. µg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Decachlorobiphenyl	125	70 - 130
Tetrachloro-m-xylene	102	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-1
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-01

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996

MATRIX: Solid

EXTRACTED: 12/8/98

DILUTION: 1

ANALYZED: 12/9/98

ANALYST: JRW

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Arochlor-1016	ND	20. µg/kg
Arochlor-1221	ND	20. µg/kg
Arochlor-1232	ND	20. µg/kg
Arochlor-1242	ND	20. µg/kg
Arochlor-1248	ND	20. µg/kg
Arochlor-1254	ND	20. µg/kg
Arochlor-1260	ND	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	205	70 - 130
Tetrachloro-m-xylene	100	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-2
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-02

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996

MATRIX: Solid

EXTRACTED: 12/8/98

DILUTION: 1

ANALYZED: 12/9/98

ANALYST: JRW

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Arochlor-1016	ND	20. µg/kg
Arochlor-1221	ND	20. µg/kg
Arochlor-1232	ND	20. µg/kg
Arochlor-1242	ND	20. µg/kg
Arochlor-1248	ND	20. µg/kg
Arochlor-1254	ND	20. µg/kg
Arochlor-1260	ND	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	70	70- 130
Tetrachloro-m-xylene	78	70- 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-3
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-03

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996

MATRIX: Solid

EXTRACTED: 12/8/98

DILUTION: 1

ANALYZED: 12/9/98

ANALYST: JRW

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Arochlor-1016	ND	20. µg/kg
Arochlor-1221	ND	20. µg/kg
Arochlor-1232	ND	20. µg/kg
Arochlor-1242	ND	20. µg/kg
Arochlor-1248	ND	20. µg/kg
Arochlor-1254	700 µg/kg	20. µg/kg
Arochlor-1260	ND	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	122	70 - 130
Tetrachloro-m-xylene	104	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-4
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-04

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996

MATRIX: Solid

EXTRACTED: 12/8/98

DILUTION: 10

ANALYZED: 12/9/98

ANALYST: JRW

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Arochlor-1016	ND	200. µg/kg
Arochlor-1221	ND	200. µg/kg
Arochlor-1232	ND	200. µg/kg
Arochlor-1242	ND	200. µg/kg
Arochlor-1248	ND	200. µg/kg
Arochlor-1254	7200 µg/kg	200. µg/kg
Arochlor-1260	ND	200. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	110	70 - 130
Tetrachloro-m-xylene	79	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 981208PCBS-BLK

TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996

METHOD: EPA 8082

MATRIX: Solid

ANALYST: JRW

EXTRACTED: 12/8/98

ANALYZED: 12/9/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Arochlor-1016	ND	20. µg/kg
Arochlor-1221	ND	20. µg/kg
Arochlor-1232	ND	20. µg/kg
Arochlor-1242	ND	20. µg/kg
Arochlor-1248	ND	20. µg/kg
Arochlor-1254	ND	20. µg/kg
Arochlor-1260	ND	20. µg/kg

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
Decachlorobiphenyl	122	70 - 130
Tetrachloro-m-xylene	123	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 981208PSTS-BLK

TEST: Organochlorine Pesticides by EPA 8081A, Dec. 1996
METHOD: EPA 8081
MATRIX: Solid

