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Nevada
Environmental
Restoration
Project

DOE/NV--566

Streamlined Approach for
Environmental Restoration
Closure Report for Corrective
Action Unit 461: Joint Test
Assembly Sites
Tonopah Test Range, Nevada

Controlled Copy No.

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Revision: 0

September 1999

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**STREAMLINED APPROACH FOR ENVIRONMENTAL
RESTORATION CLOSURE REPORT FOR
CORRECTIVE ACTION UNIT 461:
JOINT TEST ASSEMBLY SITES
TONOPAH TEST RANGE, NEVADA**

Controlled Copy No.____

Revision: 0

September 1999

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

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RESTORATION CLOSURE REPORT FOR
CORRECTIVE ACTION UNIT 461:
JOINT TEST ASSEMBLY SITES
TONOPAH TEST RANGE, NEVADA**

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ACRONYMS AND ABBREVIATIONS

CAS	Corrective Action Site
CAU	Corrective Action Unit
cm	centimeter
CR	Closure Report
DOE	U.S. Department of Energy
DU	Depleted Uranium
EOD	Explosive Ordnance Disposal
FFACO	Federal Facility Agreement and Consent Order
ft	feet
HE	High Explosive
in	inches
JTA	Joint Test Assembly
m	meter
m ³	cubic meters
NDEP	Nevada Division of Environmental Protection
NTS	Nevada Test Site
No.	Number
RWMS	Radioactive Waste Management Site

ACRONYMS AND ABBREVIATIONS (continued)

SAFER	Streamlined Approach for Environmental Restoration
SNL	Sandia National Laboratories
TCLP	Toxicity Characteristic Leaching Procedure
TTR	Tonopah Test Range
UXO	Unexploded Ordnance
yd ³	cubic yards

EXECUTIVE SUMMARY

This report addresses the closure of Corrective Action Unit (CAU) 461, Joint Test Assembly (JTA) Sites identified in Appendix III of the Federal Facility Agreement and Consent Order (FFACO). Closure was completed following the approved Streamlined Approach for Environmental Restoration Work Plan. The site is located at the Tonopah Test Range in south central Nevada. CAU 461 consists of three Corrective Action Sites (CASs): CAS Number (No.) TTR-001 (1987 W79 JTA), CAS No. TA-52-003-0960 (Depleted Uranium [DU] Artillery Round No. 2), and CAS No. TA-52-002-TAML (DU Impact Site). The 1987 W79 JTA was believed to be the impact site of a failed artillery round test package containing DU and high explosives (HE). Based on review of historical documentation two potential sites were identified. The two sites were designated as DU Round 1A and 1B. DU Artillery Round No. 2 was a detonated, buried W79 20-centimeter (cm) (8-inch [in]) diameter DU artillery round located under two witness bars. The DU Impact Site is an area 55 meters (m) by 50 meters (m) (180 feet [ft] by 160 feet [ft] of disturbed ground containing metal fragments and DU impacted soil from a failed weapons test. Historical documentation and fragment examination suggest that during the 1960s, a 150-cm (60-in) diameter weapons test unit incurred parachute failure, impacted, and released DU.

Closure activities began on November 16, 1998, with the installation of three-strand barbed wire fence around each site. Waste characterization samples were collected at the DU Impact Site on November 18, 1998. Excavation activities began on November 22, 1998, at CAS TTR-001 (1987 W79 JTA). A backhoe was used to excavate the two areas that were possible locations for the artillery round. Excavation revealed no radiologically impacted soil, ordnance related debris, or HE residue at DU Round 1A. Excavation at DU Round 1B revealed various pieces of metallic debris. This debris was not related to air drop packages or projectiles. No unexploded ordnance, HE residue, or radiological contamination was present on the debris or the surrounding soil.

Closure activities at CAS TA-52-003-0960 (DU Artillery Round No. 2) began on November 30, 1998. Radiologically impacted soil and debris were excavated to a depth of 5.3 m (17.5 ft) and placed into nine B-25 boxes. Verification samples were collected on December 8, 1998. The analytical results did not detect any constituents of concern in any of the verification samples. A final radiological survey was conducted and the results indicate the site is free of radiological contamination.

Closure activities at CAS TA-52-002-TAML (DU Impact Site) began on November 18, 1998 with the collection of waste characterization samples. Closure activities began on January 13, 1999 and included scraping the top 5-7.6 cm (2-3 in) of soil and excavating any remaining hot spots. A central hot spot was excavated to 2.7 m (9 ft). Soil and debris were placed into 35 burrito-lined 15.3 cubic meter (m³) (20 cubic yard [yd³]) side dump trucks. After all impacted soil was removed, verification samples were collected. The analytical results indicate no DU

remaining. A final radiological survey was conducted and the results indicate the site is free of depleted uranium.

After determining that no impacted soil was present at any of the CASs, the fencing was removed and the excavations were backfilled, compacted to 80 percent, and graded. Each excavation was surveyed to provide locations for future reference.

A final geophysical survey was done. The surveys were completed on March 3 (DU Round 1A) and July 7, 1999, (DU Rounds 1B, DU Round 2, and the DU Impact Site). The geophysical survey results indicated no unaccounted anomalies were present at any of the sites.

Closure for this CAU was completed following the approved Streamlined Approach for Environmental Restoration Work Plan as a clean closure. Therefore, the U.S. Department of Energy, Nevada Operations Office requests that a Notice of Completion be issued by the Nevada Department of Environmental Protection, and the Joint Test Assembly Sites, CAU 461, be moved from Appendix III to Appendix IV of the FFACO "Closed Corrective Action Units."

1.0 INTRODUCTION

This closure report (CR) provides documentation for the closure of Corrective Action Unit (CAU) 461, Joint Test Assembly (JTA) Sites. The CAU is currently listed in Appendix III of the Federal Facility Agreement and Consent Order (FFACO) (Nevada Division of Environmental Protection [NDEP] et. al, 1996). The CAU is located at the Tonopah Test Range (TTR) in south central Nevada (Figure 1). CAU 461 consists of three Corrective Action Sites (CASs), CAS Number (No.) TTR-001 (1987 W79 JTA), CAS No. TA-52-003-0960 (Depleted Uranium [DU] Artillery Round No. 2), and CAS No. TA-52-002-TAML (DU Impact Site) (Figure 2).

CAS No. TTR-001 consisted of a potentially unexploded W79 JTA 20-centimeter (cm) (8-inch [in]) diameter test artillery projectile containing high explosives (HE) and DU. Two areas (designated as DU Round No. 1A and 1B) were identified as possible locations for this CAS. DU Round 1A consisted of two low soil mounds and DU Round 1B consisted of a small depression.

CAS No. TA-52-003-0960 consisted of a detonated, buried W79 20-cm (8-in) diameter DU artillery round which is located under two witness bars.

CAS No. TA-52-002-TAML is an area 55 meters (m) by 50 meters (m) (180 feet [ft] by 160 feet [ft]) of disturbed ground containing metal fragments and DU with soil from a failed weapons test. Historical documentation and examination of metal fragments suggest that during the 1960s, a 150-cm (60-in) diameter weapons test unit incurred parachute failure, impacted, and released DU.

1.1 PURPOSE

The purpose of this CR is to:

- C Document the closure activities as proposed in the Streamlined Approach for Environmental Restoration (SAFER) Closure Plan (U.S. Department of Energy [DOE], 1998a).
- C Obtain a Notice of Completion from the NDEP.
- C Recommend the movement of CAU 461 from Appendix III to Appendix IV of the FFACO.

FIGURE 1
TTR LOCATION MAP

FIGURE 2
LOCATION OF CORRECTIVE ACTION UNIT 461

1.2 SCOPE

The following is the scope of the closure actions for CAU 461:

- C Install barbed wire fence around the areas to be excavated.
- C Excavate identified magnetic anomalies. Each area was excavated in 0.3-m (1.0-ft) lifts and the excavated soil was surveyed for radiological constituents and magnetic anomalies. Excavation activities were stopped if DU rounds were not detected at a depth of 3 m (10 ft). Excavation at DU Round No. 2 was stopped after all the DU impacted soil was removed. This occurred at a depth of 5.3 m (17.5 ft) below ground surface.
- C Verification soil samples were collected at DU Round No. 2 and the DU Impact site.
- C Remove barbed wire fence.
- C Backfill the excavations with either the excavated soil or clean soil and compacted the soil to 80 percent.
- C Perform a final radiological survey of DU Round No. 2 and DU Impact sites.
- C Survey corners and center point of excavations.
- C Perform a final geophysical survey on excavations to verify that no unaccounted magnetic anomalies are present at any of the sites.
- C Return the site to unrestricted use.

Closure of CAU 461 was completed using the SAFER Work Plan, Revision 0, dated August 1998 (DOE, 1998a). This SAFER closure is based on the results of a geophysical survey (SAIC, 1998) and process knowledge of the Constituents of Concern. Verification samples were collected since the SAFER Work Plan (DOE, 1998a) specified that they are required if artillery rounds or impacted soil was encountered.

1.3 CONTENTS

This CR is divided into the following sections:

- C Section 1.0 - Introduction
- C Section 2.0 - Closure Activities
- C Section 3.0 - Waste Disposition
- C Section 4.0 - Closure Verification Results
- C Section 5.0 - Conclusions
- C Section 6.0 - References

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2.0 CLOSURE ACTIVITIES

This section of the CR details the specific activities involved in the closure of CAU 461 Joint Test Assembly Sites (CAS No. TTR-001, CAS No. TA-52-003-0960, and CAS No. TA-52-002-TAML).

2.1 DESCRIPTION OF CORRECTIVE ACTION ACTIVITIES

Before field activities began, the following pre-field activities were completed:

- C Preparation of National Environmental Policy Act documentation.
- C Preparation of the Site-Specific Health & Safety Plan (Bechtel Nevada, 1998), Radiological Work Permit and Bioassay Plan.
- C Preparation of the Field Management Plan (DOE, 1998b).
- C An As Low As Reasonably Achievable Committee review of the proposed activities.

2.1.1 CAS TTR-001 (DU Round No. 1A)

Closure activities at CAU 461 began on November 16, 1998, with the installation of a three-strand barbed wire fence around each site. Excavation activities began on November 22, 1998 at CAS No. TTR-001 (DU Round No. 1A). A backhoe was used to excavate the possible artillery round areas that were identified in the geophysics report (SAIC, 1998). A Sandia National Laboratories (SNL) Explosive Ordnance Disposal (EOD) specialist using a hand-held magnetometer was on-site during excavation activities. The EOD specialist was on-site to provide technical assistance in identifying any ordnance-related debris. The excavations were conducted in 0.3-m (1-ft) lifts. Radiological Control Technicians ran radiological instrument surveys on the excavated soil and inside the excavation prior to excavation of each subsequent lift. All personnel not directly involved with excavation activities were located at a safe distance of 914 m (3,000 ft) away from excavation activities.

Excavation proceeded until a depth of 3 m (10 ft) was reached. The approved SAFER Work Plan (DOE, 1998a) specifies a depth of 3m (10 ft) as a hold/decision point. If no elevated radiologic or magnetometer readings are detected then excavation activities are stopped. During the DU Round No. 1A site excavation activities radiologically impacted soil or ordnance-related debris was not found at either of the two soil mounds. The hand-held magnetometer did not detect any magnetic anomalies in the excavation below the 3-m (10-ft) depth. However, the final geophysical survey (Appendix A) indicated an anomaly at DU Round 1A South. The site was revisited on April 20-21, 1999 and the area of the anomaly was reexcavated. The area was

excavated to a depth of 1.7 m (5.5 ft). No artillery round, debris, or radiologically impacted soil was observed. A lens of iron-bearing gravel was located by the geophysical instruments which corresponded with the anomaly identified at the surface. Instrument sweeps indicated no anomalies below this level. Based on this information, it was determined that an artillery round did not exist at this site.

After it was determined that an artillery round was not present at this site, the barbed wire fence was removed and the excavation was backfilled, compacted to 80 percent, and graded. The site was then staked and surveyed (Appendix B). Backfill compaction test results are provided in Appendix C.

2.1.2 CAS TTR-001 (DU Round No. 1B)

Excavation activities began at CAS No. TTR-001 (DU Round No. 1B) on November 23, 1998, using the same procedures used at DU Round No. 1A. Various metallic objects were uncovered at a depth of 0.9 m (3 ft) below ground surface. The objects were mostly iron, steel, and aluminum and range in size from 5 cm (2 in) to 0.5 m (1.5 ft). The SNL EOD specialist identified the debris as rocket parts, not air-drop packages or projectiles (DU artillery rounds). Most of the debris was subjected to a high-order detonation. There was no unexploded ordnance (UXO) associated with any of this debris and an instrument and swipe survey indicated that radiological contamination was not present. The surrounding soil was also free from radiological contamination and HE residue based on instrument surveys and visual observations, respectively.

Excavation activities were stopped at a depth of 1.5 m (5 ft) when no more debris was uncovered. The hand-held magnetometer confirmed that no additional magnetic anomalies were located below this depth. This was later confirmed during the final geophysical survey (Appendix A). Based on the large variety of debris and lack of HE residue and radiological contamination, it is unlikely that a DU round was detonated here. This was probably an area where debris from other demilitarization activities and scrap items were disposed. Based on this information, it was determined that an artillery round did not exist at this site.

After it was determined that artillery rounds were not present at this site, the barbed wire fence was removed and the excavation was backfilled, compacted to 80 percent, and graded. The site was then staked and surveyed (Appendix B). Backfill compaction test results are provided in Appendix C.

2.1.3 CAS TA-52-003-0960 (DU Round No. 2)

Excavation activities began at DU Round 2 on November 30, 1998 using the same procedures as DU Round 1. At this site, radiologically impacted soil, including pieces of oxidized DU, were uncovered from approximately 0.3 m (1 ft) below ground surface to the final excavation depth of

5.3 m (17.5 ft). Several small pieces of shell casing were also recovered. The EOD specialist indicated they had been subjected to a high order detonation consistent with what would typically be done during demilitarization activities. In addition, the witness bars also showed evidence of detonation. The bottom 1.5 m (5 ft) of the witness bars were bent, twisted, and embedded with DU. There was no evidence of UXO or HE residue in the excavation.

All of the radiologically impacted soil, debris, and compactable waste was placed into nine B-25 Boxes for disposal in the Nevada Test Site (NTS) Area 5 Radioactive Waste Management Site (RWMS).

Because radiologically impacted soil and debris was present at this site, verification soil samples were collected as specified in Section 3.4.1 of the approved SAFER Work Plan. See Section 4.0 Closure Verification Results for details on sampling activities.

Once verification samples were collected, the excavation was backfilled, compacted to 80 percent, and graded. Backfilling was done prior to receiving sample results because the site was sufficiently over excavated so that there was no visually or instrument detected DU remaining. The site was then staked and surveyed (Appendix B). Backfill compaction test results are found in Appendix C. A final radiological survey was conducted on March 17, 1999. The results showed that the site was free of radiological contamination, and the site signs and fencing were removed. Results of the radiological survey are found in Appendix E.

2.1.4 CAS TA-052-002-TAML

Closure activities began at the DU Impact site (TAML Site) on November 18, 1998 with the collection of waste characterization samples. Eight soil samples (plus one duplicate) were collected from radiological hot spots identified during pre-characterization field activities. The purpose of these samples was to characterize and create a waste profile for disposal purposes. Sample results are found in Appendix D.

Soil removal activities began on January 13, 1999. Activities included the scraping of approximately 5-7.6 cm (2-3 in) of surface soil. All impacted soil was loaded into burrito-lined 15.3 cubic meter (m³) (20 cubic yard [yd³]) side dump trucks. After the area was scraped, a radiological survey was done to identify any remaining hot spots. Sixteen hot spots were identified and 15 were overexcavated.

A hot spot in the center of the site was more extensive than anticipated. Additional investigation revealed that the extent and volume of impacted soil was much greater than anticipated. At that point work was placed on hold and the closure methodology revised.

Work resumed on June 14, 1999. The center hot spot was excavated to a total depth of 2.7 m (9 ft) and all the radiologically impacted soil removed. After all impacted soil was excavated, a final surface scraping was done. About 10 cm (4 in) of soil was removed during this scraping.

Three small hot spots were identified and excavated. Surveys with a metal detector and radiological instrumentation revealed no significant debris fields, depleted uranium, or ordnance-size debris. The EOD specialist indicated that there is no UXO on the site.

All soil was loaded into burrito-lined side-dump trucks and transported to the NTS Area 3 RWMS.

Because radiologically impacted soil and debris was present at this site, verification soil samples were collected as specified in Section 3.4.1 of the approved SAFER Work Plan. See Section 4.0 Closure Verification Results for details on sampling activities.

Once verification samples were collected, the final radiological survey was done. Results showed the site to be free of radiological contamination and the site signs and fencing was removed. Then the excavation was backfilled with clean backfill material, compacted to 80 percent, and graded.

The site was also surveyed (Appendix B). Backfill compaction test results are found in Appendix C. Results of the radiological survey are found in Appendix E.

2.1.5 Final Geophysical Survey

Once the excavations were backfilled and surveyed, the final geophysical surveys using a Geometrics G858 cesium vapor magnetometer configured as a gradiometer were conducted by a geophysicist. The final geophysical survey for DU Round 1A was conducted on March 3, 1999 and the final geophysical surveys for DU Round 1B, DU Round 2, and the DU Impact site were conducted on July 7, 1999. This survey provided more accurate and precise data than could be obtained with a hand-held magnetometer. The results indicate that ordnance-related magnetic anomalies do not occur below the excavated areas. Results of the geophysical survey are found in Appendix A.

2.2 DEVIATIONS FROM SAFER CLOSURE PLAN AS APPROVED

The approved SAFER Work Plan (DOE, 1998a) was modified in the field to adjust to unexpected conditions, simplify activities, or increase worker safety. Eight technical changes to the work plan were approved (Table 1). The technical change notices are found in Appendix F.

2.3 CORRECTIVE ACTION SCHEDULE AS COMPLETED

The corrective action activities for CAS TTR-001 and CAS TA-52-003-0960 were completed in a timely manner. Excavation activities for CAS TTR-001 began on November 22, 1998, and were completed on November 24, 1998. Excavation activities for CAS TA-52-003-0960 began on December 1, 1998 and were completed on December 4, 1998. Backfilling the excavations and fence removal was completed by April 22, 1999. The final geophysical surveys were completed on July 7, 1999.

Corrective action activities for CAS TA-52-002-TAML began on November 18, 1998 and were completed on July 1, 1999. The major impact to the original corrective action schedule was the increased volume of impacted soil that required excavation and disposal. The volume of soil requiring excavation and disposal increased from 145 m³ (190 yd³) to 573 m³ (750 yd³).

A detailed schedule as completed for the corrective action is provided in Table 2.

2.4 SITE PLAN

CAS TTR-001 and CAS TA-52-003-0960 were surveyed on December 14, 1998. CAS TA-52-002-TAML was surveyed on July 7, 1999. The corners of each excavation were surveyed for location and elevation. Survey data are found in Appendix B.