ANALYST: JRW
EXTRACTED: 12/8/98
ANALYZED: 12/14/98

PARAMETER	Result	Reporting Limit
Aldrin	ND	5. µg/kg
alpha-BHC	ND	5. µg/kg
beta-BHC	ND	5. µg/kg
delta-BHC	ND	5. µg/kg
gamma-BHC (Lindane)	ND	5. µg/kg
Alpha-chlordane	ND	5. µg/kg
Gamma-chlordane	ND	5. µg/kg
Chlordane	ND	5. µg/kg
4,4'-DDD	ND	20. µg/kg
4,4'-DDE	ND	5. µg/kg
4,4'-DDT	ND	5. µg/kg
Dieldrin	ND	5. µg/kg
Endosulfan I	ND	5. µg/kg
Endosulfan II	ND	5. µg/kg
Endosulfan sulfate	ND	5. µg/kg
Endrin	ND	5. µg/kg
Endrin aldehyde	ND	5. µg/kg
Endrin ketone	ND	5. µg/kg
Heptachlor	ND	5. µg/kg
Heptachlor epoxide	ND	5. µg/kg
Methoxychlor	ND	5. µg/kg
Toxaphene	ND	20. µg/kg
		60. µg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Decachlorobiphenyl	108	70 - 130
Tetrachloro-m-xylene	87	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-1
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-01

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.5 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Barium	ND	5. mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/8/98	12/9/98	12/9/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-2
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-02

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.5 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Barium	ND	5. mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/8/98	12/9/98	12/9/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-3
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-03

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.5 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Barium	ND	5. mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/8/98	12/9/98	12/9/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V553
PROJECT NUMBER: 17777

CLIENT ID: EMAD-VPOR-4
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-04

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.5 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Barium	ND	5. mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/8/98	12/9/98	12/9/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L12048-HG02-BLK

TEST: TCLP by EPA 1311, July 1992 & Mercury by EPA 7470A, July 1992
MATRIX: TCLP Extract

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>TCLP/STLC EXTRACTION</u>			
				<u>METHOD</u>	<u>DATE</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Mercury	ND	0.002mg/L	10	EPA 7470A	12/8/98	12/9/98	12/9/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L12048i-BLK

TEST: TCLP by EPA 1311, July 1992 & 7 Metals by EPA 6010A, July 1992
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION			
				METHOD	DATE	DIGESTED	ANALYZED
Arsenic	ND	0.5mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Barium	ND	5mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Cadmium	ND	0.05mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Chromium	ND	0.05mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Lead	ND	0.25mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Selenium	ND	0.5mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98
Silver	ND	0.1mg/L	5	EPA 6010	12/8/98	12/9/98	12/9/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: EMAD-VPOR-1
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-01

TEST: TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996

METHOD: EPA 8260A

TCLP EXTRACT DATE: 12/9/98

MATRIX: Solid

EXTRACTED: 12/11/98

DILUTION: 1

ANALYZED: 12/11/98

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	86	74 - 121
Dibromofluoromethane	93	80 - 120
Toluene-d8	99	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/1777
PROJECT #: 1777

CLIENT ID: EMAD-VPOR-1
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-01

TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996
METHOD: EPA 8270
MATRIX: Solid
DILUTION: 1

TCLP EXTRACT DATE: 12/8/98
EXTRACTED: 12/10/98
ANALYZED: 12/13/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	64	10 - 123
2-Fluorobiphenyl	67	43 - 116
2-Fluorophenol	37	21 - 100
Nitrobenzene-d5	60	35 - 114
p-Terphenyl-d14	69	33 - 141
Phenol-d5	25	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: EMAD-VPOR-2
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-02

TEST: TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996
METHOD: EPA 8260A
MATRIX: Solid
DILUTION: 1

TCLP EXTRACT DATE: 12/9/98
EXTRACTED: 12/11/98
ANALYZED: 12/11/98

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	74 - 121
Dibromofluoromethane	95	80 - 120
Toluene-d8	99	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: EMAD-VPOR-2
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-02

TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996
METHOD: EPA 8270
MATRIX: Solid
DILUTION: 1

TCLP EXTRACT DATE: 12/8/98
EXTRACTED: 12/10/98
ANALYZED: 12/13/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND Jm	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND Jm	0.1 mg/L
Hexachloroethane	ND Jm	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND Jm	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND Jm	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	60	10 - 123
2-Fluorobiphenyl	47	43 - 116
2-Fluorophenol	9 Jm	21 - 100
Nitrobenzene-d5	20 Jm	35 - 114
p-Terphenyl-d14	65	33 - 141
Phenol-d5	13	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: EMAD-VPOR-3
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-03

TEST: TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996
METHOD: EPA 8260A
MATRIX: Solid
DILUTION: 1

TCLP EXTRACT DATE: 12/9/98
EXTRACTED: 12/11/98
ANALYZED: 12/11/98

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
1-Bromofluorobenzene	86	74 - 121
Dibromofluoromethane	93	80 - 120
Toluene-d8	99	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: EMAD-VPOR-3
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-03

TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996
METHOD: EPA 8270
MATRIX: Solid
DILUTION: 1

TCLP EXTRACT DATE: 12/8/98
EXTRACTED: 12/10/98
ANALYZED: 12/13/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND Jm	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND Jm	0.1 mg/L
Hexachloroethane	ND Jm	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND Jm	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND Jm	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	66	10 - 123
2-Fluorobiphenyl	43	43 - 116
2-Fluorophenol	11 Jm	21 - 100
Nitrobenzene-d5	17 Jm	35 - 114
o-Terphenyl-d14	66	33 - 141
Phenol-d5	13	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: EMAD-VPOR-4
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-04

TEST: TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996
METHOD: EPA 8260A
MATRIX: Solid
DILUTION: 1

TCLP EXTRACT DATE: 12/9/98
EXTRACTED: 12/11/98
ANALYZED: 12/11/98

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
1-Bromofluorobenzene	88	74 - 121
Dibromofluoromethane	95	80 - 120
Toluene-d8	99	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: EMAD-VPOR-4
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-04

TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996
METHOD: EPA 8270
MATRIX: Solid
DILUTION: 1
TCLP EXTRACT DATE: 12/8/98
EXTRACTED: 12/10/98
ANALYZED: 12/13/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	67	10 - 123
2-Fluorobiphenyl	67	43 - 116
2-Fluorophenol	35	21 - 100
Nitrobenzene-d5	58	35 - 114
p-Terphenyl-d14	60	33 - 141
Phenol-d5	25	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V553/17777
PROJECT #: 17777

CLIENT ID: TB-120198
DATE SAMPLED: 12/1/98
NEL SAMPLE ID: L9812048-05

TEST: TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996
METHOD: EPA 8260B
MATRIX: Aqueous
DILUTION: 1

TCLP EXTRACT DATE: 12/11/98
EXTRACTED: 12/11/98
ANALYZED: 12/11/98

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	86	86 - 115
Dibromofluoromethane	95	86 - 118
Toluene-d8	99	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: Soil Testing Apex Industrial Use Zone/3745
PROJECT #: 37456-002-16

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 121098-E3-TCLP-BLK

TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996
METHOD: EPA 8270
MATRIX: TCLP Extract
TCLP EXTRACT DATE: 12/8/98
EXTRACTED: 12/10/98
ANALYZED: 12/13/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	67	10 - 123
2-Fluorobiphenyl	67	43 - 116
2-Fluorophenol	43	21 - 100
Nitrobenzene-d5	60	35 - 114
p-Terphenyl-d14	62	33 - 141
Phenol-d5	29	10 - 94
ND - Not Detected		

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NEL LABORATORIES

CLIENT:	Bechtel Nevada	CLIENT ID:	Method Blank
PROJECT ID:	Soil Testing Apex Industrial Use Zone/3745	DATE SAMPLED:	NA
PROJECT #:	37456-002-16	NEL SAMPLE ID:	981211-TCLP-BLK
TEST:	TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996		
METHOD:	EPA 8260A	TCLP EXTRACT DATE:	12/9/98
MATRIX:	TCLP Extract	EXTRACTED:	12/11/98
		ANALYZED:	12/11/98

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	74 - 121
Dibromofluoromethane	91	80 - 120
Toluene-d8	100	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: Soil Testing Apex Industrial Use Zone/3745
PROJECT #: 37456-002-16