TABLE 1 - TECHNICAL CHANGES

CHANGE	REASON	IMPACT ON CLOSURE
Excavation Sampling at DU Impact Site	Work Plan did not address large excavation sampling at DU Impact site	Confirm all DU impacted soil was removed
Subsurface excavation activities confined to upper 3 m (10 ft) rather than upper 0.61 m (2 ft)	Account for large subsurface excavation	Confirm all DU impacted soil was removed
Soil was loaded into trailers using a conveyor system	Easier and safer to use a front end loader	Expedited closure activities
Additional 420 m ³ (550 yd ³) of waste generated	Additional soil discovered during excavation activities	Delay in closure schedule due to increased volume of soil
Hot spot excavation can be conducted using shovel as well as backhoe. Hot spot soil placed into burrito-lined trailers instead of B-25 boxes	Some hot spots were too small to use a backhoe. B-25 boxes not necessary since trailers are already in place.	None
Non-impacted stockpiled soil not placed on plastic or covered with plastic and sprayed with water to prevent wind erosion	Not necessary to cover or place non-impacted soil on plastic	None
Excavation activities at the DU Impact Site will follow Section 3.1 of the Work Plan. Impacted soil will be placed on plastic and sprayed with water to prevent wind erosion	Account for large subsurface excavation at the DU Impact Site. DU was determined not to be an airborne hazard based on the continuous air monitoring filter data collected during the excavation activities. In addition, no elevated DU levels were detected in any on-site personnel's breathing zone air sampler filter or nasal swipe. Plastic cover would create additional waste and possible personnel exposure during cover maintenance.	Reduction in waste volume and personnel exposure.
Use front end loader instead of a backhoe to excavate DU Impact Site	Front end loader is faster and safer than a backhoe.	Expedited closure schedule

Table 2 - CAU 461 Closure Schedule as Completed

Activity ID	Activity Description	Early Start	Early Finish	1998	1999
CAU 461 CLOSURE SCHEDULE AS COMPLETED					
NB0000	Install Fenc. Around CAS TTR-001/TA-52-003-0960	16NOV98A	17NOV98A		
NB0010	Excavate DU Round No. 1A	22NOV98A	23NOV98A	X	
NB0020	Excavate DU Round No. 1B	23NOV98A	24NOV98A	X	
NB0030	UXO Clearance Survey for DU Rounds No. 1A, 1B	24NOV98A	24NOV98A	X	
NB0040	Remove Fencing/Backfill DU Round No. 1A, 1B	09DEC98A	09DEC98A	X	
NB0050	Conduct Geophysical Clearance Survey DU Round 1A	03MAR99A	03MAR99A		X
NB0060	Conduct Geophysical Clearance Survey DU Round 1B	07JUL99A	07JUL99A		X
NB0070	Excavate DU Round No. 2	30NOV98A	04DEC98A	X	
NB0080	UXO Clearance Survey for DU Round No. 2	04DEC98A	04DEC98A	X	
NB0090	Collect Verification Samples DU Round No. 2	08DEC98A	08DEC98A		
NB0100	Backfill DU Round No. 2	12JAN99A	12JAN99A		
NB0110	Conduct Final Radiological Survey DU Round No. 2	17MAR99A	17MAR99A		X
NB0120	Remove Fencing DU Round No. 2	22APR99A	22APR99A		X
NB0130	Conduct Geophysical Clearance Survey DU Round 2	07JUL99A	07JUL99A		X
NB0140	Excavate DU Impact Site (TAML)	13JAN99A	23JUN99A		
NB0150	UXO Clearance Survey for DU Impact Site (TAML)	24JUN99A	24JUN99A		X
NB0160	Conduct Final Radiological Survey DU Impact Site	24JUN99A	28JUN99A		X
NB0170	Collect Verification Samples DU Impact Site	28JUN99A	29JUN99A		X
NB0180	Backfill DU Impact Site (TAML)	29JUN99A	01JUL99A		X
NB0190	Remove Fencing DU Impact Site (TAML)	01JUL99A	01JUL99A		X
NB0200	Conduct Geo. Clearance Survey DU Impact Site	07JUL99A	07JUL99A		X

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3.0 WASTE DISPOSITION

No artillery rounds were discovered in the excavations at DU Rounds 1A and 1B. Therefore, radioactive or hazardous waste was not generated from closure activities at this CAS. Depleted uranium and radiologically impacted soil and debris were identified and excavated at both DU Round 2 and the DU Impact Site. Radioactive waste and compactable trash from DU Round 2 was placed into nine B-25 boxes and disposed at the NTS Area 5 RWMS. The radioactive waste and compactable trash from the DU Impact site was placed into side-dump trucks lined with 15.3 m³ (20 yd³) burrito bags. The intact bags were disposed at the NTS Area 3 RWMS. A total of 35 truck loads (approximately 561 m³ [734 yd³]) were disposed. Copies of the shipping manifests are provided in Appendix G. Reusable personal protective equipment was sent to the NTS Area 6 Decontamination facility for laundering. Sanitary waste was properly disposed in the TTR Sanitary Landfill.

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4.0 CLOSURE VERIFICATION RESULTS

This section of the CR details the specific activities involved in the verification of closure of CAU 461 Joint Test Assembly Sites (CAS No. TTR-001, CAS No. TA-52-003-0960, and CAS No. TA-52-002-TAML).

4.1 CAS TTR-001

CAS TTR-001 (DU Rounds 1A and 1B) was closed by verifying that artillery rounds were not present in any excavation. As specified in Section 3.4.1 of the approved SAFER Work Plan, verification sampling was not required if artillery rounds or impacted soil was not present. Instrument surveys indicated that no radiological contamination was present in the excavation or in the excavated soil. Swipe and instrument survey results indicate no radiological contamination on the metal debris from DU Round No. 1B. There was no evidence of explosive detonations or EOD activities. Geophysical surveys using hand-held instrumentation indicated no anomalies below the bottom of the excavations. A more extensive geophysical survey, using a Geometrics G858 cesium vapor magnetometer, also indicated no anomalies below the excavated areas. Appendix A provides the results of the geophysical survey.

4.2 CAS TA-52-003-0960

CAS TA-52-003-0960 (DU Round 2) was closed by excavating radiologically impacted soil and debris. Since impacted soil was present, soil verification samples were collected. One sample was collected from each of the four walls and bottom of the excavation. A total of seven samples were collected including one duplicate and one equipment blank. The samples were analyzed for TCLP metals, TCLP semi-volatile, nitroaromatics and nitroamines, and 20 minute gamma scan.

The results of the sample analysis indicate that there are no detectable levels of analyzed constituents present in the soil (Table 3). Laboratory data reports are found in Appendix D.

4.3 CAS TA-52-002-TAML

CAS TA-52-002-TAML (DU Impact Site) was also closed by excavating radiologically impacted soil and debris. Verification samples were collected after all the impacted soil had been removed. Since DU was present on the surface prior to clean up activities, samples were collected from the surface as well as from the excavation.

TABLE 3 - DU ROUND 2 VERIFICATION SAMPLE SUMMARY

SAMPLE NUMBER	TCLP SVOC^A (mg/L)	TCLP METALS^B (mg/L)	NITROAROMATICS/ NITROAMINES^C (mg/Kg)	GAMMA^D (U238) (pCi/g)
DU RD #2-1	ND ^E	ND	ND	<26
DU RD #2-2	ND	ND	ND	<22
DU RD #2-3	ND	ND	ND	<22
DU RD #2-4	ND	ND	ND	<23
DU RD #2-5	ND	ND	ND	<25
DU RD #2-6	ND	ND	ND	<27

NOTES:

A - TCLP SVOCs: TCLP Semi-Volatile Organic Compounds analyzed using EPA Method 8270C.

Extraction by Method 1311. (EPA, 1996)

B - TCLP Metals: Metals analyzed using EPA Methods 6010 and 7470A. Extraction by Method 1311. (EPA, 1996)

C - Nitroaromatics/Nitroamines analyzed using EPA Method 8330. (EPA, 1996)

D - 20-minute gamma spectroscopy for U238. Values are Minimum Detectable Activities (MDA). Results are less than MDAs.

E - ND: Not detected above laboratory detection limits. See Appendix D for Laboratory Reports.

(mg/L or mg/Kg or pCi/g): Milligrams per liter (for TCLP extraction), Milligrams per kilogram (for soil), Picocuries per gram for gamma spectroscopy.

A total of eleven soil samples (including one duplicate) were collected from the excavation. Each of the four sides and the bottom of the excavation was divided into nine sections. Two of the sections were then randomly selected using a random number generator for sampling.

The surface verification samples were selected by dividing the entire site into 233, 3 m x 3 m (10 ft x 10 ft) grids. Sixteen of the grids were randomly selected and sampled (Figure 3). A total of 18 samples were collected including one duplicate and one equipment blank. The samples were analyzed for TCLP metals, TCLP semi-volatile, nitroaromatics and nitroamines, and 300 minute gamma scan.

The sample results indicate that there are no hazardous or radiological constituents present in the excavation or on the surface (Table 4). Laboratory data reports are found in Appendix D.

4.4 LAND-USE RESTRICTIONS

A clean closure was performed at all three CASs. Land use is unrestricted. A Post-Closure Plan is not necessary for this site.

SCALE:

Numbers in parentheses are sample numbers

FIGURE 3
Surface Sample Grid - DU Impact Site

TABLE 4 - DU IMPACT SITE VERIFICATION SAMPLE SUMMARY

SAMPLE NUMBER	TCLP SVOC^A (mg/L)	TCLP METALS^B (mg/L)	NITROAROMATICS/ NITROAMINES^C (mg/Kg)	GAMMA^D (U238) (pCi/g)
TAML-VER-01	ND	Chromium 0.071	ND	ND
TAML-VER-02	ND	ND	ND	ND
TAML-VER-03	ND	ND	ND	ND
TAML-VER-04	ND	ND	ND	ND
TAML-VER-05	ND	ND	ND	ND
TAML-VER-06	ND	ND	ND	ND
TAML-VER-07	ND	ND	ND	ND
TAML-VER-08	ND	ND	ND	19.1
TAML-VER-09	ND	ND	ND	13.4
TAML-VER-10	ND	ND	ND	ND
TAML-VER-11	ND	ND	ND	7.81
TAML-VER-12	ND	ND	ND	ND

TABLE 4 - DU IMPACT SITE VERIFICATION SAMPLE SUMMARY

SAMPLE NUMBER	TCLP SVOC^A (mg/L)	TCLP METALS^B (mg/L)	NITROAROMATICS/ NITROAMINES^C (mg/Kg)	GAMMA^D (U238) (pCi/g)
TAML-VER-13	ND	ND	ND	ND
TAML-VER-14	ND	ND	ND	11.2
TAML-VER-15	ND	ND	ND	6.54
TAML-VER-16	ND	ND	ND	7.27
TAML-VER-17	ND	ND	ND	11.7
TAML-VER-18	ND	ND	ND	ND
TAML-VER-19	ND	ND	ND	3.95
TAML-VER-20	ND	ND	ND	ND
TAML-VER-21	ND	ND	ND	4.73
TAML-VER-22	ND	ND	ND	5.55
TAML-VER-23	ND	ND	ND	4.54
TAML-VER-24	ND	ND	ND	7.97

TABLE 4 - DU IMPACT SITE VERIFICATION SAMPLE SUMMARY

SAMPLE NUMBER	TCLP SVOC^A (mg/L)	TCLP METALS^B (mg/L)	NITROAROMATICS/ NITROAMINES^C (mg/Kg)	GAMMA^D (U238) (pCi/g)
TAML-VER-25	ND ^E	ND	ND	8.64
TAML-VER-26	ND	ND	ND	7.82
TAML-VER-27	ND	ND	ND	23.8
TAML-VER-28	ND	Mercury 0.0021	ND	ND

NOTES:

A - TCLP SVOCs: TCLP Semi-Volatile Organic Compounds analyzed using EPA Method 8270C.

Extraction by Method 1311. (EPA, 1996)

B - TCLP Metals: Metals analyzed using EPA Methods 6010 and 7470A. Extraction by Method 1311. (EPA, 1996)

C - Nitroaromatics/Nitroamines analyzed using EPA Method 8330. (EPA, 1996)

D - 300-minute gamma spectroscopy for U238.

E - ND: Not detected above laboratory detection limits. See Appendix D for Laboratory Reports.

(mg/L or mg/Kg or pCi/g): Milligrams per liter (for TCLP extraction), Milligrams per kilogram (for soil), Picocuries per gram for gamma spectroscopy.

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5.0 CONCLUSIONS

CAU 461, Joint Test Assembly Sites, which includes CAS TTR-001 (DU Round No. 1A and 1B), CAS TA-52-003-0960 (DU Round No. 2), and CAS TA-52-002-TAML (DU Impact Site) were clean closed. CAS TTR-001 was excavated and found not to contain DU artillery rounds. Radiological surveys of the excavations and excavated soil indicate no radiological contamination. The excavations were backfilled with the excavated soil to 80 percent compaction. The sites were graded and the barbed wire fences were removed. A final geophysical survey indicates no anomalies below the excavated areas.

CAS TA-52-003-0960 and CAS TA-52-002-TAML were excavated and found to contain radiologically impacted soil and debris. All of the impacted material was excavated and disposed in either the NTS Area 5 or Area 3 RWMS, respectively. Verification samples were collected and the analytical results indicate that all impacted material was removed. The excavations were backfilled with clean soil to 80 percent compaction and graded. Final radiological surveys were done and show the sites to be free of radiological contamination. The sites were de-posted and the barbed wire fences were removed. A final geophysical survey indicates no anomalies below the excavated areas.

Closure was completed following the approved SAFER Closure Plan (DOE, 1998a). Verification sampling was not required at CAS TTR-001 since artillery rounds or impacted soil were not discovered. Verification sampling at CAS TA-52-003-0960 and TA-52-002-TAML indicate that all impacted soil and debris was removed. Therefore, both sites are clean closed.

5.1 CLOSURE PETITION

This closure was completed following the approved SAFER Closure Plan (DOE, 1998a). Based upon the completion of site closure activities, the U.S. Department of Energy, Nevada Operations Office requests that a Notice of Completion be issued by the NDEP for the Joint Test Assembly Sites, CAU 461, and that CAU 461 be moved from Appendix III to Appendix IV of the FFACO, "Closed Corrective Action Units."

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6.0 REFERENCES

ASTM, see American Society for Testing and Materials

DOE, see U.S. Department of Energy

EPA, see U.S. Environmental protection Agency

NDEP, see Nevada Division of Environmental Protection

SAIC, see Science Applications International Corporation

American Society for Testing and Materials, 1997b, D 2922-96 Standard Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth), West Conshohocken, Pennsylvania.

Bechtel Nevada, 1998, Site-Specific Health and Safety Plan for Corrective Action Unit 461: Joint Test Assembly Sites and Corrective Action Unit 495: Unconfirmed Joint Test Assembly Sites Tonopah Test Range, Nevada, Las Vegas, Nevada.

Nevada Division of Environmental Protection, U.S. Department of Energy, and U.S. Department of Defense, April 1996, Federal Facilities Agreement and Consent Order (FFACO) of 1996.

Science Applications International Corporation, 1998, First Quarter 1998 Surficial Geophysical Survey Report, Depleted Uranium Impact Site (CAU 461), 1987 W79 Joint Test Assembly (CAU 461) Sites A and B, and Buried Artillery Rounds (CAU 495) #3 and #4, Tonopah Test Range, Tonopah, Nevada, Middletown, Pennsylvania.

U.S. Department of Energy, 1998a, Streamlined Approach for Environmental Restoration Work Plan for Corrective Action Unit 461: Joint Test Assembly Sites and Corrective Action Unit 495: Unconfirmed Joint Test Assembly Sites Tonopah Test Range, Nevada, Revision 0, DOE/NV/11718--247, Las Vegas, Nevada.

U.S. Department of Energy, 1998b, Field Management Plan for Corrective Action Unit 461: Joint Test Assembly Sites and Corrective Action Unit 495: Unconfirmed Joint Test Assembly Sites Tonopah Test Range, Nevada, Las Vegas, Nevada.

U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste. Physical/Chemical Methods, SW-846, CD ROM, Washington, DC.

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APPENDIX A

RESULTS OF FINAL GEOPHYSICAL SURVEY

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CONFIRMATION GEOPHYSICAL SURVEY CORRECTIVE ACTION UNIT 461

Magnetometer surveys were conducted over the excavations as well as the areas immediately surrounding the excavations. The magnetometer surveys were conducted for the purpose of confirming and documenting that the site had been cleared of any subsurface projectiles or associated debris. Surveys were conducted on CAS TTR-001 (Depleted Uranium (DU) Round 1A North, DU Round 1A South, DU Round 1B), CAS TA-52-003-0960 (DU Round 2), and on CAS TA-52-002-TAML (DU Impact site).

CAS TTR-001 and CAS TA-52-003-0960 locations were geophysical targets thought to be associated with artillery round impact sites of either warmer rounds or W79 Joint Test Assemblies. All sites were excavated to determine the nature of the target and remediate those sites as required.

Target identification relied on calibrating to a known target at varying depths. Calibration magnetic signatures were determined by burying a dummy 155 mm artillery shell at 0 m (0 ft), 0.6 m (2 ft), 1.2 m (4 ft), and 2.4 m (8 ft) depths. For each depth the round was laid flat with an orientation of N 45° W, covered with soil, and a survey conducted over the round. While the actual W79 and warmer rounds were 200 mm (8 in) shells, the smaller 155 mm (6 in) calibration round provided a conservative estimate of the magnetic signature that could be expected from the target artillery round. The results of these calibrations are presented in Figures 1 through 5.

Magnetometer surveys were conducted using a Geometrics G858 Cesium Vapor magnetometer configured as a Gradiometer. Results were recorded using continuous profiling with a 0.1 seconds/sample rate. The magnetometer recorded both total field and the vertical gradient over a 56 cm sensor separation. An integrated Global Position System (GPS) was used with the magnetometer system to provide line survey position data. Earlier surveys used a presurveyed grid for line and station control. The survey boundaries were laid out to include all surface disturbed ground within the surveyed area.

CAS TTR-001 (DU Round 1A)

This site consisted of two magnetic anomalies identified in the geophysical report (SAIC, 1998). No EM anomalies were noted at this site. The southern magnetic anomaly, as noted in the geophysical report, was the stronger of the two with a peak positive gradient of approximately 90 nT/m. The northern anomaly peak was approximately 15 nT/m. Excavations to 3.3 m (10 ft) in depth and the use of a handheld magnetometer revealed no ordnance related debris or radiologically impacted soils. The confirmation survey (Figure 6) indicated a dipolar anomaly (+30, -60 nT/m) located approximately 5 feet from the Round 1A south excavation site. The magnitude of this anomaly was large enough to require further investigation. Depth calculations indicated a target at approximately 1.2 m (4 ft) and about 0.9 m (3 ft) long. The site was revisited

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Tonopah Test Range CAU 461 Magnetometer Survey

Background - no round present

Figure 1

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Tonopah Test Range CAU 461 Magnetometer Survey

Buried 155 mm shell

2 foot depth of burial

Figure 3

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Tonopah Test Range CAU 461 Magnetometer Survey

Buried 155 mm shell

4 foot depth of burial

Figure 4

Tonopah Test Range CAU 461 Magnetometer Survey

Buried 155 mm shell

8 foot depth of burial

Figure 5

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Magnetometer Confirmation Survey

DU Round 1A South

CAU 461 CAS TTR-001

Figure 6

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and excavated. A lense of iron rich gravel was found at a depth of approximately 3.5 feet and confirmed with use of a handheld magnetometer. No debris or signs of disturbed materials were found.

The confirmation survey at DU Round 1A North (Figure 7) indicates a weak magnetic feature that can also be associated with native materials. No magnetic signatures indicative of an ordnance size object are observed.

CAS TTR-001 (DU Round 1B)

The initial geophysical surveys of this area indicated strong EM and Magnetic anomalies confined to a localized area. Excavation of this area produced numerous metallic objects ranging in size from 5 cm (2 in.) to 0.5 m (1.5 ft) down to a depth of 1.5 m (5 ft) which is consistent with the geophysical signatures observed. The confirmation survey (Figure 8) indicates some small near surface pieces of iron located between 528255 E to 528257.5 E along 4187674.5 N. The cause of the strongest signature (+40 / -38 nanoTesla/meter [nT/m]) located at 528257.34 E, 4187674.4 N is a small piece of iron shrapnel visible at the surface.

No magnetic targets were observed on this confirmatory survey that would be representative of a buried target at or below the excavation location.