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 981211ATCLP-BLK

TEST: TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996

METHOD: EPA 8260B

MATRIX: TCLP Extract

TCLP EXTRACT DATE: 12/11/98

EXTRACTED: 12/11/98

ANALYZED: 12/11/98

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	86 - 115
Dibromofluoromethane	91	86 - 118
Toluene-d8	100	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada

PROJECT NAME: V553

PROJECT NUMBER: 17777

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996

METHOD: EPA 8015M

MATRIX: Solid

ANALYST: SEJ

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/kg	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
EMAD-VPOR-1	12/1/98	L9812048-01	5200	O	2000. mg/kg	130 %	12/9/98	12/14/98
EMAD-VPOR-2	12/1/98	L9812048-02	1700 Jm	O	100. mg/kg	145 %	12/9/98	12/11/98
EMAD-VPOR-3	12/1/98	L9812048-03	4700	O	200. mg/kg	100 %	12/9/98	12/15/98
EMAD-VPOR-4	12/1/98	L9812048-04	3700	O	200. mg/kg	130 %	12/9/98	12/11/98

CR: Carbon Range

O Oil Range Organics (C12 to C32).

Note: The reporting limit for Oil Range Organics in soil is 50 mg/kg.

QUALITY CONTROL DATA (Total for Gas and Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 981209STP -BLK	ND	< 10. mg/kg	78 %	NA
LCS, 981209STP - LCS	61 %	57.5 - 114 %	107 %	NA

ND - Not Detected

* Surrogate used was Octacosane, acceptance limits 60-121% for aqueous samples, 54-130% for solid samples.

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V553/17777
 PROJECT #: 17777
 TEST: Organochlorine Pesticides by EPA 8081A, Dec. 1996
 MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Aldrin	981208PSTS-LCS	33.3	32.6	98	73 - 128	
Aldrin	981208PSTS-LCSD	33.3	32.3	97	73 - 128	0.9
Aldrin	L9812048-02-MS	33.3	32	96	73 - 128	
Aldrin	L9812048-02-MSD	33.3	37	111	73 - 128	14.5
alpha-BHC	981208PSTS-LCS	33.3	33.3	100	68 - 133	
alpha-BHC	981208PSTS-LCSD	33.3	32	96	68 - 133	4.
beta-BHC	981208PSTS-LCS	33.3	36	108	71 - 136	
beta-BHC	981208PSTS-LCSD	33.3	35.6	107	71 - 136	1.1
delta-BHC	981208PSTS-LCS	33.3	34	102	69 - 133	
delta-BHC	981208PSTS-LCSD	33.3	33	99	69 - 133	3.
gamma-BHC (Lindane)	981208PSTS-LCS	33.3	32.3	97	69 - 125	
gamma-BHC (Lindane)	981208PSTS-LCSD	33.3	32	96	69 - 125	0.9
gamma-BHC (Lindane)	L9812048-02-MS	33.3	29	87	69 - 125	
gamma-BHC (Lindane)	L9812048-02-MSD	33.3	33.6	101	69 - 125	14.7
Alpha-chlordane	981208PSTS-LCS	33.3	34.3	103	63 - 120	
Alpha-chlordane	981208PSTS-LCSD	33.3	30.3	91	63 - 120	12.4
Gamma-chlordane	981208PSTS-LCS	33.3	33	99	68 - 126	
Gamma-chlordane	981208PSTS-LCSD	33.3	33	99	68 - 126	0.
4,4'-DDD	981208PSTS-LCS	33.3	38	114	76 - 127	
4,4'-DDD	981208PSTS-LCSD	33.3	36.3	109	76 - 127	4.6
4,4'-DDE	981208PSTS-LCS	33.3	50.6	152 J	62 - 143	
4,4'-DDE	981208PSTS-LCSD	33.3	37.3	112	62 - 143	30.3
4,4'-DDT	981208PSTS-LCS	33.3	50.9	153 J	70 - 151	
4,4'-DDT	981208PSTS-LCSD	33.3	38.6	116	70 - 151	27.5
4,4'-DDT	L9812048-02-MS	33.3	11.7	35 JI	70 - 151	
4,4'-DDT	L9812048-02-MSD	33.3	11.6	35 JI	70 - 151	1.
Dieldrin	981208PSTS-LCS	33.3	38.6	116	84 - 135	
Dieldrin	981208PSTS-LCSD	33.3	37	111	84 - 135	4.2
Dieldrin	L9812048-02-MS	33.3	36.3	109	84 - 135	
Dieldrin	L9812048-02-MSD	33.3	43.3	130	84 - 135	17.6
Endosulfan I	981208PSTS-LCS	33.3	42.6	128	57 - 161	
Endosulfan I	981208PSTS-LCSD	33.3	43.3	130	57 - 161	1.6
Endosulfan II	981208PSTS-LCS	33.3	38.6	116	76 - 137	
Endosulfan II	981208PSTS-LCSD	33.3	30.6	92	76 - 137	23.1
Endosulfan sulfate	981208PSTS-LCS	33.3	39.6	119	74 - 144	
Endosulfan sulfate	981208PSTS-LCSD	33.3	33.6	101	74 - 144	16.4
Endrin	981208PSTS-LCS	33.3	38.6	116	75 - 146	
Endrin	981208PSTS-LCSD	33.3	37	111	75 - 146	4.2

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V553/17777
 PROJECT #: 17777
 TEST: Organochlorine Pesticides by EPA 8081A, Dec. 1996
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Endrin	L9812048-02-MS	33.3	21	63 JI	75 - 146	
Endrin	L9812048-02-MSD	33.3	22	66 JI	75 - 146	4.7
Endrin aldehyde	981208PSTS-LCS	33.3	44	132	71 - 173	
Endrin aldehyde	981208PSTS-LCSD	33.3	34.6	104	71 - 173	23.9
Endrin ketone	981208PSTS-LCS	33.3	37	111	90 - 160	
Endrin ketone	981208PSTS-LCSD	33.3	31	93	90 - 160	17.6
Heptachlor	981208PSTS-LCS	33.3	32	96	70 - 134	
Heptachlor	981208PSTS-LCSD	33.3	31.6	95	70 - 134	1.3
Heptachlor	L9812048-02-MS	33.3	17	51 JI	70 - 134	
Heptachlor	L9812048-02-MSD	33.3	18.6	56 JI	70 - 134	9.
Heptachlor epoxide	981208PSTS-LCS	33.3	32	96	75 - 129	
Heptachlor epoxide	981208PSTS-LCSD	33.3	32	96	75 - 129	0.
Methoxychlor	981208PSTS-LCS	33.3	33.6	101	55 - 173	
Methoxychlor	981208PSTS-LCSD	33.3	32.3	97	55 - 173	3.9

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V553/17777
 PROJECT #: 17777
 TEST: PCB's (Polychlorinated Biphenyls) by EPA 8082, Dec. 1996
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Arochlor-1016	981208PCBS-LCS	333	326	98	70 - 130	
Arochlor-1016	981208PCBS-LCSD	333	289	87	70 - 130	12.
Arochlor-1016	L9812048-02-MS	333	354	106	70 - 130	
Arochlor-1016	L9812048-02-MSD	333	403	121	70 - 130	4.1
Arochlor-1260	981208PCBS-LCS	333	309	93	70 - 130	
Arochlor-1260	981208PCBS-LCSD	333	261	78	70 - 130	16.8
Arochlor-1260	L9812048-02-MS	333	317	95	48 - 129	
Arochlor-1260	L9812048-02-MSD	333	373	112	48 - 129	16.2