CAS TA-52-003-0960 (DU Round 2)

Excavation at this site produced soils that were radiologically impacted, pieces of oxidized DU, and some pieces of shell casings. Evidence of a high order detonation was observed at a depth of 1.5 m (5 ft). Excavation indicated clean material at a depth of 5.3 m (17.5 ft).

Several ferrous objects are evident along the periphery of the site (Figure 9) and are associated with near surface survey markers (IT72, IT69) and iron debris. The larger anomaly seen at 528719 E, 41876323 N was due to an iron T-Post plate just beneath the surface.

No magnetic signatures indicative of a buried ordnance size object are observed.

CAS TA-52-002-TAML

The TAML site consisted of a Depleted Uranium impact site measuring approximately 55 m by 50 m (180 ft by 160 ft). This site hosted numerous small pieces of metallic debris along with DU contaminated soils originally thought to be very near surface. While the majority of the site was found to meet these conditions a central pit area was characterized and cleaned up to a depth of 3.3 m (10 ft). The pit was comprised of an area of disturbed ground hosting metal fragments and DU contaminated soils from a failed weapons test. Hand held metal detectors (Whites Spectrum XLT and a Schonstedt GA 52C Flux gate magnetometer) were used to clear the surface and excavation area of metallic and ferrous debris.

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Magnetometer Confirmation Survey

DU Round 1A North

CAU 461 CAS TTR-001

Figure 7

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Confirmation Magnetometer Survey

CAU 461

CAS TTR-001 (DU Round 1B)

Figure 8

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Confirmation Magnetometer Survey
W79 Joint Test Assembly Site B (DU Round 2)
CAU 461 CAS TTR-001

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A confirmation survey was conducted over the area to be certain no larger deeply buried objects remained. The magnetometer results (Figure 10) indicate the central pit area and the area surrounding this excavation are free of any deeply buried objects.

Some smaller pieces of iron can be seen in the near surface along the eastern corner of the survey area. The large features noted around the periphery of the site are iron fence posts and survey markers.

No magnetic signatures indicative of an ordnance size object are observed.

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Confirmation Magnetometer Survey
 Depleted Uranium Impact Site
 CAU 461 CAS TA-52-002-TAMIL

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APPENDIX B

SURVEY RESULTS

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BECHTEL NEVADA CORPORATION
SURVEY DEPARTMENT
(702) 295-3487

Date: 01-13-99
Time: 15:45:21
Page: 1

Coordinate File: TTRDURAB.CRD
List of Coordinate Points
* Denotes Contouring Masspoint

T.T.B.
Depleted URANIUM Rm.
Locations

Point ID	NORTH	EAST	ELEV	Descriptor
3	6341252.8786	499310.5503	1647.8270	COR. D.U.SITE #2
4	6341250.1743	499307.5421	1647.7800	COR. D.U.SITE #2
5	6341254.9990	499301.4978	1647.7880	COR. D.U.SITE #2
6	6341259.1864	499305.1635	1647.7940	COR. D.U.SITE #2
7	6342404.4230	498687.3040	1643.8160	COR. D.U.SITE #1-A, NORTH
8	6342402.4860	498679.4090	1643.7210	COR. D.U.SITE #1-A, NORTH
9	6342394.2040	498681.3800	1643.6550	COR. D.U.SITE #1-A, NORTH
10	6342396.4340	498690.3630	1643.7570	COR. D.U.SITE #1-A, NORTH
11	6342388.9710	498678.9120	1643.6500	COR. D.U.SITE #1-A, SOUTH
12	6342382.3390	798681.1130	1643.6790	COR. D.U.SITE #1-A, SOUTH
13	6342386.0330	498690.8590	1643.7370	COR. D.U.SITE #1-A, SOUTH
14	6342392.7670	498688.5460	1643.7170	COR. D.U.SITE #1-A, SOUTH
15	6342608.4840	498840.9950	1644.5160	COR. D.U.SITE #1-B,
16	6342602.4910	498841.9050	1644.6020	COR. D.U. SITE #1-B
17	6342602.8130	498849.5170	1644.6600	COR. D.U. SITE #1-B
18	6342608.6650	498849.6370	1644.6480	COR. D.U.SITE #1-B
19	6340390.6760	497895.5190	1639.6100	COR. D.U.SITE #3, EAST
20	6340394.3100	497902.9240	1638.7030	COR. D.U. SITE #3, EAST
21	6340402.4800	497899.4830	1638.8160	COR. D.U.SITE #3, EAST
22	6340398.8360	497892.7980	1638.7720	COR. D.U.SITE #3, EAST
23	6340397.2300	497889.1520	1638.6990	COR. D.U.SITE #3, WEST
24	6340392.7170	497886.7060	1638.7050	COR. D.U.SITE #3, WEST
25	6340396.9600	497880.5780	1638.7100	COR. D.U. SITE #3, WEST
26	6340400.3810	497882.2450	1638.7080	COR. D.U. SITE #3, WEST
27	6340445.6010	497966.7360	1639.4110	COR. D.U. SITE #4, EAST
28	6340446.8020	497962.7450	1639.3790	COR. D.U. SITE #4, EAST
29	6340440.2120	497960.0970	1639.3200	COR. D.U. SITE #4, EAST
30	6340439.0960	497964.2500	1639.3970	COR. D.U. SITE #4, EAST
31	6340432.4540	497947.0390	1639.2070	COR. D.U.SITE #4, SOUTH
32	6340427.9110	497946.6900	1639.1680	COR. D.U. SITE #4, SOUTH
33	6340431.4850	497954.5010	1639.2250	COR. D.U. SITE #4, SOUTH
34	6340427.8630	497953.9400	1639.2420	COR. D.U. SITE #4, SOUTH
35	6340453.9700	497955.1990	1639.2450	COR. D.U. SITE #4, WEST
36	6340445.0580	497951.3430	1639.2790	COR. D.U. SITE #4, WEST
37	6340449.5820	497961.4810	1639.3540	COR. D.U. SITE #4, WEST
38	6340440.3910	497958.1990	1639.3160	COR. D.U. SITE #4, WEST

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APPENDIX C

BACKFILL COMPACTION TEST RESULTS

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DEC 23 1998

NUCLEAR DENSITY

ASTM D2922-96
CAMPBELL MC-2/MC-3
TROXLERBECHTEL NEVADA
MATERIALS TESTING LABORATORY
P.O. BOX 98521 M/S: NT9188
LAS VEGAS, NV 89165-0521

CHARGE #: C7F05G13

DATE TYPED 12/23/98

PAGE 3 OF 3

Requested by J. SMITH User/Agency BECHTEL Material NATIVEProject TTR JOINT TEST ASSEMBLY Location of Tests SEE BELOWTested by D. HERRINGTON Date Tested 12/16/98 Checked by V. Quinn

LABORATORY NO	536	537	N/A	N/A	N/A	N/A
DEPTH OF PROBE	8"	8"				
LIFT #	NATIVE	NATIVE				
SITE LOCATION	DU1-B	DU1-B				
HOLE LOCATION	N/A	N/A				
DRY DENSITY-PCF	106.4	104.6				
MOISTURE %	5.8	7.6				
PERCENT COMPACTION	89.8	88.3				
MAX DENSITY PCF	118.5	118.5				
OPTIMUM MOISTURE %	10.3	10.3				
REQUIRED COMPACTION	80	80				
IN / OUT of SPECIFICATION	IN	IN				

GAUGE NO 23205 DATE OF STANDARDIZATION 12/16/98VALUE OF M 625
STANDARDIZATION D 2936PLOT PLAN N/AREMARKS: TWO TESTS WERE TAKEN IN EACH AREA. (FILLED HOLE)
A PROCTOR WAS TAKEN AT DU4 AND ALSO AT DU1-B.CC: J. SMITH BECHTEL
MTL BECHTEL FILES

JAN 25 1999

NUCLEAR DENSITY

ASTM D2922-96
CAMPBELL MC-2/MC-3
TROXLER

BECHTEL NEVADA

MATERIALS TESTING LABORATORY
P. O. BOX 98521, M/S NTS-100
LAS VEGAS, NV 89193-8521

CHARGE #: C7P05G13

DATE TYPED 12/23/98

PAGE 1 OF 1

Requested by J. SMITH User/Agency BECHTEL Material NATIVE
 Project TTR JOINT TEST ASSEMBLY Location of Tests SEE BELOW
 Tested by D. HERRINGTON Date Tested 01/21/99 Checked by V. [Signature]

LABORATORY NO	613	614	N/A	N/A	N/A	N/A
DEPTH OF PROBE	8"	8"				
LIFT #	NATIVE	NATIVE				
SITE LOCATION	DU2	DU2				
HOLE LOCATION	South	North				
DRY DENSITY-PCF	107.2	109.0				
MOISTURE %	6.3	8.2				
PERCENT COMPACTION	90.1	91.6				
MAX DENSITY PCF	119.0	119.0				
OPTIMUM MOISTURE %	11.1	11.1				
REQUIRED COMPACTION	80	80				
IN / OUT of SPECIFICATION	IN	IN				

GAUGE NO 23205 DATE OF STANDARDIZATION 01/21/99
 VALUE OF M 625
 STANDARDIZATION D 2936

PLOT PLAN

 REMARKS: N/A

 CC: J. SMITH BECHTEL
 MTL BECHTEL FILES

AUG 26 1999

NUCLEAR DENSITY

ASTM D2922-96
CAMPBELL MC-2/MC-3
TROXLER

BECHTEL NEVADA

MATERIALS TESTING LABORATORY
P. O. BOX 98521, M/S NTS188
LAS VEGAS, NV 89193-8521

CHARGE #: C7P05H13

DATE TYPED 08/25/99

PAGE 1 OF 1

Requested by D. TOBIASSON User/Agency BECHTEL Material SAINDIA BORROWProject TA - 52 - 002 - TAML Location of Tests BACKFILL OF EXCAVATIONTested by D. HERRINGTON Date Tested 08/24/99 Checked by V. [Signature]

LABORATORY NO	2135	2136	2137	2138	N/A	N/A
TEST #	1	2	3	4		
LIFT #	Final Grade	Final Grade	Final Grade	Final Grade		
DEPTH OF PROBE	8"	8"	8"	8"		
DRY DENSITY-PCF	114.3	114.4	114.8	116.9		
MOISTURE %	4.8	3.8	3.7	4.4		
PERCENT COMPACTION	91.2	91.3	91.6	93.3		
MAX DENSITY PCF (Rock Correction)	125.3	125.3	125.3	125.3		
OPTIMUM MOISTURE %	9.7	9.7	9.7	9.7		
REQUIRED COMPACTION %	80	80.0	80.0	80.0		
IN / OUT of SPECIFICATION	IN	IN	IN	IN		

GAUGE NO 23205 DATE OF STANDARDIZATION 08/24/99VALUE O M 640
STANDARDIZATION D 2929

PLOT PLAN

REMARKS: TEST LOCATIONS PROVIDED BY D. TOBIASSON.CC: J. SMITH BECHTEL
D. TOBIASSON
MTL BECHTEL FILES

AUG 26 1999

NUCLEAR DENSITY
ASTM D2922-96
CAMPBELL MC-2/MC-3
TROXLER

BECHTEL NEVADA
MATERIALS TESTING LABORATORY
P. O. BOX 98521, M/S NTS188
LAS VEGAS, NV 89193-8521

CHARGE #: C7P05H13
DATE TYPED 08/25/99
PAGE 1 OF 1

Requested by D. TOBIASSON User/Agency BECHTEL Material NATIVE

Project TTR - 001 DU RD 1A Location of Tests BACKFILL OF EXCAVATION

Tested by D. HERRINGTON Date Tested 08/24/99 Checked by *[Signature]*

LABORATORY NO	2139	2140	2141	2142	N/A	N/A
TEST #	1	2	3	4		
LIFT #	Final Grade	Final Grade	Final Grade	Final Grade		
DEPTH OF PROBE	8"	8"	8"	8"		
DRY DENSITY-PCF	104.5	102.8	104.2	105.0		
MOISTURE %	3.0	3.1	3.4	3.7		
PERCENT COMPACTION	88.2	86.8	87.9	88.6		
MAX DENSITY PCF (Rock Correction)	118.5	118.5	118.5	118.5		
OPTIMUM MOISTURE %	10.3	10.3	10.3	10.3		
REQUIRED COMPACTION %	80	80.0	80.0	80.0		
IN / OUT of SPECIFICATION	IN	IN	IN	IN		

GAUGE NO 23205 DATE OF STANDARDIZATION 08/24/99

VALUE O M 640
STANDARDIZATION D 2929

PLOT PLAN

REMARKS: TEST LOCATIONS AND PROCTOR RESULTS PROVIDED BY D. TOBIASSON.

CC: J. SMITH BECHTEL
D. TOBIASSON
MTL BECHTEL FILES

APPENDIX D

VERIFICATION SAMPLE RESULTS

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**SAMPLE
DELIVERY
GROUP
V557**

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NEL LABCORPORATIONS

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: V557
PROJECT NUMBER: 17777

NEL ORDER ID: L9812133

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 12/11/98.

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.

Some QA results have been flagged as follows:

J - This concentration should be considered an estimate due laboratory control sample failure.

Stan Van Wagenen
Laboratory Manager

12/31/98
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>		<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
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 ID: V557/17777
PROJECT #: 17777

CLIENT ID: DURD # 2-1
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-01

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: 12/17/98
EXTRACTED: 12/18/98
ANALYZED: 12/21/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND J	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 J	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	72	10 - 123
2-Fluorobiphenyl	63	43 - 116
2-Fluorophenol	53	21 - 100
Nitrobenzene-d5	60	35 - 114
p-Terphenyl-d14	80	33 - 141
Phenol-d5	33	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-1
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-01

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

EXTRACTED: 12/18/98
ANALYZED: 12/21/98

ANALYST: YW

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-1
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-01

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION	DIGESTED	ANALYZED
					DATE		
Arsenic	ND	0.5 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Barium	ND	5. mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/17/98	12/18/98	12/18/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/17777
PROJECT #: 17777

CLIENT ID: DURD # 2-2
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-02

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: 12/17/98
EXTRACTED: 12/18/98
ANALYZED: 12/21/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND J	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 J	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
1,4,6-Tribromophenol	87	10 - 123
1-Fluorobiphenyl	93	43 - 116
1-Fluorophenol	58	21 - 100
Nitrobenzene-d5	84	35 - 114
1-Terphenyl-d14	87	33 - 141
Phenol-d5	35	10 - 94

D - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD #2-2
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-02

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid

EXTRACTED: 12/18/98

DILUTION: 1

ANALYZED: 12/22/98

ANALYST: YW

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-2
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-02

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	12/17/98	12/18/98	12/18/98
Barium	ND	5. mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/17/98	12/18/98	12/18/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/1777
PROJECT #: 1777

CLIENT ID: DURD # 2-3
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-03

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: 12/17/98
EXTRACTED: 12/18/98
ANALYZED: 12/21/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND J	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 J	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	93	10 - 123
2-Fluorobiphenyl	93	43 - 116
2-Fluorophenol	55	21 - 100
Nitrobenzene-d5	87	35 - 114
p-Terphenyl-d14	106	33 - 141
Phenol-d5	34	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-3
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-03

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

EXTRACTED: 12/18/98
ANALYZED: 12/22/98

ANALYST: YW

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-3
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-03

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	12/17/98	12/18/98	12/18/98
Barium	ND	5. mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/17/98	12/18/98	12/18/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/17777
PROJECT #: 17777

CLIENT ID: DURD # 2-4
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-04

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: 12/17/98
EXTRACTED: 12/18/98
ANALYZED: 12/21/98

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

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	0	10 - 123
2-Fluorobiphenyl	83	43 - 116
2-Fluorophenol	0	21 - 100
Nitrobenzene-d5	78	35 - 114
p-Terphenyl-d14	72	33 - 141
Phenol-d5	0	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-4
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-04

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid

EXTRACTED: 12/18/98

DILUTION: 1

ANALYZED: 12/22/98

ANALYST: YW

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-4
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-04

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	12/17/98	12/18/98	12/18/98
Barium	ND	5. mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/17/98	12/18/98	12/18/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/17777
PROJECT #: 17777

CLIENT ID: DURD # 2-5
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-05

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: 12/17/98
EXTRACTED: 12/18/98
ANALYZED: 12/21/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND J	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 J	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	86	10 - 123
2-Fluorobiphenyl	92	43 - 116
2-Fluorophenol	58	21 - 100
Nitrobenzene-d5	84	35 - 114
p-Terphenyl-d14	103	33 - 141
Phenol-d5	36	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-5
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-05

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid

EXTRACTED: 12/18/98

DILUTION: 1

ANALYZED: 12/22/98

ANALYST: YW

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-5
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-05

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	12/17/98	12/18/98	12/18/98
Barium	ND	5. mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/17/98	12/18/98	12/18/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/1777
PROJECT #: 1777

CLIENT ID: DURD # 2-6
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-06

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: 12/17/98
EXTRACTED: 12/18/98
ANALYZED: 12/21/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND J	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 J	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	89	10 - 123
2-Fluorobiphenyl	93	43 - 116
2-Fluorophenol	65	21 - 100
Nitrobenzene-d5	89	35 - 114
p-Terphenyl-d14	103	33 - 141
Phenol-d5	39	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-6
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-06

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

EXTRACTED: 12/18/98
ANALYZED: 12/22/98

ANALYST: YW

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-6
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-06

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION	DIGESTED	ANALYZED
					DATE		
Arsenic	ND	0.5 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Barium	ND	5. mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Cadmium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Chromium	ND	0.05 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Lead	ND	0.25 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	12/17/98	12/18/98	12/18/98
Selenium	ND	0.5 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98
Silver	ND	0.1 mg/L	5	EPA 6010	12/17/98	12/18/98	12/18/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-ER
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-09

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Aqueous

EXTRACTED: 12/15/98

DILUTION: 1

ANALYZED: 12/22/98

ANALYST: YW

PARAMETER	Result	Reporting Limit
2-Am-DNT & 4-Am-DNT	ND	1.5 µg/L
1,3-DNB	ND	0.25 µg/L
2,4-DNT & 2,6-DNT	ND	1.5 µg/L
HMX	ND	2. µg/L
Nitrobenzene	ND	0.25 µg/L
2-Nitrotoluene	ND	0.25 µg/L
3-Nitrotoluene	ND	0.25 µg/L
4-Nitrotoluene	ND	0.25 µg/L
RDX	ND	2. µg/L
Tetryl	ND J	0.65 µg/L
1,3,5-TNB	ND	0.25 µg/L
2,4,6-TNT	ND	0.25 µg/L

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT NAME: V557
PROJECT NUMBER: 17777

CLIENT ID: DURD # 2-ER
DATE SAMPLED: 12/8/98
NEL SAMPLE ID: L9812133-09

TEST: TCLP-8 Metals
MATRIX: Aqueous

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	NA	12/18/98	12/18/98
Barium	ND	1. mg/L	1	EPA 6010	NA	12/18/98	12/18/98
Cadmium	ND	0.01 mg/L	1	EPA 6010	NA	12/18/98	12/18/98
Chromium	ND	0.01 mg/L	1	EPA 6010	NA	12/18/98	12/18/98
Lead	ND	0.05 mg/L	1	EPA 6010	NA	12/18/98	12/18/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	NA	12/18/98	12/18/98
Selenium	ND	0.1 mg/L	1	EPA 6010	NA	12/18/98	12/18/98
Silver	ND	0.02 mg/L	1	EPA 6010	NA	12/18/98	12/18/98

D.F. - Dilution Factor

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:	121598-E1-BLK
TEST:	TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996		
METHOD:	EPA 8270	TCLP EXTRACT DATE:	NA
MATRIX:	TCLP Extract	EXTRACTED:	12/15/98
		ANALYZED:	12/29/98

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
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	54	10 - 123
2-Fluorobiphenyl	84	43 - 116
2-Fluorophenol	48	21 - 100
Nitrobenzene-d5	77	35 - 114
p-Terphenyl-d14	101	33 - 141
Phenol-d5	28	10 - 94
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: 121898-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: 12/17/98
EXTRACTED: 12/18/98
ANALYZED: 12/21/98

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
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	15	10 - 123
2-Fluorobiphenyl	44	43 - 116
2-Fluorophenol	14	21 - 100
Nitrobenzene-d5	43	35 - 114
-Terphenyl-d14	45	33 - 141
Phenol-d5	14	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/17777
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 121598-H1-BLK

TEST: Nitroaromatics and Nitroamines by EPA 8330
METHOD: EPA 8330
MATRIX: Aqueous

ANALYST: YW
EXTRACTED: 12/15/98
ANALYZED: 12/22/98

PARAMETER	Result	Reporting Limit
2-Am-DNT & 4-Am-DNT	ND	1.5 µg/L
1,3-DNB	ND	0.25 µg/L
2,4-DNT & 2,6-DNT	ND	1.5 µg/L
HMX	ND	2. µg/L
Nitrobenzene	ND	0.25 µg/L
2-Nitrotoluene	ND	0.25 µg/L
3-Nitrotoluene	ND	0.25 µg/L
4-Nitrotoluene	ND	0.25 µg/L
RDX	ND	2. µg/L
Tetryl	ND	0.65 µg/L
1,3,5-TNB	ND	0.25 µg/L
2,4,6-TNT	ND	0.25 µg/L

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/17777
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 121898-H1-BLK

TEST: Nitroaromatics and Nitroamines by EPA 8330
METHOD: EPA 8330
MATRIX: Solid

ANALYST: YW
EXTRACTED: 12/18/98
ANALYZED: 12/21/98

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/1777
PROJECT #: 1777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L12133i-09A-BLK

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

PARAMETER	RESULT	REPORTING		D. F.	TCLP/STLC EXTRACTION		
		LIMIT			METHOD	DATE	DIGESTED ANALYZED
Arsenic	ND	0.1mg/L.	1		EPA 6010	NA	12/18/98 12/18/98
Barium	ND	1mg/L	1		EPA 6010	NA	12/18/98 12/18/98
Cadmium	ND	0.01mg/L	1		EPA 6010	NA	12/18/98 12/18/98
Chromium	ND	0.01mg/L	1		EPA 6010	NA	12/18/98 12/18/98
Lead	ND	0.05mg/L	1		EPA 6010	NA	12/18/98 12/18/98
Selenium	ND	0.1mg/L	1		EPA 6010	NA	12/18/98 12/18/98
Silver	ND	0.02mg/L	1		EPA 6010	NA	12/18/98 12/18/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/17777
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L12133i-BLK

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

PARAMETER	RESULT	REPORTING		D. F.	TCLP/STLC EXTRACTION		
		LIMIT			METHOD	DATE	DIGESTED ANALYZED
Arsenic	ND	0.5mg/L.	5		EPA 6010	12/17/98	12/18/98
Barium	ND	5mg/L	5		EPA 6010	12/17/98	12/18/98
Cadmium	ND	0.05mg/L	5		EPA 6010	12/17/98	12/18/98
Chromium	ND	0.05mg/L	5		EPA 6010	12/17/98	12/18/98
Lead	ND	0.25mg/L	5		EPA 6010	12/17/98	12/18/98
Selenium	ND	0.5mg/L	5		EPA 6010	12/17/98	12/18/98
Silver	ND	0.1mg/L	5		EPA 6010	12/17/98	12/18/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V557/17777
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L12133-Hg-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	12/17/98	12/18/98	12/18/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V557/17777
 PROJECT #: 17777
 TEST: Nitroaromatics and Nitroamines by EPA 8330
 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>
HMX	121898-H1-LCS	5	4.91	98	80 - 120	
HMX	121598-H1-LCS	5	4.47	89	80 - 120	
HMX	121598-H1-LCSD	5	4.53	91	80 - 120	1.3
HMX	121898-H1-LCSD	5	4.88	98	80 - 120	0.6
HMX	L9812133-01-MS	5	4.93	99	80 - 120	
HMX	L9812133-09-MS	5	4.64	93	80 - 120	
HMX	L9812133-01-MSD	5	4.92	98	80 - 120	0.2
RDX	121598-H1-LCS	5	4.42	88	80 - 120	
RDX	121898-H1-LCS	5	4.83	97	80 - 120	
RDX	121598-H1-LCSD	5	4.45	89	80 - 120	0.7
RDX	121898-H1-LCSD	5	4.65	93	80 - 120	3.8
RDX	L9812133-09-MS	5	4.41	88	80 - 120	
RDX	L9812133-01-MS	5	4.85	97	80 - 120	
RDX	L9812133-01-MSD	5	4.85	97	80 - 120	0.
1,3,5-TNB	121598-H1-LCS	5	3.91	78	80 - 120	
1,3,5-TNB	121898-H1-LCS	5	4.48	90	80 - 120	
1,3,5-TNB	121898-H1-LCSD	5	4.47	89	80 - 120	0.2
1,3,5-TNB	121598-H1-LCSD	5	4.02	80	80 - 120	2.8
1,3,5-TNB	L9812133-09-MS	5	3.8	76	80 - 120	
1,3,5-TNB	L9812133-01-MS	5	4.6	92	80 - 120	
1,3,5-TNB	L9812133-01-MSD	5	4.6	92	80 - 120	0.
1,3-DNB	121898-H1-LCS	5	4.86	97	80 - 120	
1,3-DNB	121598-H1-LCS	5	4.36	87	80 - 120	
1,3-DNB	121598-H1-LCSD	5	4.35	87	80 - 120	0.2
1,3-DNB	121898-H1-LCSD	5	4.86	97	80 - 120	0.
1,3-DNB	L9812133-01-MS	5	4.99	100	80 - 120	
1,3-DNB	L9812133-09-MS	5	4.42	88	80 - 120	
1,3-DNB	L9812133-01-MSD	5	4.92	98	80 - 120	1.4
Tetryl	121598-H1-LCS	5	2.51	50 J	80 - 120	
Tetryl	121898-H1-LCS	5	4.45	89	80 - 120	
Tetryl	121898-H1-LCSD	5	4.44	89	80 - 120	0.2
Tetryl	121598-H1-LCSD	5	2.75	55 J	80 - 120	9.1
Tetryl	L9812133-01-MS	5	4.55	91	80 - 120	
Tetryl	L9812133-09-MS	5	1.89	38 J	80 - 120	
Tetryl	L9812133-01-MSD	5	4.43	89	80 - 120	2.7
Nitrobenzene	121898-H1-LCS	5	4.93	99	80 - 120	
Nitrobenzene	121598-H1-LCS	5	4.33	87	80 - 120	
Nitrobenzene	121898-H1-LCSD	5	4.94	99	80 - 120	0.2

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V557/17777
 PROJECT #: 17777
 TEST: Nitroaromatics and Nitroamines by EPA 8330
 MATRIX: Aqueous

<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>
Nitrobenzene	121598-H1-LCSD	5	4.4	88	80 - 120	1.6
Nitrobenzene	L9812133-09-MS	5	4.29	86	80 - 120	
Nitrobenzene	L9812133-01-MS	5	5.01	100	80 - 120	
Nitrobenzene	L9812133-01-MSD	5	5.05	101	80 - 120	0.8
2,4,6-TNT	121898-H1-LCS	5	5.29	106	80 - 120	
2,4,6-TNT	121598-H1-LCS	5	5.41	108	80 - 120	
2,4,6-TNT	121898-H1-LCSD	5	5.26	105	80 - 120	0.6
2,4,6-TNT	121598-H1-LCSD	5	5.28	106	80 - 120	2.4
2,4,6-TNT	L9812133-01-MS	5	5.37	107	80 - 120	
2,4,6-TNT	L9812133-09-MS	5	5.59	112	80 - 120	
2,4,6-TNT	L9812133-01-MSD	5	5.37	107	80 - 120	0.
2-Am-DNT & 4-Am-DNT	121598-H1-LCS	10	9.16	92	80 - 120	
2-Am-DNT & 4-Am-DNT	121598-H1-LCSD	10	9.12	91	80 - 120	0.4
2-Am-DNT & 4-Am-DNT	L9812133-09-MS	10	9.34	93	80 - 120	
2,4-DNT & 2,6-DNT	121598-H1-LCS	10	8.75	88	80 - 120	
2,4-DNT & 2,6-DNT	121598-H1-LCSD	10	8.7	87	80 - 120	0.6
2,4-DNT & 2,6-DNT	L9812133-09-MS	10	8.96	90	80 - 120	
2-Nitrotoluene	121598-H1-LCS	5	4.49	90	80 - 120	
2-Nitrotoluene	121898-H1-LCS	5	4.97	99	80 - 120	
2-Nitrotoluene	121898-H1-LCSD	5	5.1	102	80 - 120	2.6
2-Nitrotoluene	121598-H1-LCSD	5	4.51	90	80 - 120	0.4
2-Nitrotoluene	L9812133-01-MS	5	4.96	99	80 - 120	
2-Nitrotoluene	L9812133-09-MS	5	4.44	89	80 - 120	
2-Nitrotoluene	L9812133-01-MSD	5	4.99	100	80 - 120	0.6
4-Nitrotoluene	121598-H1-LCS	5	4.33	87	80 - 120	
4-Nitrotoluene	121898-H1-LCS	5	4.96	99	80 - 120	
4-Nitrotoluene	121898-H1-LCSD	5	5.06	101	80 - 120	2.
4-Nitrotoluene	121598-H1-LCSD	5	4.42	88	80 - 120	2.1
4-Nitrotoluene	L9812133-01-MS	5	4.83	97	80 - 120	
4-Nitrotoluene	L9812133-09-MS	5	4.58	92	80 - 120	
4-Nitrotoluene	L9812133-01-MSD	5	4.89	98	80 - 120	1.2
3-Nitrotoluene	121598-H1-LCS	5	4.29	86	80 - 120	
3-Nitrotoluene	121898-H1-LCS	5	4.93	99	80 - 120	
3-Nitrotoluene	121898-H1-LCSD	5	5	100	80 - 120	1.4
3-Nitrotoluene	121598-H1-LCSD	5	4.36	87	80 - 120	1.6
3-Nitrotoluene	L9812133-01-MS	5	4.85	97	80 - 120	
3-Nitrotoluene	L9812133-09-MS	5	4.76	95	80 - 120	
3-Nitrotoluene	L9812133-01-MSD	5	4.91	98	80 - 120	1.2

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
 PROJECT ID: V557/17777
 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	L12133i-LCS	0.5	0.52	104	85 - 115	
Arsenic	L12133i-09A-LCS	0.5	0.528	106	85 - 115	
Arsenic	L9812133-01-MS	0.5	0.477	95	75 - 125	
Arsenic	L9812133-01-MSD	0.5	0.533	107	75 - 125	11.1
Mercury	L12133-Hg-LCS	0.005	0.00483	97	85 - 115	
Mercury	L9812133-01-MS	0.05	0.0565	113	75 - 125	
Mercury	L9812133-01-MSD	0.05	0.0497	99	75 - 125	12.8
Silver	L12133i-LCS	0.5	0.467	93	85 - 115	
Silver	L9812133-01-MS	0.5	0.459	92	75 - 125	
Silver	L9812133-01-MSD	0.5	0.47	94	75 - 125	2.4
Barium	L12133i-LCS	1	1.13	113	85 - 115	
Barium	L12133i-09A-LCS	1	1.01	101	85 - 115	
Barium	L9812133-01-MS	1	2.55	95	75 - 125	
Barium	L9812133-01-MSD	1	2.58	98	75 - 125	3.1
Cadmium	L12133i-LCS	0.2	0.18	90	85 - 115	
Cadmium	L12133i-09A-LCS	0.2	0.197	99	85 - 115	
Cadmium	L9812133-01-MS	0.2	0.187	94	75 - 125	
Cadmium	L9812133-01-MSD	0.2	0.192	96	75 - 125	2.6
Chromium	L12133i-09A-LCS	0.5	0.503	101	85 - 115	
Chromium	L12133i-LCS	0.5	0.477	95	85 - 115	
Chromium	L9812133-01-MS	0.5	0.476	95	75 - 125	
Chromium	L9812133-01-MSD	0.5	0.49	98	75 - 125	2.9
Lead	L12133i-09A-LCS	1	1.03	103	85 - 115	
Lead	L12133i-LCS	1	0.953	95	85 - 115	
Lead	L9812133-01-MS	1	0.939	94	75 - 125	
Lead	L9812133-01-MSD	1	1.01	101	75 - 125	7.3
Selenium	L12133i-LCS	0.5	0.56	112	85 - 115	
Selenium	L12133i-09A-LCS	0.5	0.51	102	85 - 115	
Selenium	L9812133-01-MS	0.5	0.471	94	75 - 125	
Selenium	L9812133-01-MSD	0.5	0.451	90	75 - 125	4.3
Silver	L12133i-09A-LCS	0.5	0.498	100	85 - 115	

ND - Not Detected

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12/8/98

12/21

12/21/98 N None 1000 50

Bechtel NevadaANALYTICAL SERVICES LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT/ CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION					
Project: CAU461 DURD#2		BN Org#: 2150		Send Report to: JEFF SMITH				Sampling Site: CAU461 - DURD#2					
Charge No.: C7P05G13		ASL Prog.:		Phone: 5-7725		Fax: 5-7761		M/S: NTS306		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. Doped Uranium			
Project Manager: JEFF SMITH				Turnaround: ☐ Standard - 30 days Non-rad, 60 Days Rad, Other: ☒ Rush Preliminary by: JAN 6, 1999				Final by: JAN 6, 1999					
Phone: 5-7725		Fax: 5-7761		M/S: NTS306		Final report format: ☒ Standard ☐ NTS-WAC ☐ Other:							
LAB USE ONLY				ANALYSES & METHOD				SAMPLE RECEIPT INFORMATION					
Rad SGD: C013		Non-Rad SGD: V557		By Gamma Spec. ISOTOPIC URANIUM NITROAROMATICS, NITROAMINES 8330 TCAP METALS 1311/600 7470 1311/9270				Are all sample containers received intact ☐ Yes ☐ No Comments:					
Rad Packet: H0026 H0027		Non-Rad Packet: W1588						Do the labels agree with this form? ☐ Yes ☐ No Comments:					
Client Services Representative: TED REDDING								Was a Material Clearance Tag submitted? ☐ Yes ☐ No Comments:					
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: TR Date: 12/9/98								COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)					
ITEM	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX									
0	DURD#2-1	12/8/98	0935	SOIL	X	X	X	X					40C All samples
1	DURD#2-2	12/8/98	0955	SOIL	X	X	X	X					TCAP Metals/Semivolatiles 1R
2	DURD#2-3	12/8/98	1000	SOIL	X	X	X	X					500ml glass per sample
3	DURD#2-4	12/8/98	1320	SOIL	X	X	X	X					Nitroaromatics/Nitroamines 1R
4	DURD#2-5	12/8/98	1335	SOIL	X	X	X	X					125ml glass per sample
5	DURD#2-6	12/8/98	1350	SOIL	X	X	X	X					Isotopic Uranium 1R 500ml NaCl
6	DURD#2-MS	12/8/98	1400	SOIL		X	X	X					Water: Isotopic U 2R 500ml NaCl
7	DURD#2-MSD	12/8/98	1400	SOIL		X	X	X					TCAP Metals 1R 1000ml glass
8	DURD#2-ER	12/8/98	1415	Water	X	X	X	X					TCAP Semivol 1R 1000ml glass
9													Nitroaromatics/Nitroamines 2R 1000ml glass
Transfer of samples submitted for analyses					Complete for samples shipped to an OFF-SITE Subcontract Laboratory NEL								
Sampled/Relinquished (Signature/Organization)		DATE / TIME		Received by (Signature/Organization)		Relinquished (BN Representative Signature)		DATE / TIME		Received (Courier & Tracking Info.)			
James D. Brier		12-9-98/1400		C.D. Castaneda		C.D. Castaneda		12/11/98/1630		D.M. Haworth			
						Relinquished (Courier & Tracking Info.)		DATE / TIME		Received (1st tier Subcontractor Rep)			
						D.M. Haworth		12/11/98/1735		W. J. ...			
						Relinquished (1st tier Subcontractor Rep)		DATE / TIME		Received (2nd tier Subcontractor Rep)			

I. GENERAL INFORMATION

Sample Delivery Group: V557 Client: Bechtel Nevada
Laboratory: NEL Reviewed by: Marsha C. Webb Date: August 9, 1999
Requested Analysis: SVO Methods: Extraction 1311 Analysis 8270
Matrix: Soil + 1 water

II. COMPLETENESS

- A. Were all deliverables submitted?
B. Are forms properly completed and legible?
C. Were all requested analyses performed by the laboratory?
D. Were the requested analytical methods used for analysis?

Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

III. DATA ASSESSMENT SUMMARY

- () A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
(X) B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
() C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

IV. HOLDING TIME COMPLIANCE

	Date	# Days	Acceptable
A. Sampled	<u>12/8/98</u>	<u>NA</u>	<u>0 - 2</u>
B. ASL Received:	<u>12/9/98</u>	<u>1</u>	<u>1</u>
C. Contract Lab Received:	<u>12/11/98</u>	<u>3</u>	<u>7</u>
D. Latest TCLP Extraction:	<u>12/17/98</u>	<u>9</u>	<u>14</u>
E. Latest Preparative Extraction:	<u>12/18/98</u>	<u>1</u>	<u>7</u>
F. Latest Date Analyzed:	<u>12/21/98</u>	<u>3</u>	<u>40</u>

Were holding time criteria met? (X) Yes () No

V. INSTRUMENT & SAMPLE QA/QC CRITERIA**A. INSTRUMENT QUALITY CONTROL**

1. Were all samples analyzed within a valid 12-hour tune period?
2. Tune - Decafluorotriphenylphosphine Ion Abundances
3. Calibrations Initial: SPCC RRF values
CCC % RSD, CoV ≥ 0.99
Verification: SPCC RRF values
CCC % D, Conc. % Drift
IS Area and Retention Times

Criteria met		
Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Blanks: Were target compounds detected in field or laboratory blanks?
If so, were they detected:
a. at > 5 times the CRDL / PQL / Reporting Limit?
b. in the samples at > 5 times the blank value (non-common lab contaminants) or > 10 times the blank value (common lab contaminants)?
2. Lab Control Sample: Were recoveries within acceptable limits?
3. Samples
a. Were target compounds detected in the samples?
b. If so, were the raw EICPs provided which confirm the qualification?
c. Were concentrations calculated accurately?
4. Were all Surrogate recoveries acceptable?
5. Were all Internal Standard Areas and Retention Times within control limits?

<u> </u>	<u>X</u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u> </u>	<u> </u>	<u>X</u>
<u> </u>	<u>X</u>	<u> </u>
<u> </u>	<u>X</u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u> </u>	<u> </u>	<u>X</u>
<u> </u>	<u>X</u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

V. INSTRUMENT & SAMPLE QA/QC CRITERIA

Criteria met

6. As appropriate, were the following within quality control limits:
- a. MS/MSD recoveries and RPDs
 - b. Lab and/or field duplicate RPDs

Yes	No	NA
	X	
		X

I* = indeterminant

COMMENTS: LCS/LCSD substituted for MS/MSD; samples qualified based on LCS and surrogate recoveries.

Margaret Walsh
Reviewer Signature:

8/9/99
Date:

I. GENERAL INFORMATION

Sample Delivery Group:	<u>V557</u>	Client:	<u>Bechtel Nevada</u>
Laboratory:	<u>NEL</u>	Reviewed by:	<u>Marsha C. Webb</u> Date: <u>8/9/99</u>
Requested Analysis:	<u>Nitroaromatics</u>	Methods:	<u>Extraction</u> <u>NA</u> Analysis <u>8330</u>
Matrix:	<u>Soils</u>		

II. COMPLETENESS

- A. Were all deliverables submitted?
 B. Are forms properly completed and legible?
 C. Were all requested analyses performed by the laboratory?
 D. Were the requested analytical methods used for analysis?