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V553/17777
 PROJECT #: 17777
 TEST: TCLP/STLC Metals
 MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Arsenic	L12048i-LCS	0.5	0.495	99	85 - 115	
Arsenic	L9812048-02-MS	0.5	0.51	102	75 - 125	
Arsenic	L9812048-02-MSD	0.5	0.506	101	75 - 125	0.8
Mercury	L12048-HG02-LCS	0.005	0.00522	104	85 - 115	
Mercury	L9812048-02-MS	0.05	0.0559	112	75 - 125	
Mercury	L9812048-02-MSD	0.05	0.0566	113	75 - 125	1.2
Silver	L12048i-LCS	0.5	0.463	93	85 - 115	
Silver	L9812048-02-MS	0.5	0.466	93	75 - 125	
Silver	L9812048-02-MSD	0.5	0.472	94	75 - 125	1.3
Barium	L12048i-LCS	1	1.11	111	85 - 115	
Barium	L9812048-02-MS	1	0.95	95	75 - 125	
Barium	L9812048-02-MSD	1	0.955	96	75 - 125	0.5
Cadmium	L12048i-LCS	0.2	0.188	94	85 - 115	
Cadmium	L9812048-02-MS	0.2	0.198	99	75 - 125	
Cadmium	L9812048-02-MSD	0.2	0.197	99	75 - 125	0.5
Chromium	L12048i-LCS	0.5	0.486	97	85 - 115	
Chromium	L9812048-02-MS	0.5	0.49	98	75 - 125	
Chromium	L9812048-02-MSD	0.5	0.494	99	75 - 125	0.8
Lead	L12048i-LCS	1	0.927	93	85 - 115	
Lead	L9812048-02-MS	1	1.05	105	75 - 125	
Lead	L9812048-02-MSD	1	1.01	101	75 - 125	3.9
Selenium	L12048i-LCS	0.5	0.526	105	85 - 115	
Selenium	L9812048-02-MS	0.5	0.576	115	75 - 125	
Selenium	L9812048-02-MSD	0.5	0.531	106	75 - 125	8.1

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada

PROJECT ID: V553/17777

PROJECT #: 17777

TEST: TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996

MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
1,4-Dichlorobenzene (p-DCB)	121098-E3-TCLP-LCS	80	51.5	64	36 - 97	
1,4-Dichlorobenzene (p-DCB)	121098-E3-TCLP-LCSD	80	54.2	68	36 - 97	5.1
2,4-Dinitrotoluene (DNT)	121098-E3-TCLP-LCS	80	56.4	71	24 - 96	
2,4-Dinitrotoluene (DNT)	121098-E3-TCLP-LCSD	80	61.5	77	24 - 96	8.7
Pentachlorophenol	121098-E3-TCLP-LCS	80	56.8	71	9 - 103	
Pentachlorophenol	121098-E3-TCLP-LCSD	80	62.5	78	9 - 103	9.6

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada

PROJECT ID: V553/17777

PROJECT #: 17777

TEST: TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996

MATRIX: Solid

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
1,1-Dichloroethene (1,1-DCE)	981211-TCLP-LCS	50	54.09	108	70 - 130	
1,1-Dichloroethene (1,1-DCE)	L9812048-02-MS	50	41	82	61 - 145	
1,1-Dichloroethene (1,1-DCE)	L9812048-02-MSD	50	43	86	61 - 145	4.8
Benzene	981211-TCLP-LCS	50	45.9	92	70 - 130	
Benzene	L9812048-02-MS	50	40	80	76 - 127	
Benzene	L9812048-02-MSD	50	39	78	76 - 127	2.5
Chlorobenzene	981211-TCLP-LCS	50	49.75	100	70 - 130	
Chlorobenzene	L9812048-02-MS	50	44	88	75 - 130	
Chlorobenzene	L9812048-02-MSD	50	42	84	75 - 130	4.7
Toluene	981211-TCLP-LCS	50	45	90	70 - 130	
Toluene	L9812048-02-MS	50	33	66 JI	76 - 125	
Toluene	L9812048-02-MSD	50	34	68 JI	76 - 125	2.5
Trichloroethene (TCE)	981211-TCLP-LCS	50	42.8	86	70 - 130	
Trichloroethene (TCE)	L9812048-02-MS	50	38	76	71 - 120	
Trichloroethene (TCE)	L9812048-02-MSD	50	37	74	71 - 120	2.7

ND - Not Detected

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Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Environmental Restoration
CAU 297 EMAD
J. F. Bonn, M/S NTS306

Report Date: 8-DEC-98
Sample Delivery Group: B979
Batch: 0861
Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	MDC	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
EMAD-VPOR-3	CS137	GAM20	1.65E-01	6.1E+01		5.8E-02	pCi/g	12-02-98	12-01-98	5.15E+02	gm	SOIL G			05-01	H0177-0-7527
EMAD-VPOR-3	K 40	GAM20	2.49E+01	2.0E+01		7.0E-01	pCi/g	12-02-98	12-01-98	5.15E+02	gm	SOIL G			05-01	H0177-0-7527
EMAD-VPOR-3	RA226	GAM20	1.20E+00	2.8E+01		1.7E-01	pCi/g	12-02-98	12-01-98	5.15E+02	gm	SOIL G			05-01	H0177-0-7527
EMAD-VPOR-3	TH228	GAM20	2.28E+00	1.9E+01		1.6E-01	pCi/g	12-02-98	12-01-98	5.15E+02	gm	SOIL G			05-01	H0177-0-7527
EMAD-VPOR-3	TH232	GAM20	2.41E+00	3.1E+01		3.3E-01	pCi/g	12-02-98	12-01-98	5.15E+02	gm	SOIL G			05-01	H0177-0-7527
EMAD-VPOR-4	K 40	GAM20	1.96E+01	2.1E+01		6.5E-01	pCi/g	12-02-98	12-01-98	7.52E+02	gm	SOIL G			05-01	H0177-1-7527
EMAD-VPOR-4	RA226	GAM20	1.01E+00	3.0E+01		1.5E-01	pCi/g	12-02-98	12-01-98	7.52E+02	gm	SOIL G			05-01	H0177-1-7527
EMAD-VPOR-4	TH228	GAM20	1.84E+00	2.0E+01		1.5E-01	pCi/g	12-02-98	12-01-98	7.52E+02	gm	SOIL G			05-01	H0177-1-7527
EMAD-VPOR-4	TH232	GAM20	1.26E+00	4.1E+01		3.0E-01	pCi/g	12-02-98	12-01-98	7.52E+02	gm	SOIL G			05-01	H0177-1-7527
QA BKG EMPTY BTL U05	No Nucl Det	GAM20	0.00E+00	0.0E+00	U	0.0E+00	NA	12-02-98	07-01-98	1.00E+00	gm	QUAL			05-01	Q0631-0-0034

Comment:

Data generated from 20 minute gamma spectroscopy of samples
submitted to the laboratory on 12/2/98.

Prepared by: [Signature] Date: 12/8/98

Approved by: [Signature] Date: 12/10/98

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Environmental Restoration
CAU 297 EMAD
J. F. Bonn, M/S NTS306

Report Date: 8-DEC-98
Sample Delivery Group: B979.
Batch: 0861
Program: 500

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	MDA	Result Units	Analysis Date	Sample Coll Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
QA BKG EMPTY BTL U05	AM241	GAM20	0.00E+00	0.0E+00	U	2.0E+01	pCi	12-02-98	07-01-98	1.00E+00	sm	QUAL			05-01	Q0631-0-003
QA BKG EMPTY BTL U05	CO60	GAM20	0.00E+00	0.0E+00	U	1.3E+01	pCi	12-02-98	07-01-98	1.00E+00	sm	QUAL			05-01	Q0631-0-003
QA BKG EMPTY BTL U05	CS137	GAM20	0.00E+00	0.0E+00	U	6.2E+00	pCi	12-02-98	07-01-98	1.00E+00	sm	QUAL			05-01	Q0631-0-003
QA SP:NAS-A0271	AM241	GAM20	1.80E+05	8.8E+00		2.7E+02	pCi	12-02-98	04-01-92	1.00E+00	sm	QUAL		110.8	05-01	Q0630-3-162
QA SP:NAS-A0271	CO60	GAM20	2.96E+05	8.6E+00		2.1E+02	pCi	12-02-98	04-01-92	1.00E+00	sm	QUAL		99.4	05-01	Q0630-3-162
QA SP:NAS-A0271	CS137	GAM20	2.04E+05	8.1E+00		5.8E+01	pCi	12-02-98	04-01-92	1.00E+00	sm	QUAL		100.6	05-01	Q0630-3-162