Criteria Met

Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

III. DATA ASSESSMENT SUMMARY

- (X) A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
 0 B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
 0 C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

IV. HOLDING TIME COMPLIANCE

	Date	# Days	Acceptable
A. Sampled	<u>12/8/98</u>	<u>NA</u>	<u>0 - 2</u>
B. ASL Received:	<u>12/9/98</u>	<u>1</u>	<u>1</u>
C. Contract Lab Received:	<u>12/11/98</u>	<u>3</u>	<u>7</u>
D. Latest Extraction:	<u>12/18/98</u>	<u>10</u>	<u>14</u>
E. Latest Date Analyzed:	<u>12/21/98</u>	<u>3</u>	<u>40</u>

Were holding time criteria met? (X) Yes 0 No

V. INSTRUMENT & SAMPLE QA/QC COMPLIANCE**A. INSTRUMENT QUALITY CONTROL**

1. Calibrations Blank: Within 3X of the IDL (< reporting limit)
 Initial: 3 Standards minimum
 $R^2 > 0.995$ or %RSD met
 Verification: ICV within $\pm 20\%$
 CCV every 10 samples within $\pm 20\%$

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Prep blank: Were target compounds detected in field or laboratory blanks?
 2. Lab Control Sample: Were recoveries within acceptable limits? ($\pm 20\%$)
 3. Samples
 a. Were target compounds detected in the samples?
 b. Were concentrations calculated correctly?
 4. As appropriate, were the following within quality control limits:
 a. MS/MSD recoveries (75-125 %) MS/MSD RPD (20%)
 b. Lab and/or field duplicate RPDs (<20%)
 c. Surrogate recoveries within quality control limits

Criteria met

Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u>X</u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u>X</u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u>X</u>	<u> </u>	<u> </u>

COMMENTS: The run log for 12/22/98 is included in the package, but the data is NOT.

DURD#2-MS and DURD#2-MSD were not analyzed nor reported...

Marsha C. White

Reviewer Signature:

August 9, 1999 (2:09pm)

Date:

I. GENERAL INFORMATION

Sample Delivery Group:	V557	Client:	Bechtel Nevada	
Laboratory:	NEL	Reviewed by:	Marsha C. Webb	Date: 8/9/99
Requested Analysis:	RCRA Metals	Methods:	Extraction 1311	Analysis 6010
Matrix:	Soils + 1 water (not extracted, filtered)			

II. COMPLETENESS

- A. Were all deliverables submitted?
B. Are forms properly completed and legible?
C. Were all requested analyses performed by the laboratory?
D. Were the requested analytical methods used for analysis?

Criteria Met		
Yes	No	NA
<u>X</u>		
<u>X</u>		
<u>X</u>		
<u>X</u>		

III. DATA ASSESSMENT SUMMARY

- () A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
(X) B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
() C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

IV. HOLDING TIME COMPLIANCE

	Date	# Days	Acceptable
A. Sampled	12/8/98	NA	0 - 2
B. ASL Received:	12/9/98	1	1
C. Contract Lab Received:	12/11/98	3	7
D. Latest Extraction:	12/17/98	9	14
E. Latest Date Analyzed:	12/18/98	1	180

Were holding time criteria met? (X) Yes () No

V. INSTRUMENT & SAMPLE QA/QC COMPLIANCE**A. INSTRUMENT QUALITY CONTROL**

1. Calibrations
Blank: Within 3X of the IDL
Initial: Minimum of Cal Blank and 1 Standard
Verification: ICV, CCVs, check standard within $\pm 10\%$
RSD < 5% for ≥ 2 replicate integrations
within $\pm 20\%$ true value
2. Interference Check Sample

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Blanks: Were target compounds detected in field or laboratory blanks?
If so, were they detected:
a. at levels $\geq$ CRDL?
b. in the samples at < 5 times the blank value?
2. Lab Control Sample: Were recoveries within acceptable limits?
3. Samples
a. Were target compounds detected in the samples?
b. Were concentrations calculated correctly?
4. As appropriate, were the following within quality control limits:
a. MS/MSD recoveries and RPDs
b. Lab and/or field duplicate RPDs
c. Serial dilution within $\pm 10\%$ for undiluted concentrations $\geq 10X$ the IDL

Criteria met

Yes	No	NA
<u>X</u>		
<u>X</u>		
<u>X</u>		
<u>X</u>		
	<u>X</u>	
	<u>X</u>	
<u>X</u>		
	<u>X</u>	
<u>X</u>		
		<u>X</u>
		<u>X</u>
		<u>X</u>

COMMENTS:

The TCLP extraction was done on 25 g rather than 100g. The extraction sheet did NOT have sample pH, fluid # used, post pH, pH of extraction fluid used, start time; end time; room temp; rpm check; etc.

ICSA/ICSAB AS did not pass. The standards were not rerun.

Morgan C. C. C.

Reviewer Signature:

August 9, 1999 (1:44pm)

Date:

I. GENERAL INFORMATION

Sample Delivery Group:	V557	Client:	Bechtel Nevada	
Laboratory:	NEL	Reviewed by:	Marsha C. Webb	Date: 8/9/99
Requested Analysis:	Hg	Methods:	Extraction 1311	Analysis 7470
Matrix:	Soil + 1 water			

II. COMPLETENESS

- A. Were all deliverables submitted?
- B. Are forms properly completed and legible?
- C. Were all requested analyses performed by the laboratory?
- D. Were the requested analytical methods used for analysis?

Criteria Met		
Yes	No	NA
X		
X		
X		
X		

III. DATA ASSESSMENT SUMMARY

- () A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
- (X) B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
- () C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

IV. HOLDING TIME COMPLIANCE

- A. Sampled
B. ASL Received:
C. Contract Lab Received:
D. Latest Extraction:
E. Latest Date Analyzed:
Were holding time criteria met?

E	Date	# Days
	12/8/98	NA
	12/9/98	1
	12/11/98	3
	12/17/98	9
	12/18/98	1

(X) Yes () No

Acceptable
0 - 2
1
7
14
28

V. INSTRUMENT & SAMPLE QA/OC COMPLIANCE

A. INSTRUMENT QUALITY CONTROL

1. Calibrations
<u>Blank:</u>	Within 3X of the IDL
<u>Initial:</u>	Cal Blank and 5 Standards
	$R^2 > 0.995$
<u>Verification:</u>	ICV within $\pm 10\%$
	CCV every 10 samples within $\pm 20\%$

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Prep blank: Were target compounds detected in field or laboratory blanks?
2. Lab Control Sample: Were recoveries within acceptable limits? (80-120%)
3. Samples
 - a. Were target compounds detected in the samples?
 - b. Were concentrations calculated correctly?
4. As appropriate, were the following within quality control limits:
 - a. MS/MSD recoveries (75-125 %)
 - b. Lab and/or field duplicate RPDs (<20%)
 - c. Serial dilution within $\pm 10\%$ for undiluted concentrations $\geq 10X$ the IDL

Criteria met		
Yes	No	NA
X		
X		
X		
X		
X		
X		
X		
X		
X		
	X	
X		
X		
		X
		X

COMMENTS:

The TCLP extraction was done on 25 g rather than 100g. The extraction sheet did NOT have sample pH, fluid # used, post pH, pH of extraction fluid used, start time; end time; room temp; rpm check; etc.

Mervin C. Webb

Reviewer Signature:

August 9, 1999 (1:38pm)

Date:

Bechtel Nevada Corporation

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

Page 1

Reported to: Environmental Restoration
CAU 461 & 495 DU Site
J. L. Smith, M/S NTS306

Report Date: 14-DEC-98
Sample Delivery Group: C013
Batch: 0578
Program: 720

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
DURD #2-ER	No Nucl Det	GAM20	0.00E+00	0.0E+00	U	0.0E+00	NA	12-09-98	12-08-98	5.00E+02	ml	Water			08-01	H0227-0-75293
DURD #2-ER	U 238	GAM20	0.00E+00	0.0E+00	U	1.2E+01	pCi/g	12-09-98	12-08-98	5.00E+02	ml	Water			08-01	H0227-0-75293
QA BKG WATER U08	No Nucl Det	GAM20	0.00E+00	0.0E+00	U	0.0E+00	NA	12-09-98	07-01-98	5.00E+02	ml	QUAL			08-01	Q0624-0-00343
QA BKG WATER U08	AM241	GAM20	0.00E+00	0.0E+00	U	7.9E+02	pCi	12-09-98	07-01-98	1.00E+00	sm	QUAL			08-01	Q0624-0-00343
QA BKG WATER U08	CO60	GAM20	0.00E+00	0.0E+00	U	3.6E+01	pCi	12-09-98	07-01-98	1.00E+00	sm	QUAL			08-01	Q0624-0-00343
QA BKG WATER U08	CS137	GAM20	0.00E+00	0.0E+00	U	3.8E+01	pCi	12-09-98	07-01-98	1.00E+00	sm	QUAL			08-01	Q0624-0-00343
QA SP:QAW-8	AM241	GAM20	7.14E+04	9.9E+00		1.3E+03	pCi	12-09-98	08-01-90	1.00E+00	sm	QUAL		102.1	08-01	Q0619-3-16258
QA SP:QAW-8	CO60	GAM20	7.04E+04	8.5E+00		2.2E+02	pCi	12-09-98	08-01-90	1.00E+00	sm	QUAL		97.4	08-01	Q0619-3-16258
QA SP:QAW-8	CS137	GAM20	5.97E+04	7.9E+00		1.1E+02	pCi	12-09-98	08-01-90	1.00E+00	sm	QUAL		96.1	08-01	Q0619-3-16258

Comment:

Data generated from analyses performed on samples submitted
12/9/98. Gamma spectroscopy was performed in order to analyze
for U-238 within the turnaround requested by the project.

Prepared by:

Date:

12/14/98

Approved by:

Date:

12/15/98

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

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Reported to: Environmental Restoration
CAU 461 & 495 DU Site
J. L. Smith, M/S NTS306

Report Date: 14-DEC-98
Sample Delivery Group: C013
Batch: 0862
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
DURD #2-1	K 40	GAM20	2.85E+01	1.8E+01		1.2E+00	pCi/g	12-09-98	12-08-98	7.56E+02	gm	SOIL G			05-01	H0226-0-75287
DURD #2-1	RA226	GAM20	1.50E+00	2.6E+01		1.5E-01	pCi/g	12-09-98	12-08-98	7.56E+02	gm	SOIL G			05-01	H0226-0-75287
DURD #2-1	TH228	GAM20	2.66E+00	1.8E+01		1.7E-01	pCi/g	12-09-98	12-08-98	7.56E+02	gm	SOIL G			05-01	H0226-0-75287
DURD #2-1	TH232	GAM20	2.57E+00	2.9E+01		3.8E-01	pCi/g	12-09-98	12-08-98	7.56E+02	gm	SOIL G			05-01	H0226-0-75287
DURD #2-1	U 238	GAM20	0.00E+00	0.0E+00	U	2.6E+01	pCi/g	12-09-98	12-08-98	7.56E+02	gm	SOIL G			05-01	H0226-0-75287
DURD #2-2	K 40	GAM20	2.55E+01	1.9E+01		1.3E+00	pCi/g	12-09-98	12-08-98	6.50E+02	gm	SOIL G			05-01	H0226-1-75288
DURD #2-2	RA226	GAM20	1.52E+00	2.4E+01		1.5E-01	pCi/g	12-09-98	12-08-98	6.50E+02	gm	SOIL G			05-01	H0226-1-75288
DURD #2-2	TH228	GAM20	2.00E+00	2.0E+01		1.7E-01	pCi/g	12-09-98	12-08-98	6.50E+02	gm	SOIL G			05-01	H0226-1-75288
DURD #2-2	TH232	GAM20	1.90E+00	3.3E+01		3.9E-01	pCi/g	12-09-98	12-08-98	6.50E+02	gm	SOIL G			05-01	H0226-1-75288
DURD #2-2	U 238	GAM20	0.00E+00	0.0E+00	U	2.2E+01	pCi/g	12-09-98	12-08-98	6.50E+02	gm	SOIL G			05-01	H0226-1-75288

Comment:

Data generated from analyses performed on samples submitted
12/9/98. Gamma spectroscopy was performed in order to analyze
for U-238 within the turnaround requested by the project.

Prepared by:

Date: 12/14/98

Approved by:

Date: 12/15/98

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

Page 3

Reported to: Environmental Restoration
CAU 461 & 495 DU Site
J. L. Smith, M/S NTS306

Report Date: 14-DEC-98
Sample Delivery Group: C013
Batch: 0862
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
DURD #2-3	K 40	GAM20	2.33E+01	1.9E+01		1.2E+00	pCi/g	12-09-98	12-08-98	7.06E+02	gm	SOIL G			05-01	H0226-2-75289
DURD #2-3	RA226	GAM20	1.69E+00	2.3E+01		1.8E-01	pCi/g	12-09-98	12-08-98	7.06E+02	gm	SOIL G			05-01	H0226-2-75289
DURD #2-3	TH228	GAM20	2.09E+00	2.0E+01		1.7E-01	pCi/g	12-09-98	12-08-98	7.06E+02	gm	SOIL G			05-01	H0226-2-75289
DURD #2-3	TH232	GAM20	1.87E+00	3.4E+01		3.8E-01	pCi/g	12-09-98	12-08-98	7.06E+02	gm	SOIL G			05-01	H0226-2-75289
DURD #2-3	U 238	GAM20	0.00E+00	0.0E+00	U	2.2E+01	pCi/g	12-09-98	12-08-98	7.06E+02	gm	SOIL G			05-01	H0226-2-75289
DURD #2-4	K 40	GAM20	3.22E+01	1.8E+01		1.2E+00	pCi/g	12-09-98	12-08-98	7.86E+02	gm	SOIL G			05-01	H0226-3-75290
DURD #2-4	RA226	GAM20	1.02E+00	3.3E+01		1.8E-01	pCi/g	12-09-98	12-08-98	7.86E+02	gm	SOIL G			05-01	H0226-3-75290
DURD #2-4	TH228	GAM20	2.58E+00	1.8E+01		1.7E-01	pCi/g	12-09-98	12-08-98	7.86E+02	gm	SOIL G			05-01	H0226-3-75290
DURD #2-4	TH232	GAM20	2.02E+00	3.2E+01		3.8E-01	pCi/g	12-09-98	12-08-98	7.86E+02	gm	SOIL G			05-01	H0226-3-75290
DURD #2-4	U 238	GAM20	0.00E+00	0.0E+00	U	2.3E+01	pCi/g	12-09-98	12-08-98	7.86E+02	gm	SOIL G			05-01	H0226-3-75290

Comment:

Data generated from analyses performed on samples submitted
12/9/98. Gamma spectroscopy was performed in order to analyze
for U-238 within the turnaround requested by the project.

Prepared by:

Date:

12/14/98

Approved by:

Date:

12/15/98

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

Page 4

Reported to: Environmental Restoration
CAU 461 & 495 DU Site
J. L. Smith, M/S NTS306

Report Date: 14-DEC-98
Sample Delivery Group: C013
Batch: 0862
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
DURD #2-5	K 40	GAM20	2.96E+01	1.8E+01		1.2E+00	pCi/g	12-09-98	12-08-98	7.79E+02	gm	SOIL G			05-01	H0226-4-75291
DURD #2-5	RA226	GAM20	1.33E+00	2.8E+01		1.5E-01	pCi/g	12-09-98	12-08-98	7.79E+02	gm	SOIL G			05-01	H0226-4-75291
DURD #2-5	TH228	GAM20	2.56E+00	1.8E+01		1.7E-01	pCi/g	12-09-98	12-08-98	7.79E+02	gm	SOIL G			05-01	H0226-4-75291
DURD #2-5	TH232	GAM20	2.05E+00	3.2E+01		3.8E-01	pCi/g	12-09-98	12-08-98	7.79E+02	gm	SOIL G			05-01	H0226-4-75291
DURD #2-5	U 238	GAM20	0.00E+00	0.0E+00	U	2.5E+01	pCi/g	12-09-98	12-08-98	7.79E+02	gm	SOIL G			05-01	H0226-4-75291
DURD #2-6	K 40	GAM20	2.68E+01	1.9E+01		1.2E+00	pCi/g	12-09-98	12-08-98	6.94E+02	gm	SOIL G			05-01	H0226-5-75292
DURD #2-6	RA226	GAM20	1.24E+00	2.7E+01		1.8E-01	pCi/g	12-09-98	12-08-98	6.94E+02	gm	SOIL G			05-01	H0226-5-75292
DURD #2-6	TH228	GAM20	2.57E+00	1.8E+01		1.7E-01	pCi/g	12-09-98	12-08-98	6.94E+02	gm	SOIL G			05-01	H0226-5-75292
DURD #2-6	TH232	GAM20	2.47E+00	3.0E+01		3.8E-01	pCi/g	12-09-98	12-08-98	6.94E+02	gm	SOIL G			05-01	H0226-5-75292
DURD #2-6	U 238	GAM20	0.00E+00	0.0E+00	U	2.7E+01	pCi/g	12-09-98	12-08-98	6.94E+02	gm	SOIL G			05-01	H0226-5-75292

Comment:

Data generated from analyses performed on samples submitted
12/9/98. Gamma spectroscopy was performed in order to analyze
for U-238 within the turnaround requested by the project.

Prepared by:

Date:

12/14/98

Approved by:

Date:

12/15/98

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

Page 5

Reported to: Environmental Restoration
CAU 461 & 495 DU Site
J. L. Smith, M/S NTS306

Report Date: 14-DEC-98
Sample Delivery Group: C013
Batch: 0862
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	No Nucl Det	GAM20	0.00E+00	0.0E+00	U	0.0E+00	NA	12-09-98	07-01-98	1.00E+00	gm	QUAL			05-01	Q0631-0-00344
QA BKG EMPTY BTL U05	AM241	GAM20	0.00E+00	0.0E+00	U	2.3E+01	pCi	12-09-98	07-01-98	1.00E+00	sm	QUAL			05-01	Q0631-0-00344
QA BKG EMPTY BTL U05	CO60	GAM20	0.00E+00	0.0E+00	U	9.9E+00	pCi	12-09-98	07-01-98	1.00E+00	sm	QUAL			05-01	Q0631-0-00344
QA BKG EMPTY BTL U05	CS137	GAM20	0.00E+00	0.0E+00	U	7.2E+00	pCi	12-09-98	07-01-98	1.00E+00	sm	QUAL			05-01	Q0631-0-00344
QA SP:NAS-A0271	AM241	GAM20	1.80E+05	8.8E+00		2.9E+02	pCi	12-09-98	04-01-92	1.00E+00	sm	QUAL		111.0	05-01	Q0630-3-16259
QA SP:NAS-A0271	CO60	GAM20	3.01E+05	8.6E+00		1.9E+02	pCi	12-09-98	04-01-92	1.00E+00	sm	QUAL		101.0	05-01	Q0630-3-16259
QA SP:NAS-A0271	CS137	GAM20	2.06E+05	8.1E+00		6.8E+01	pCi	12-09-98	04-01-92	1.00E+00	sm	QUAL		101.3	05-01	Q0630-3-16259

Comment:

Data generated from analyses performed on samples submitted
12/9/98. Gamma spectroscopy was performed in order to analyze
for U-238 within the turnaround requested by the project.

Prepared by:

Date:

12/14/98

Approved by:

Date:

12/15/98

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

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

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**SAMPLE
DELIVERY
GROUP
V653**

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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: V653
PROJECT NUMBER: 17777

NEL ORDER ID: L9907011

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 7/1/99.