Comment:

Data generated from 20 minute gamma spectroscopy of samples
submitted to the laboratory on 12/2/98.

Prepared by: [Signature]

Date: 12/8/98

Approved by: [Signature]

Date: 12/10/98

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma

***** End of Report *****

PROJECT/CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION					
Project: CAU 297 EMAD VPORS BN Org#: 2152				Send Report to: JERRY BONN				Sampling Site: EMAD VACUAMP QL RE					
Charge No.: GTOIF03 ASL Prog.:				Phone: 5-7341		Fax: 5-7761		M/S: NTS306		The samples submitted contain (check): () Hazardous () Radioactive (X) Uncontamination. If known, attach a brief narrative summary identifying contaminants. This information will ensure compliance with applicable regulations and allow for the handling of the sample materials.			
Project Manager: JERRY BONN				Turnaround: () Standard - 30 days Non-rad, 60 Days Rad, Other: (X) Rush Preliminary by: DEC. 16 Final by: DEC. 30									
Phone: 5-7341 Fax: 5-7761 M/S: NTS306				Final report format: () Standard (X) NTS-WAC () Other:									
LAB USE ONLY				ANALYSES & METHOD				SAMPLE RECEIPT INFORMATION					
Rad SGD: B979 Non-Rad SGD: V558981				Method 1811/ Method 1311/823D Method 8260 Method 8080 Method 8015 Modified Gamma 20 min. 12/10				Are all sample containers received intact () Yes Comments:					
Rad Packet: H0177 Non-Rad Packet: W1584								Do the labels agree with this form? () Yes Comments:					
Client Services Representative:								Was a Material Clearance Tag submitted? () Yes Comments:					
Will these analyses be performed under a signed SOW? (X) YES () NO If so, do analyses entered here agree with the SOW? (X) YES () NO () N/A If not, identify the variation _____ CSR initials indicating review and approval: _____ Date: _____													
ID / DESCRIPTION				SAMPLING DATE TIME MATRIX				COMMENTS (Preservative, size/volume, MS/MSD special analysis, rad matrix code, count time)					
0 EMAD - VPOR - 1 12/1/98 1505 SOIL				✓ ✓ ✓ ✓ ✓				01 12/8/2048-01					
1 EMAD - VPOR - 2 12/1/98 1515 SOIL				✓ ✓ ✓ ✓ ✓				02 MS/MSD					
2 EMAD - VPOR - 3 12/1/98 1535 SOIL				✓ ✓ ✓ ✓ ✓				03 X-5					
3 EMAD - VPOR - 4 12/1/98 1545 SOIL				✓ ✓ ✓ ✓ ✓				04 X-7					
4 TB - 120198 12/1/98 0730 WATER				✓				05 TRIP BLANK (CEL preserved)					
5								Custody Seal Intact? (X) Y None Temp 102°F					
6								Condition when received (good)					
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)		Relinquished (BN Representative Signature)		DATE / TIME		Received (Courier & Tracking)			
Paul Nye BN ER		12-2-98 8:15pm		CD Castaneda		CD Castaneda		12/3/98/1300		BN COURIER			
						Relinquished (Courier & Tracking Info.)		DATE / TIME		Received (1st tier Subcontractor)			
						Jim Couriar		12/3/98/1800		Plus M			
						Relinquished (1st tier Subcontractor Rep)		DATE / TIME		Received (2nd tier Subcontractor)			

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