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.

Some QA results have been flagged as follows:

J - This concentration should be considered an estimate due laboratory control sample failure.

Stan Van Wagenen
Laboratory Manager

7-9-99
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California		Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605	Idaho	Certified	Certified	
California	1707	2002	2264	Montana	Certified	Certified	
US Army Corps of Engineers	Certified	Certified	Certified	Nevada	NV033	NV052	CA084
				L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - RB1
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907011-01

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Aqueous
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/2/99
ANALYZED: 7/7/99

PARAMETER	Result	Reporting Limit
2-Am-DNT & 4-Am-DNT	ND	1.5 µg/L
2,4-DNT & 2,6-DNT	ND	1.5 µg/L
1,3-DNB	ND	1.5 µg/L
HMX	ND	1.5 µg/L
Nitrobenzene	ND	1.5 µg/L
2-Nitrotoluene	ND	2. µg/L
3-Nitrotoluene	ND	2.5 µg/L
4-Nitrotoluene	ND	2. µg/L
RDX	ND	4. µg/L
Tetryl	ND J	3. µg/L
1,3,5-TNB	ND	1. µg/L
2,4,6-TNT	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
1,2-Dinitrobenzene	94	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 070299-H1-BLK

TEST: Nitroaromatics and Nitroamines by EPA 8330
MATRIX: Aqueous

ANALYST: YW - Reno Division
EXTRACTED: 7/2/99
ANALYZED: 7/7/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
2-Am-DNT & 4-Am-DNT	ND	1.5 µg/L
1,3-DNB	ND	1.5 µg/L
2,4-DNT & 2,6-DNT	ND	1.5 µg/L
HMX	ND	1.5 µg/L
Nitrobenzene	ND	1.5 µg/L
2-Nitrotoluene	ND	2. µg/L
3-Nitrotoluene	ND	2.5 µg/L
4-Nitrotoluene	ND	2. µg/L
RDX	ND	4. µg/L
Tetryl	ND	3. µg/L
1,3,5-TNB	ND	1. µg/L
2,4,6-TNT	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
1,2-Dinitrobenzene	93	70 - 130

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - RB1
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907011-01

TEST: TCLP-8 Metals
MATRIX: Aqueous

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	NA	7/7/99	7/7/99
Barium	ND	1. mg/L	1	EPA 6010	NA	7/7/99	7/7/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	NA	7/7/99	7/7/99
Chromium	ND	0.01 mg/L	1	EPA 6010	NA	7/7/99	7/7/99
Lead	ND	0.05 mg/L	1	EPA 6010	NA	7/7/99	7/7/99
Mercury	0.011	0.002 mg/L	10	EPA 7470A	NA	7/7/99	7/7/99
Selenium	ND	0.1 mg/L	1	EPA 6010	NA	7/7/99	7/7/99
Silver	ND	0.02 mg/L	1	EPA 6010	NA	7/7/99	7/7/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L07011i-BLK

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

PARAMETER	RESULT	REPORTING		D. F.	TCLP/STLC EXTRACTION			ANALYZED
		LIMIT			METHOD	DATE	DIGESTED	
Arsenic	ND	0.1 mg/L	1		EPA 6010	NA	7/7/99	7/7/99
Barium	ND	1 mg/L	1		EPA 6010	NA	7/7/99	7/7/99
Cadmium	ND	0.01 mg/L	1		EPA 6010	NA	7/7/99	7/7/99
Chromium	ND	0.01 mg/L	1		EPA 6010	NA	7/7/99	7/7/99
Lead	ND	0.05 mg/L	1		EPA 6010	NA	7/7/99	7/7/99
Selenium	ND	0.1 mg/L	1		EPA 6010	NA	7/7/99	7/7/99
Silver	ND	0.02 mg/L	1		EPA 6010	NA	7/7/99	7/7/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: P07003HG-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	0.002 mg/L	10	EPA 7470A	NA	7/7/99	7/7/99

D.F. - Dilution Factor

ND - Not Detected

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

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - RB1
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907011-01

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

MATRIX: Aqueous
DILUTION: 1

TCLP EXTRACT DATE: NA
EXTRACTED: 7/2/99
ANALYZED: 7/7/99

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
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	66	10 - 123
2-Fluorobiphenyl	54	43 - 116
2-Fluorophenol	32	21 - 100
Nitrobenzene-d5	53	35 - 114
p-Terphenyl-d14	105	33 - 141
Phenol-d5	21	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 070299-E2-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: NA
EXTRACTED: 7/2/99
ANALYZED: 7/7/99

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
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	63	10 - 123
2-Fluorobiphenyl	56	43 - 116
2-Fluorophenol	32	21 - 100
Nitrobenzene-d5	54	35 - 114
p-Terphenyl-d14	108	33 - 141
Phenol-d5	21	10 - 94

ND - Not Detected

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

I. GENERAL INFORMATION

Sample Delivery Group:	<u>V653</u>	Client:	<u>Bechtel Nevada</u>
Laboratory:	<u>NEL</u>	Reviewed by:	<u>Marsha C. Webb</u> Date: <u>August 25, 1999</u>
Requested Analysis:	<u>SVO (TCLP)</u>	Methods:	Extraction <u>MA-TR 1311</u> Analysis <u>8270</u>
Matrix:	<u>Water</u>		

II. COMPLETENESS

- A. Were all deliverables submitted?
B. Are forms properly completed and legible?
C. Were all requested analyses performed by the laboratory?
D. Were the requested analytical methods used for analysis?

Yes	No	NA
X		
X		
X		
X		

III. DATA ASSESSMENT SUMMARY

- () A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
- NR* () B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
- () C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

IV. HOLDING TIME COMPLIANCE

A. Sampled	6/29/99
B. ASL Received:	6/30/99
C. Contract Lab Received:	7/1/99
D. Latest TCLP Extraction:	NA
E. Latest Preparative Extraction:	7/2/99
F. Latest Date Analyzed:	7/7/99
Were holding time criteria met?	(X) Yes () No

Date

Days

Acceptable

6/29/99

NA

0-2

6/30/99

1

1

7/1/99

2

7

NA

NA

14

7/2/99

3

7

7/7/99

5

40

☐ No

V. INSTRUMENT & SAMPLE QA/QC CRITERIA

A. INSTRUMENT QUALITY CONTROL

1. Were all samples analyzed within a valid 12-hour tune period?	
2. Tune - Decafluorotriphenylphosphine	Ion Abundances
3. Calibrations	SPCC RRF values
<u>Initial:</u>	CCC % RSD, CoV ≥ 0.99
<u>Verification:</u>	SPCC RRF values
	CCC % D, Conc. % Drift
	IS Area and Retention Times

Criteria met

Yes

No

NA

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Blanks: Were target compounds detected in field or laboratory blanks?
If so, were they detected:
 - a. at > 5 times the CRDL / PQL / Reporting Limit?
 - b. in the samples at > 5 times the blank value (non-common lab contaminants) or > 10 times the blank value (common lab contaminants)?
2. Lab Control Sample: Were recoveries within acceptable limits?
3. Samples
 - a. Were target compounds detected in the samples?
 - b. If so, were the raw EICPs provided which confirm the qualification?
 - c. Were concentrations calculated accurately?
4. Were all Surrogate recoveries acceptable?
5. Were all Internal Standard Areas and Retention Times within control limits?

Yes	No	NA
	X	
		X
		X
X		
	X	
		X
X		
X		
X		

V. INSTRUMENT & SAMPLE QA/QC CRITERIA**Criteria met**

6. As appropriate, were the following within quality control limits:

- a. MS/MSD recoveries and RPDs
- b. Lab and/or field duplicate RPDs

Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>

I* = indeterminate

COMMENTS: Tune data was not found in the data package. The 50 ng std was run, but the continuing calibration report was not included. LCS and MS/MSD spiking compounds and spiking levels would be useful information!

Margaret Wilson
Reviewer Signature:

August 26, 1999 (3:54pm)
Date:

I. GENERAL INFORMATION

Sample Delivery Group: V653 Client: Bechtel Nevada
Laboratory: NEL Reviewed by: Marsha C. Webb Date: 8/26/99
Requested Analysis: Nitroaromatics Methods: Extraction NA Analysis 8330
Matrix: Water

II. COMPLETENESS

- A. Were all deliverables submitted?
B. Are forms properly completed and legible?
C. Were all requested analyses performed by the laboratory?
D. Were the requested analytical methods used for analysis?

Criteria Met		
Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

III. DATA ASSESSMENT SUMMARY

- ☐ A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
☒ B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
☐ C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

IV. HOLDING TIME COMPLIANCE

	Date	# Days	Acceptable
A. Sampled	<u>6/29/99</u>	<u>NA</u>	<u>0 - 2</u>
B. ASL Received:	<u>6/30/99</u>	<u>1</u>	<u>1</u>
C. Contract Lab Received:	<u>7/1/99</u>	<u>2</u>	<u>7</u>
D. Latest Extraction:	<u>7/2/99</u>	<u>3</u>	<u>14</u>
E. Latest Date Analyzed:	<u>7/7/99</u>	<u>5</u>	<u>40</u>

Were holding time criteria met? ☒ Yes ☐ No

V. INSTRUMENT & SAMPLE QA/QC COMPLIANCE**A. INSTRUMENT QUALITY CONTROL**

1. Calibrations Blank: Within 3X of the IDL (< reporting limit)
Initial: 3 Standards minimum
 $R^2 > 0.995$ or %RSD met
Verification: ICV within $\pm 20\%$
CCV beginning, ending within $\pm 20\%$

Criteria met		
Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Prep blank: Were target compounds detected in field or laboratory blanks?
2. Lab Control Sample: Were recoveries within acceptable limits? ($\pm 20\%$)
3. Samples
a. Were target compounds detected in the samples?
b. Were concentrations calculated correctly?
4. As appropriate, were the following within quality control limits:
a. MS/MSD recoveries and RPDs
b. Lab and/or field duplicate RPDs
c. Surrogate recoveries within quality control limits (70-130%)

<u> </u>	<u>X</u>	<u> </u>
<u> </u>	<u>X</u>	<u> </u>
<u> </u>	<u>X</u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u>X</u>	<u> </u>	<u> </u>

COMMENTS: Low recovery for Tetryl; sample result qualified J, estimated, by the laboratory.

M. S. C. J. L. L.
Reviewer Signature:

August 26, 1999 (1:21pm)
Date:

I. GENERAL INFORMATION

Sample Delivery Group: V653 Client: Bechtel Nevada
 Laboratory: NEL Reviewed by: Marsha C. Webb Date: 8/26/99
 Requested Analysis: RCRA Metals (Total) TELP Methods: Extraction NA^{TR} 1311 Analysis 6010
 Matrix: Water

II. COMPLETENESS

- A. Were all deliverables submitted?
 B. Are forms properly completed and legible?
 C. Were all requested analyses performed by the laboratory?
 D. Were the requested analytical methods used for analysis?

Criteria Met		
Yes	No	NA
	X	
X		
X		
X		

III. DATA ASSESSMENT SUMMARY

- () A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
 X B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
 () C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

IV. HOLDING TIME COMPLIANCE

	Date	# Days	Acceptable
A. Sampled	6/29/99	NA	0 - 2
B. ASL Received:	6/30/99	1	1
C. Contract Lab Received:	7/1/99	2	7
D. Latest Extraction:	NA	NA	NA
E. Latest Date Analyzed:	7/7/99	9	180 (Others)

Were holding time criteria met? (X) Yes () No

V. INSTRUMENT & SAMPLE QA/QC COMPLIANCE

A. INSTRUMENT QUALITY CONTROL

1. Calibrations Blank: Within 3X of the IDL
Initial: Minimum of Cal Blank and 1 Standard
Verification: ICV, CCVs, check standard within $\pm 10\%$
 RSD < 5% for ≥ 2 replicate integrations
 2. Interference Check Sample within $\pm 20\%$ true value

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Blanks: Were target compounds detected in field or laboratory blanks?
 If so, were they detected:

- a. at levels $\geq$ CRDL?
 b. in the samples at < 5 times the blank value?

2. Lab Control Sample: Were recoveries within acceptable limits?

3. Samples

- a. Were target compounds detected in the samples?
 b. Were concentrations calculated correctly?

4. As appropriate, were the following within quality control limits:

- a. MS/MSD recoveries and RPDs
 b. Lab and/or field duplicate RPDs
 c. Serial dilution within $\pm 10\%$ for undiluted concentrations $\geq 10X$ the IDL

Criteria met

Yes	No	NA
X		
X		
X		
X		
	X ^{TR}	
		X ^{TR}
X		
	X ^{TR}	
		X ^{TR}
X		
		X
		X

COMMENTS: The laboratory included the 1311 blank as the method blank for this sdg. This blank does ~~not~~^{TR} apply to this water sample. The submitted CCB blank @ 14:48 is an incomplete copy. The raw data submitted for the sample was run 7/7/99 at 16:27. Barium and Cadmium are detected; As is marked for a re-run. The sample is reported as ND for all analytes. Submit the correct raw data for the sample. Missing ending bracketing QC and ending ICSA, ICSAB runs.

based on reanalysis on 7/7/99 @ 16:31. R

Marsha C. White
Reviewer Signature:

August 26, 1999 (1:34pm)
Date:

I. GENERAL INFORMATION

Sample Delivery Group: V563^{TR} V653 Client: Bechtel Nevada
Laboratory: NEL Reviewed by: Marsha C. Webb Date: 8/26/99
Requested Analysis: Hg Methods: Extraction NA Analysis 7470
Matrix: Water

II. COMPLETENESS

- A. Were all deliverables submitted?
B. Are forms properly completed and legible?
C. Were all requested analyses performed by the laboratory?
D. Were the requested analytical methods used for analysis?

Criteria Met		
Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

III. DATA ASSESSMENT SUMMARY

- (X) A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
() B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
() C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

IV. HOLDING TIME COMPLIANCE

	Date	# Days	Acceptable
A. Sampled	<u>6/29/99</u>	<u>NA</u>	<u>0 - 2</u>
B. ASL Received:	<u>6/30/99</u>	<u>1</u>	<u>1</u>
C. Contract Lab Received:	<u>7/1/99</u>	<u>2</u>	<u>7</u>
D. Latest Extraction:	<u>NA</u>	<u>NA</u>	<u>NA</u>
E. Latest Date Analyzed:	<u>7/7/99</u>	<u>8</u>	<u>28</u>

Were holding time criteria met? (X) Yes () No

V. INSTRUMENT & SAMPLE QA/QC COMPLIANCE**A. INSTRUMENT QUALITY CONTROL**

1. Calibrations Blank: Within 3X of the IDL
Initial: Cal Blank and 5 Standards
 $R^2 > 0.995$
Verification: ICV within $\pm 10\%$
CCV every 10 samples within $\pm 20\%$

Criteria met		
Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Prep blank: Were target compounds detected in field or laboratory blanks?
2. Lab Control Sample: Were recoveries within acceptable limits? (80-120%)
3. Samples
a. Were target compounds detected in the samples?
b. Were concentrations calculated correctly?
4. As appropriate, were the following within quality control limits:
a. MS/MSD recoveries (75-125 %)
b. Lab and/or field duplicate RPDs ($< 20\%$)
c. Serial dilution within $\pm 10\%$ for undiluted concentrations $\geq 10X$ the IDL

<u> </u>	<u>X</u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u> </u>	<u> </u>	<u>X</u>

COMMENTS: Batch QC was not performed on this sample; batch QC was acceptable.

Marcin Calkin
Reviewer Signature:

August 26, 1999 (8:59am)
Date:

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: V653
PROJECT NUMBER: 17777

NEL ORDER ID: L9907046

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 7/7/99.

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.

Stan Van Wagenen
Laboratory Manager

7/21/99
Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>		<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0605	Idaho	Certified	Certified	
California	1707	2002	2264	Montana	Certified	Certified	
US Army Corps of Engineers	Certified	Certified	Certified	Nevada	NV033	NV052	CA084
				L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 01
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-01

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 02
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-02

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
1,4-DNB	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
2,4-DX	ND	2. mg/Kg
2,4,6-TNB	ND	0.65 mg/Kg
2,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 03
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-03

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 04
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-04

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
,3,5-TNB	ND	0.25 mg/Kg
,4,6-TNT	ND	0.25 mg/Kg

ID - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 05
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-05

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 06
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-06

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
IMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
CDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
2,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 07
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-07

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 08
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-08

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 09
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-09

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
2,4-Dinitrotoluene (DNT)	ND	0.25 mg/kg
2,6-Dinitrotoluene (DNT)	ND	0.25 mg/kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 10
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-10

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 11
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-11

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 12
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-12

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 13
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-13

TEST: Nitroaromatics and Nitroamines by EPA 8330
MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 14
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-14

TEST: Nitroaromatics and Nitroamines by EPA 8330
MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

PARAMETER	Result	Reporting
		Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 15
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-15

TEST: Nitroaromatics and Nitroamines by EPA 8330
MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 16
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-16

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 17
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-17

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 18
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-18

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 19
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-19

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 20
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-20

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

PARAMETER	Result	Reporting Limit
2,3-DNB	ND	0.25 mg/Kg
DMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
DX	ND	2. mg/Kg
2-ethyl	ND	0.65 mg/Kg
2,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 21
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-21

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 22
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-22

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 23
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-23

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 24
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-24

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 25
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-25

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 26
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-26

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
DMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Petryl	ND	0.65 mg/Kg
2,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 27
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-27

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 28
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-28

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid
DILUTION: 1

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

PARAMETER	Result	Reporting Limit
2,3-DNB	ND	0.25 mg/Kg
DMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
MDX	ND	2. mg/Kg
Metryl	ND	0.65 mg/Kg
2,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 070899-H1-BLK

TEST: Nitroaromatics and Nitroamines by EPA 8330
MATRIX: Solid

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/9/99

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
1,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 070899-H2-BLK

TEST: Nitroaromatics and Nitroamines by EPA 8330

MATRIX: Solid

ANALYST: YW - Reno Division
EXTRACTED: 7/8/99
ANALYZED: 7/10/99

PARAMETER	Result	Reporting Limit
1,3-DNB	ND	0.25 mg/Kg
HMX	ND	2. mg/Kg
Nitrobenzene	ND	0.25 mg/Kg
2-Nitrotoluene	ND	0.25 mg/Kg
3-Nitrotoluene	ND	0.25 mg/Kg
4-Nitrotoluene	ND	0.25 mg/Kg
RDX	ND	2. mg/Kg
Tetryl	ND	0.65 mg/Kg
2,3,5-TNB	ND	0.25 mg/Kg
2,4,6-TNT	ND	0.25 mg/Kg

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 01
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-01

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	0.071	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 02
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-02

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 03
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-03

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 04
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-04

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 05
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-05

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 06
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-06

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D. F. - Dilution Factor

ND - Not Detected

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

NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 07
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-07

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 08
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-08

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 09
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-09

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 10
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-10

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 11
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-11

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 12
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-12

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 13
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-13

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION	DIGESTED	ANALYZED
					DATE		
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 14
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-14

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 15
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-15

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 16
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-16

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 17
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-17

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 18
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-18

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 19
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-19

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 20
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-20

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 21
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-21

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 22
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-22

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 23
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-23

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 24
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-24

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cobalt	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 25
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-25

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 26
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-26

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 27
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-27

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 28
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-28

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION		
					DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1. mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Mercury	0.0021	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

I. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L07046-15-Hg-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	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L07046-01-Hg-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	0.002 mg/L	10	EPA 7470A	7/8/99	7/11/99	7/11/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L07046-15I-BLK

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

PARAMETER	RESULT	REPORTING		D. F.	TCLP/STLC EXTRACTION		
		LIMIT			METHOD	DATE	DIGESTED ANALYZED
Arsenic	ND	0.1 mg/L	1		EPA 6010	7/8/99	7/9/99 7/12/99
Barium	ND	1 mg/L	1		EPA 6010	7/8/99	7/9/99 7/12/99
Cadmium	ND	0.01 mg/L	1		EPA 6010	7/8/99	7/9/99 7/12/99
Chromium	ND	0.01 mg/L	1		EPA 6010	7/8/99	7/9/99 7/12/99
Lead	ND	0.05 mg/L	1		EPA 6010	7/8/99	7/9/99 7/12/99
Selenium	ND	0.1 mg/L	1		EPA 6010	7/8/99	7/9/99 7/12/99
Silver	ND	0.02 mg/L	1		EPA 6010	7/8/99	7/9/99 7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: L07046I-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	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Barium	ND	1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/8/99	7/9/99	7/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 01
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-01

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/17/99

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	61	10 - 123
2-Fluorobiphenyl	70	43 - 116
2-Fluorophenol	39	21 - 100
Nitrobenzene-d5	76	35 - 114
p-Terphenyl-d14	120	33 - 141
Phenol-d5	24	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 02
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-02

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/17/99

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
2,4-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:

Parameter	% Recovery	Acceptable Range
2,4,6-Tribromophenol	62	10 - 123
2-Fluorobiphenyl	79	43 - 116
2-Fluorophenol	42	21 - 100
Nitrobenzene-d5	82	35 - 114
1-Terphenyl-d14	119	33 - 141
Phenol-d5	26	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 03
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-03

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/17/99

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	60	10 - 123
2-Fluorobiphenyl	61	43 - 116
2-Fluorophenol	34	21 - 100
Nitrobenzene-d5	64	35 - 114
p-Terphenyl-d14	117	33 - 141
Phenol-d5	20	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 04
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-04

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/17/99

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
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	66	10 - 123
Fluorobiphenyl	84	43 - 116
Fluorophenol	47	21 - 100
Nitrobenzene-d5	91	35 - 114
Terphenyl-d14	117	33 - 141
enol-d5	28	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 05
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-05

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/17/99

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	61	10 - 123
2-Fluorobiphenyl	72	43 - 116
2-Fluorophenol	41	21 - 100
Nitrobenzene-d5	78	35 - 114
p-Terphenyl-d14	120	33 - 141
Phenol-d5	25	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 06
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-06

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/18/99

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	62	10 - 123
-Fluorobiphenyl	65	43 - 116
-Fluorophenol	35	21 - 100
Nitrobenzene-d5	67	35 - 114
-Terphenyl-d14	123	33 - 141
phenol-d5	24	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 07
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-07

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/18/99

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	61	10 - 123
2-Fluorobiphenyl	70	43 - 116
2-Fluorophenol	37	21 - 100
Nitrobenzene-d5	73	35 - 114
p-Terphenyl-d14	121	33 - 141
Phenol-d5	26	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 08
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-08

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/18/99

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
2,4-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	57	10 - 123
-Fluorobiphenyl	71	43 - 116
-Fluorophenol	37	21 - 100
Nitrobenzene-d5	72	35 - 114
Terphenyl-d14	124	33 - 141
phenol-d5	25	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 09
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-09

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/18/99

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	63	10 - 123
2-Fluorobiphenyl	77	43 - 116
2-Fluorophenol	41	21 - 100
Nitrobenzene-d5	81	35 - 114
p-Terphenyl-d14	107	33 - 141
Phenol-d5	28	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 10
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-10

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/18/99

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	69	10 - 123
Fluorobiphenyl	84	43 - 116
Fluorophenol	47	21 - 100
Nitrobenzene-d5	84	35 - 114
Terphenyl-d14	122	33 - 141
Phenol-d5	31	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 11
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-11

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/18/99

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	70	10 - 123
2-Fluorobiphenyl	74	43 - 116
2-Fluorophenol	43	21 - 100
Nitrobenzene-d5	80	35 - 114
p-Terphenyl-d14	118	33 - 141
Phenol-d5	29	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 12
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-12

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/18/99

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
1,2-Dichlorobenzene	ND	0.1 mg/L
1,2-Dichlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
o-Methylphenol	ND	0.1 mg/L
p-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
m,p,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	72	10 - 123
Fluorobiphenyl	79	43 - 116
Fluorophenol	44	21 - 100
Nitrobenzene-d5	85	35 - 114
p-Terphenyl-d14	128	33 - 141
Phenol-d5	29	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 13
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-13

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/18/99

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	78	43 - 116
2-Fluorophenol	42	21 - 100
Nitrobenzene-d5	83	35 - 114
p-Terphenyl-d14	118	33 - 141
Phenol-d5	28	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 14
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-14

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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/18/99

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	65	10 - 123
2-Fluorobiphenyl	70	43 - 116
2-Fluorophenol	37	21 - 100
Nitrobenzene-d5	72	35 - 114
p-Terphenyl-d14	107	33 - 141
Phenol-d5	25	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 15
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-15

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/19/99

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	61	10 - 123
2-Fluorobiphenyl	71	43 - 116
2-Fluorophenol	41	21 - 100
Nitrobenzene-d5	71	35 - 114
p-Terphenyl-d14	122	33 - 141
Phenol-d5	28	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 16
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-16

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/19/99

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	60	10 - 123
2-Fluorobiphenyl	71	43 - 116
2-Fluorophenol	36	21 - 100
Nitrobenzene-d5	71	35 - 114
p-Terphenyl-d14	122	33 - 141
Phenol-d5	25	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 17
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-17

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/19/99

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	55	10 - 123
2-Fluorobiphenyl	63	43 - 116
2-Fluorophenol	35	21 - 100
Nitrobenzene-d5	67	35 - 114
p-Terphenyl-d14	117	33 - 141
Phenol-d5	24	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 18
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-18

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/19/99

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
2,4-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	52	10 - 123
-Fluorobiphenyl	53	43 - 116
-Fluorophenol	31	21 - 100
Nitrobenzene-d5	57	35 - 114
-Terphenyl-d14	127	33 - 141
phenol-d5	20	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 19
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-19

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/19/99

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	50	10 - 123
2-Fluorobiphenyl	61	43 - 116
2-Fluorophenol	32	21 - 100
Nitrobenzene-d5	65	35 - 114
p-Terphenyl-d14	115	33 - 141
Phenol-d5	21	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 20
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-20

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/19/99

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	54	10 - 123
-Fluorobiphenyl	66	43 - 116
-Fluorophenol	35	21 - 100
Nitrobenzene-d5	67	35 - 114
-Terphenyl-d14	112	33 - 141
phenol-d5	24	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 21
DATE SAMPLED: 6/29/99
NEL SAMPLE ID: L9907046-21

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/19/99

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	52	10 - 123
2-Fluorobiphenyl	61	43 - 116
2-Fluorophenol	33	21 - 100
Nitrobenzene-d5	61	35 - 114
p-Terphenyl-d14	117	33 - 141
Phenol-d5	22	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 22
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-22

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/20/99

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
2,4-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	59	10 - 123
Fluorobiphenyl	67	43 - 116
Fluorophenol	35	21 - 100
Nitrobenzene-d5	68	35 - 114
Terphenyl-d14	92	33 - 141
Phenol-d5	26	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 23
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-23

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/20/99

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	72	43 - 116
2-Fluorophenol	35	21 - 100
Nitrobenzene-d5	70	35 - 114
p-Terphenyl-d14	102	33 - 141
Phenol-d5	24	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 24
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-24

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/20/99

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	58	10 - 123
2-Fluorobiphenyl	73	43 - 116
2-Fluorophenol	37	21 - 100
Nitrobenzene-d5	72	35 - 114
1,2,4-Triphenyl-d14	99	33 - 141
Phenol-d5	25	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 25
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-25

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/20/99

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	56	10 - 123
2-Fluorobiphenyl	69	43 - 116
2-Fluorophenol	35	21 - 100
Nitrobenzene-d5	68	35 - 114
p-Terphenyl-d14	85	33 - 141
Phenol-d5	26	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 26
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-26

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/20/99

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
o-Methylphenol	ND	0.1 mg/L
m,p-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	61	10 - 123
Fluorobiphenyl	68	43 - 116
Fluorophenol	34	21 - 100
Nitrobenzene-d5	67	35 - 114
Terphenyl-d14	102	33 - 141
Phenol-d5	24	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 27
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-27

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/20/99

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	71	43 - 116
2-Fluorophenol	34	21 - 100
Nitrobenzene-d5	71	35 - 114
p-Terphenyl-d14	99	33 - 141
Phenol-d5	24	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: TAML - VER - 28
DATE SAMPLED: 6/28/99
NEL SAMPLE ID: L9907046-28

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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/20/99

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
2,4-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	59	10 - 123
Fluorobiphenyl	67	43 - 116
Fluorophenol	33	21 - 100
Nitrobenzene-d5	66	35 - 114
Terphenyl-d14	107	33 - 141
Phenol-d5	23	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 070999-E1-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: 7/8/99
EXTRACTED: 7/9/99
ANALYZED: 7/21/99

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	62	10 - 123
2-Fluorobiphenyl	68	43 - 116
2-Fluorophenol	43	21 - 100
Nitrobenzene-d5	77	35 - 114
p-Terphenyl-d14	126	33 - 141
Phenol-d5	27	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: Bechtel Nevada
PROJECT ID: V653
PROJECT #: 17777

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 071299-E1-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: 7/8/99
EXTRACTED: 7/12/99
ANALYZED: 7/19/99

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
m-Methylphenol	ND	0.1 mg/L
p-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
m,p,z,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
m,p,z,4,6-Tribromophenol	59	10 - 123
Fluorobiphenyl	61	43 - 116
2-Fluorophenol	38	21 - 100
Nitrobenzene-d5	63	35 - 114
Terphenyl-d14	109	33 - 141
Phenol-d5	26	10 - 94
ND - Not Detected		

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PROJECT/ CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION					
Project: CAU 461 TAMI		BN Org#: 2152		Send Report to: Jeff Smith		Fax: 5-7761		M/S: NTS 306		Sampling Site: Clean Verification Samples			
Charge No.: C7P05H13		ASL Prog.:		Phone: 5-7775		Fax: 5-7761		M/S: NTS 306		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.			
Project Manager: Steve Nacht				Turnaround: ☒ Standard - 30 days Non-rad, 60 Days Rad, Other: () Rush Preliminary by: Final by:									
Phone: 5-7234		Fax: 5-7761		M/S: NTS 306		Final report format: () Standard () NTS-WAC ☒ Other: Form I, LLP							
LAB USE ONLY				ANALYSES & METHOD				SAMPLE RECEIPT INFORMATION					
Rad SGD: C519 Non-Rad SGD: V653				TUP METALS 131I/6010/247D TUP SVOLs 131I/837D 8300 Nucleonics + Mitochondria 8300 145 ml glass lead upl 300 min/25 gamma scan 500 ml plastic lead upl				Are all sample containers received intact ☒ Yes () No Comments:					
Rad Packet: H1332 Non-Rad Packet: W1689								Do the labels agree with this form? ☒ Yes () No Comments:					
Client Services Representative:								Was a Material Clearance Tag submitted? ☒ Yes () No Comments:					
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:								COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)					
ITEM	ID / DESCRIPTION	SAMPLING		MATRIX	TUP METALS 131I/6010/247D	TUP SVOLs 131I/837D 8300	Nucleonics + Mitochondria 8300	145 ml glass lead upl	300 min/25 gamma scan	500 ml plastic lead upl	WEIGHT / gram		
		DATE	TIME										
0	TAML-VER-09	6/28/99	1508	Soil	1	1	1				773		
1	TAML-VER-10	6/28/99	1510	Soil	1	1	1				753		
2	TAML-VER-11	6/28/99	1535	Soil	1	1	1				714		
3	TAML-VER-12	6/29/99	0839	Soil	1	1	1				573		
4	TAML-VER-13	6/28/99	1642	Soil	1	1	1				732		
5	TAML-VER-14	6/28/99	1644	Soil	1	1	1				639		
6	TAML-VER-15	6/29/99	0846	Soil	1	1	1				603		
7	TAML-VER-16	6/29/99	0839	Soil	1	1	1				603		
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 Info.)			
[Signature]		6/29/99/1200		[Signature]		E. Burns		7/7/99 1300		BN Courier NTS 075303			
[Signature]		6/30/99/0750		[Signature]		Relinquished (Courier & Tracking Info.)		DATE / TIME		Received (1st tier Subcontractor Rep)			
						VIA Courier		7/7/99 1600		[Signature]			
						Relinquished (1st tier Subcontractor Rep)		DATE / TIME		Received (2nd tier Subcontractor Rep)			

PROJECT/ CLIENT INFORMATION					REPORT INFORMATION					SAMPLE INFORMATION				
Project: CAU 461 TAML		BN Org#: 2152			Send Report to: Jeff Smith		Phone: 5-7775			Fax: 5-7761		M/S: NTS 306		
Charge No.: C7PQ5H13		ASL Prog.:			Turnaround: ☒ Standard - 30 days Non-rad, 60 Days Rad, Other:		☐ Rush Preliminary by:			Final by:				
Project Manager: Steve Nault					Final report format: ☐ Standard ☐ NTS-WAC ☒ Other: Form I, CLP					Sampling Site: Clean Verification Samples 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.				
Phone: 5-7234		Fax: 5-7761		M/S: NTS 306										
LAB USE ONLY					ANALYSES & METHOD					SAMPLE RECEIPT INFORMATION				
Rad SGD: C519		Non-Rad SGD: V653			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>TULP Metals 1311/610/2470</p> <p>TULP SUDs 1311/8130 5000 g/L</p> <p>Nitrocarbons + Nitroaromatics 8330</p> <p>1311 g/L cool 4°C</p> <p>300 ml plastic cool 4°C</p> <p>500 ml plastic cool 4°C</p> </div> <div style="width: 45%;"> <p>Nitroaromatics + Nitroaromatics 8330</p> <p>1L amber cool 4°C</p> <p>TULP SUDs 8330</p> <p>1L amber cool 4°C</p> </div> </div>					Are all sample containers received intact ☒ Yes ☐ No				
Rad Packet: H1333		Non-Rad Packet: W1690								Comments:				
Client Services Representative:					Do the labels agree with this form? ☒ Yes ☐ No					Comments:				
Will these analyses be performed under a signed SOW? ☐ YES ☐ NO					Was a Material Clearance Tag submitted? ☒ Yes ☐ No					Comments:				
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: _____														
ITEM	ID / DESCRIPTION	SAMPLING DATE	TIME	MATRIX						COMMENTS (Preservative, size/volume, MS/MSD, special analysis, rad matrix code, count time, etc.)				
17	0 TAML-VER-17	6/29/99	0844	Soil	1	1	1					701	Based upon process knowledge all	
18	1 TAML-VER-18	6/28/99	1638	Soil	1	1	1					673	Samples are under 70 Bq/gm and	
19	2 TAML-VER-19	6/29/99	1637	Soil	1	1	1					686	therefore not regulated under	
20	3 TAML-VER-20	6/29/99	0853	Soil	1	1	1					670	DOT Regulations!	
21	4 TAML-VER-21	6/29/99	0853	Soil	1	1	1					577		
5														
6	TAML-RBI	6/29/99	0730	Water				2	1				Part of Equipment Rinse Blank	
7														
8													TAML-RBI was not received	
9													7/7/99	
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 Info.)				
<i>[Signature]</i>		6/29/99/1200		<i>[Signature]</i>		<i>E Burns</i>		7/7/99 1300		BN Courier NTS 075303				
<i>[Signature]</i>		6/29/99/075L		<i>Ch Castaneda</i>		Relinquished (Courier & Tracking Info.)		DATE / TIME		Received (1st tier Subcontractor Rep)				
						<i>VIA Courier</i>		7/7/99 1610		<i>[Signature]</i>				
						Relinquished (1st tier Subcontractor Rep)		DATE / TIME		Received (2nd tier Subcontractor Rep)				

PROJECT/CLIENT INFORMATION				REPORT INFORMATION				SAMPLE INFORMATION			
Project: (AY 461) TAML		BN Org#: 2152		Send Report to: Jeff Smith		M/S: NTS 306		Sampling Site: Clean Verification Sample			
Charge No.: (7PQSH13)		ASL Prog.:		Phone: 5-7775		Fax: 5-7761		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.			
Project Manager: Steve Nacht		M/S: NTS 306		Turnaround: () Rush Preliminary by: Final by:		Final report format: () Standard () NTS-WAC () Other: Form 2, ULP		Are all sample containers received intact? ☒ Yes () No			
Phone: 5-7234		Fax: 5-7761		RAD USE ONLY		RAD USE ONLY		Comments:			
Rad SGD: 0519		Non-Rad SGD: V653		Rad Packet: H1334		Non-Rad Packet: W6691		Do the labels agree with this form? ☒ Yes () No			
Client Services Representative: H1335 - Weber								Comments:			
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 _____ Date: _____											
CSR initials indicating review and approval: _____											
ID / DESCRIPTION		SAMPLING DATE		MATRIX		ANALYSES & METHOD					
0	TAML - VER - 22	6/28/94	1604	Soil	TUP Metals 1311/6010/1440						
1	TAML - VER - 23	6/28/94	1616	Soil	TUP Metals 1311/6010/1440						
2	TAML - VER - 24	6/28/94	1616	Soil	TUP Metals 1311/6010/1440						
3	TAML - VER - 25	6/28/94	1618	Soil	TUP Metals 1311/6010/1440						
4	TAML - VER - 26	6/28/94	1627	Soil	TUP Metals 1311/6010/1440						
5	TAML - VER - 27	6/28/94	1627	Soil	TUP Metals 1311/6010/1440						
6	TAML - VER - 28	6/28/94	1646	Soil	TUP Metals 1311/6010/1440						
7											
8	TAML - RB1	6/29/94	0730	Water							
9											
Complete for samples shipped to an OFF-SITE Subcontract Laboratory											
Sampled/Relinquished (Signature/Organization)				DATE / TIME				Received (Courier & Tracking Info.)			
[Signature]				6/29/94 1000				BN Courier NTS 075203			
[Signature]				6/30/94 0830				Received (1st tier Subcontractor Rep)			
[Signature]								Received (2nd tier Subcontractor Rep)			

COMMENTS: This data is not defensible since the TCLP extraction was not done correctly. The pH of Extraction fluid 1 was measured at 4.63. The limit is 4.88 to 4.98; The measurement of the pH after the addition of 3.5 ml of 1 N HCL is questionable (very low). There is no range for the room temperature; there is no time noted for the Extraction Off. There is no initial and date for the cross out of the temperature.

Marsha C. C. C.
Reviewer Signature:

August 31, 1999 (9:15am)
Date:

COVER PAGE

Date: 9-AUG-99

RADIOMETRIC DATA ANALYSIS PACKAGE*BECHTEL NEVADA Analytical Services*

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Sample Numbers

<u>DOE No.</u>	<u>Lab ID No.</u>	<u>DOE No.</u>	<u>Lab ID No.</u>
TAML-RB1	H1335-0-75000	TAML-VER-22	H1334-0-75053
TAML-VER-11	H1332-2-75042	TAML-VER-01	H1331-0-75030
TAML-VER-12	H1332-3-75043	TAML-VER-02	H1331-1-75031
TAML-VER-13	H1332-4-75044	TAML-VER-03	H1331-2-75032
TAML-VER-14	H1332-5-75045	TAML-VER-04	H1331-3-75035
TAML-VER-15	H1332-6-75046	TAML-VER-05	H1331-4-75036
TAML-VER-16	H1332-7-75047	TAML-VER-06	H1331-5-75037
TAML-VER-17	H1333-0-75048	TAML-VER-07	H1331-6-75038
TAML-VER-18	H1333-1-75049	TAML-VER-08	H1331-7-75039
TAML-VER-19	H1333-2-75050	TAML-VER-09	H1332-0-75040
TAML-VER-20	H1333-3-75051	TAML-VER-10	H1332-1-75041
TAML-VER-23	H1334-1-75054	TAML-VER-26	H1334-4-75057
TAML-VER-24	H1334-2-75055	TAML-VER-27	H1334-5-75058
TAML-VER-25	H1334-3-75056	TAML-VER-28	H1334-6-75059
TAML-VER-21	H1333-4-75052		

Comments: Data generated from the 300 minute gamma spectroscopy scans of samples submitted to the laboratory on June 30, 1999.

Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature:

(Signature)

(Name)

Larry Hatcher

(Title)

ASL Manager

(Date)

8/9/99

I. GENERAL INFORMATION

Sample Delivery Group: V653 Client: Bechtel Nevada
 Laboratory: NEL Reviewed by: Marsha C. Webb Date: August 31, 1999
 Requested Analysis: RCRA Metals (TCLP) Methods: Extraction 1311 Analysis 6010
 Matrix: Soil

II. COMPLETENESS

- A. Were all deliverables submitted?
 B. Are forms properly completed and legible?
 C. Were all requested analyses performed by the laboratory?
 D. Were the requested analytical methods used for analysis?

Criteria Met		
Yes	No	NA
<u>X</u>		
<u>X</u>		
<u>X</u>		
<u>X</u>		

III. DATA ASSESSMENT SUMMARY

- () A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
~~X~~ B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
~~X~~ C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

TCLP extraction fluid #1 had a pH of 4.63. The limit is 4.88 to 4.98. Potentially high biased. IR

IV. HOLDING TIME COMPLIANCE

	Date	# Days	Acceptable
A. Sampled	<u>6/28/99</u>	<u>NA</u>	<u>0 - 2</u>
B. ASL Received:	<u>6/30/99</u>	<u>2</u>	<u>1</u>
C. Contract Lab Received:	<u>7/7/99</u>	<u>9</u>	<u>7</u>
D. Latest Extraction: TCLP	<u>7/8/99</u>	<u>10</u>	<u>14</u>
E. Latest Date Analyzed:	<u>7/12/99</u>	<u>4</u>	<u>180 (Others)</u>

Were holding time criteria met? (X) Yes () No

V. INSTRUMENT & SAMPLE QA/QC COMPLIANCE

A. INSTRUMENT QUALITY CONTROL

1. Calibrations Blank: Within 3X of the IDL
Initial: Minimum of Cal Blank and 1 Standard
Verification: ICV, CCVs, check standard within $\pm 10\%$
 RSD < 5% for ≥ 2 replicate integrations
 within $\pm 20\%$ true value

Criteria met		
Yes	No	NA
<u>X</u>		
<u>X</u>		
<u>X</u>		
<u>X</u>		
<u>X</u>		

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Blanks: Were target compounds detected in field or laboratory blanks?
 If so, were they detected:
 a. at levels $\geq$ CRDL?
 b. in the samples at < 5 times the blank value?
 2. Lab Control Sample: Were recoveries within acceptable limits?
 3. Samples
 a. Were target compounds detected in the samples?
 b. Were concentrations calculated correctly?
 4. As appropriate, were the following within quality control limits:
 a. MS/MSD recoveries and RPDs
 b. Lab and/or field duplicate RPDs
 c. Serial dilution within $\pm 10\%$ for undiluted concentrations $\geq 10X$ the IDL

	<u>X</u>	
		<u>X</u>
		<u>X</u>
<u>X</u>		
<u>X</u>		
<u>X</u>		
<u>X</u>		
		<u>X</u>
		<u>X</u>

The serial dilution can not be evaluated since the IDLs are not provided.

COMMENTS: No difficulties were encountered during validation of this data

FYI The laboratory should be reporting the surrogate recovery on each Reporting form.

Marilyn C. Cobb
Reviewer Signature:

August 31, 1999 (9:06am)
Date:

I. GENERAL INFORMATION

Sample Delivery Group: V653 Client: Bechtel Nevada
 Laboratory: NEL Reviewed by: Marsha C. Webb Date: 8/26/99
 Requested Analysis: Hg Methods: Extraction 1311 Analysis 7470
 Matrix: Soil

II. COMPLETENESS

- A. Were all deliverables submitted?
 B. Are forms properly completed and legible?
 C. Were all requested analyses performed by the laboratory?
 D. Were the requested analytical methods used for analysis?

Criteria Met		
Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

III. DATA ASSESSMENT SUMMARY

- () A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
 (X) B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
 (X) C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

TCLP extraction fluid #1 had a pH of 4.63. The limit is 4.88 to 4.98 - Potentially high biased. 78

IV. HOLDING TIME COMPLIANCE

	Date	# Days	Acceptable
A. Sampled	<u>6/28/99</u>	<u>NA</u>	<u>0 - 2</u>
B. ASL Received:	<u>6/30/99</u>	<u>2</u>	<u>1</u>
C. Contract Lab Received:	<u>7/7/99</u>	<u>9</u>	<u>7</u>
D. Latest Extraction: TCLP	<u>7/8/99</u>	<u>10</u>	<u>14</u>
E. Latest Date Analyzed:	<u>7/11/99</u>	<u>3</u>	<u>28</u>
Were holding time criteria met?	(X) Yes () No		

V. INSTRUMENT & SAMPLE QA/QC COMPLIANCE

A. INSTRUMENT QUALITY CONTROL

1. Calibrations Blank: Within 3X of the IDL
Initial: Cal Blank and 5 Standards
 $R^2 > 0.995$
Verification: ICV within $\pm 10\%$
 CCV every 10 samples within $\pm 20\%$

Criteria met		
Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Prep blank: Were target compounds detected in field or laboratory blanks?
 2. Lab Control Sample: Were recoveries within acceptable limits? (80-120%)
 3. Samples
 a. Were target compounds detected in the samples?
 b. Were concentrations calculated correctly?
 4. As appropriate, were the following within quality control limits:
 a. MS/MSD recoveries (75-125 %)
 b. Lab and/or field duplicate RPDs (<20%)
 c. Serial dilution within $\pm 10\%$ for undiluted concentrations $\geq 10X$ the IDL

<u> </u>	<u>X</u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>

COMMENTS: Cr was detected in L9907046-01 at 0.071; the duplicate was 0.017; RPD was not met. Both results are
> than RL. -03 was done at 16:20; CB at 16:24; and -04 at 16:27; A CCV was not performed;
11 samples were analyzed before the next CB and CCV were performed. Procedure was not followed.

This data is not defensible since the TCLP extraction was not done correctly. The pH of Extraction fluid #1 was measured at 4.63. The limit is 4.88 to 4.98. The measurement of the pH after the addition of 3.5 ml of 1 N HCl is questionable (too low). There is no range for the temperature; There is no time noted for the Extraction Off; There are no initials and date for the crossout of the temperature.

Marsh C. Webb

Reviewer Signature:

August 31, 1999 (9:43am)

Date:

I. GENERAL INFORMATION

Sample Delivery Group: V653 Client: Bechtel Nevada
Laboratory: NEL Reviewed by: Marsha C. Webb Date: 8/31/99
Requested Analysis: Nitroaromatics Methods: Extraction NA Analysis 8330
Matrix: Soils

II. COMPLETENESS

- A. Were all deliverables submitted?
B. Are forms properly completed and legible?
C. Were all requested analyses performed by the laboratory?
D. Were the requested analytical methods used for analysis?

Criteria Met		
Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

III. DATA ASSESSMENT SUMMARY

- (X) A. Field and QA/QC sample data have been generated in accordance with method requirements and within quality control limits.
0 B. QA/QC problems were encountered during analysis of the samples. However, the data are considered acceptable.
0 C. Significant QA/QC problems were encountered during analysis of the samples. Data for the following samples may be rejected.

IV. HOLDING TIME COMPLIANCE

	Date	# Days	Acceptable
A. Sampled	<u>6/28/99</u>	<u>NA</u>	<u>0 - 2</u>
B. ASL Received:	<u>6/30/99</u>	<u>2</u>	<u>1</u>
C. Contract Lab Received:	<u>7/7/99</u>	<u>9</u>	<u>7</u>
D. Latest Extraction:	<u>7/8/99</u>	<u>10</u>	<u>14</u>
E. Latest Date Analyzed:	<u>7/9/99</u>	<u>1</u>	<u>40</u>

Were holding time criteria met? (X) Yes 0 No

V. INSTRUMENT & SAMPLE QA/QC COMPLIANCE**A. INSTRUMENT QUALITY CONTROL**

1. Calibrations Blank: Within 3X of the IDL (< reporting limit)
Initial: 3 Standards minimum
Verification: $R^2 > 0.995$ or %RSD met
ICV within $\pm 20\%$
CCV every 10 samples within $\pm 20\%$

Criteria met		
Yes	No	NA
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u> </u>	<u> </u>	<u>X</u>
<u>X</u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>

B. SAMPLE ASSOCIATED QUALITY CONTROL

1. Prep blank: Were target compounds detected in field or laboratory blanks?
2. Lab Control Sample: Were recoveries within acceptable limits? ($\pm 20\%$)
3. Samples
a. Were target compounds detected in the samples?
b. Were concentrations calculated correctly?
4. As appropriate, were the following within quality control limits:
a. MS/MSD recoveries (70-130 %) MS/MSD RPD (20%)
b. Lab and/or field duplicate RPDs (<20%)
c. Surrogate recoveries within quality control limits

<u> </u>	<u>X</u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u>X</u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u>X</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u>X</u>
<u>X</u>	<u> </u>	<u> </u>

V. INSTRUMENT & SAMPLE QA/QC CRITERIA

6. As appropriate, were the following within quality control limits:

- a. MS/MSD recoveries and RPDs
- b. Lab and/or field duplicate RPDs

Criteria met**Yes****No****NA**XX

I* = indeterminate

COMMENTS: Samples were run on 7/16-7/20; no tune for each day of analysis.On 7/19, the 50 ng std was run at 7:02 am; the last sample was run at 7:50 pm--outside the 12 hour tune (sample -21)50 ng stds were done on each day, but the continuing calibration summary was not included in the package.

This data is not defensible since the TCLP extraction was not done correctly. The pH of Extraction fluid #1 was measured at 4.63. The limit is 4.88 to 4.98. The measurement of the pH after the addition of 3.5 ml of 1 N HCl is questionable (too low). There is no range for the temperature; There is no time noted for the Extraction Off; There are no initials and date for the crossout of the temperature.

Marsha C. Webb

Reviewer Signature:

August 31, 1999 (12:04pm)

Date:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Do# ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-RB1	REG	No Nucl Det	0.00E+00	0.0E+00	pCi/kg	07-01-99	WATER	500.00 ml	E10602.PC	08-01
TAML-VER-11	REG	K 40	2.79E+04	2.6E+03	pCi/kg	07-01-99	SOIL	714.00 gm	E10602.PC	06-01
TAML-VER-11	REG	RA226	1.84E+03	2.0E+02	pCi/kg	07-01-99	SOIL	714.00 gm	E10602.PC	06-01
TAML-VER-11	REG	TH228	2.11E+03	2.1E+02	pCi/kg	07-01-99	SOIL	714.00 gm	E10602.PC	06-01
TAML-VER-11	REG	TH232	1.88E+03	2.4E+02	pCi/kg	07-01-99	SOIL	714.00 gm	E10602.PC	06-01
TAML-VER-11	REG	U 235	2.96E+02	1.5E+02	pCi/kg	07-01-99	SOIL	714.00 gm	E10602.PC	06-01
TAML-VER-11	REG	U 238	7.81E+03	3.3E+03	pCi/kg	07-01-99	SOIL	714.00 gm	E10602.PC	06-01
TAML-VER-12	REG	K 40	2.70E+04	2.5E+03	pCi/kg	07-02-99	SOIL	573.00 gm	E10602.PC	06-01
TAML-VER-12	REG	RA226	1.06E+03	1.3E+02	pCi/kg	07-02-99	SOIL	573.00 gm	E10602.PC	06-01
TAML-VER-12	REG	TH228	2.00E+03	2.0E+02	pCi/kg	07-02-99	SOIL	573.00 gm	E10602.PC	06-01
TAML-VER-12	REG	TH232	1.74E+03	2.3E+02	pCi/kg	07-02-99	SOIL	573.00 gm	E10602.PC	06-01
TAML-VER-12	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-02-99	SOIL	573.00 gm	E10602.PC	06-01
TAML-VER-13	REG	CS137	5.25E+01	2.2E+01	pCi/kg	07-02-99	SOIL	732.00 gm	E10602.PC	06-01
TAML-VER-13	REG	K 40	2.96E+04	2.7E+03	pCi/kg	07-02-99	SOIL	732.00 gm	E10602.PC	06-01
TAML-VER-13	REG	RA226	1.20E+03	1.4E+02	pCi/kg	07-02-99	SOIL	732.00 gm	E10602.PC	06-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Doee ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-13	REG	TH228	2.14E+03	2.2E+02	pCi/kg	07-02-99	SOIL	732.00 gm	E10602.PC	06-01
TAML-VER-13	REG	TH232	1.93E+03	2.5E+02	pCi/kg	07-02-99	SOIL	732.00 gm	E10602.PC	06-01
TAML-VER-13	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-02-99	SOIL	732.00 gm	E10602.PC	06-01
TAML-VER-14	REG	CS137	5.51E+01	2.2E+01	pCi/kg	07-02-99	SOIL	639.00 gm	E10602.PC	06-01
TAML-VER-14	REG	K 40	2.73E+04	2.5E+03	pCi/kg	07-02-99	SOIL	639.00 gm	E10602.PC	06-01
TAML-VER-14	REG	RA226	1.08E+03	1.3E+02	pCi/kg	07-02-99	SOIL	639.00 gm	E10602.PC	06-01
TAML-VER-14	REG	TH228	1.94E+03	2.0E+02	pCi/kg	07-02-99	SOIL	639.00 gm	E10602.PC	06-01
TAML-VER-14	REG	TH232	1.78E+03	2.3E+02	pCi/kg	07-02-99	SOIL	639.00 gm	E10602.PC	06-01
TAML-VER-14	REG	U 238	1.12E+04	3.7E+03	pCi/kg	07-02-99	SOIL	639.00 gm	E10602.PC	06-01
TAML-VER-15	REG	CS137	7.74E+01	2.5E+01	pCi/kg	07-02-99	SOIL	603.00 gm	E10602.PC	06-01
TAML-VER-15	REG	K 40	2.62E+04	2.5E+03	pCi/kg	07-02-99	SOIL	603.00 gm	E10602.PC	06-01
TAML-VER-15	REG	RA226	9.73E+02	1.3E+02	pCi/kg	07-02-99	SOIL	603.00 gm	E10602.PC	06-01
TAML-VER-15	REG	TH228	1.92E+03	2.0E+02	pCi/kg	07-02-99	SOIL	603.00 gm	E10602.PC	06-01
TAML-VER-15	REG	TH232	1.67E+03	2.2E+02	pCi/kg	07-02-99	SOIL	603.00 gm	E10602.PC	06-01
TAML-VER-15	REG	U 238	6.54E+03	3.0E+03	pCi/kg	07-02-99	SOIL	603.00 gm	E10602.PC	06-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

DoE ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-16	REG	CS137	5.17E+01	2.2E+01	pCi/kg	07-02-99	SOIL	747.00 gm	E10602.PC	06-01
TAML-VER-16	REG	K 40	2.86E+04	2.6E+03	pCi/kg	07-02-99	SOIL	747.00 gm	E10602.PC	06-01
TAML-VER-16	REG	RA226	1.14E+03	1.4E+02	pCi/kg	07-02-99	SOIL	747.00 gm	E10602.PC	06-01
TAML-VER-16	REG	TH228	2.01E+03	2.0E+02	pCi/kg	07-02-99	SOIL	747.00 gm	E10602.PC	06-01
TAML-VER-16	REG	TH232	1.83E+03	2.4E+02	pCi/kg	07-02-99	SOIL	747.00 gm	E10602.PC	06-01
TAML-VER-16	REG	U 235	5.40E+01	1.4E+02	pCi/kg	07-02-99	SOIL	747.00 gm	E10602.PC	06-01
TAML-VER-16	REG	U 238	7.27E+03	3.2E+03	pCi/kg	07-02-99	SOIL	747.00 gm	E10602.PC	06-01
TAML-VER-17	REG	CS137	7.92E+01	2.5E+01	pCi/kg	07-03-99	SOIL	701.00 gm	E10602.PC	06-01
TAML-VER-17	REG	K 40	2.78E+04	2.6E+03	pCi/kg	07-03-99	SOIL	701.00 gm	E10602.PC	06-01
TAML-VER-17	REG	RA226	1.10E+03	1.4E+02	pCi/kg	07-03-99	SOIL	701.00 gm	E10602.PC	06-01
TAML-VER-17	REG	TH228	2.04E+03	2.1E+02	pCi/kg	07-03-99	SOIL	701.00 gm	E10602.PC	06-01
TAML-VER-17	REG	TH232	1.91E+03	2.4E+02	pCi/kg	07-03-99	SOIL	701.00 gm	E10602.PC	06-01
TAML-VER-17	REG	U 238	1.17E+04	3.4E+03	pCi/kg	07-03-99	SOIL	701.00 gm	E10602.PC	06-01
TAML-VER-18	REG	CS137	9.06E+01	2.6E+01	pCi/kg	07-03-99	SOIL	673.00 gm	E10602.PC	06-01
TAML-VER-18	REG	K 40	3.07E+04	2.8E+03	pCi/kg	07-03-99	SOIL	673.00 gm	E10602.PC	06-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Doa ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-18	REG	RA226	1.26E+03	1.5E+02	pCi/kg	07-03-99	SOIL	673.00 gm	E10602.PC	06-01
TAML-VER-18	REG	TH228	2.09E+03	2.1E+02	pCi/kg	07-03-99	SOIL	673.00 gm	E10602.PC	06-01
TAML-VER-18	REG	TH232	1.97E+03	2.5E+02	pCi/kg	07-03-99	SOIL	673.00 gm	E10602.PC	06-01
TAML-VER-18	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-03-99	SOIL	673.00 gm	E10602.PC	06-01
TAML-VER-19	REG	K 40	2.84E+04	2.6E+03	pCi/kg	07-03-99	SOIL	686.00 gm	E10602.PC	06-01
TAML-VER-19	REG	RA226	1.12E+03	1.4E+02	pCi/kg	07-03-99	SOIL	686.00 gm	E10602.PC	06-01
TAML-VER-19	REG	TH228	2.08E+03	2.1E+02	pCi/kg	07-03-99	SOIL	686.00 gm	E10602.PC	06-01
TAML-VER-19	REG	TH232	1.93E+03	2.5E+02	pCi/kg	07-03-99	SOIL	686.00 gm	E10602.PC	06-01
TAML-VER-19	REG	U 238	3.95E+03	2.9E+03	pCi/kg	07-03-99	SOIL	686.00 gm	E10602.PC	06-01
TAML-VER-20	REG	K 40	2.50E+04	2.3E+03	pCi/kg	07-03-99	SOIL	670.00 gm	E10602.PC	06-01
TAML-VER-20	REG	RA226	1.04E+03	1.3E+02	pCi/kg	07-03-99	SOIL	670.00 gm	E10602.PC	06-01
TAML-VER-20	REG	TH228	1.84E+03	1.9E+02	pCi/kg	07-03-99	SOIL	670.00 gm	E10602.PC	06-01
TAML-VER-20	REG	TH232	1.72E+03	2.3E+02	pCi/kg	07-03-99	SOIL	670.00 gm	E10602.PC	06-01
TAML-VER-20	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-03-99	SOIL	670.00 gm	E10602.PC	06-01
TAML-VER-23	REG	CS137	3.66E+02	5.3E+01	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Doe ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-23	REG	K 40	3.22E+04	2.9E+03	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-23	REG	RA226	1.37E+03	1.6E+02	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-23	REG	TH228	2.18E+03	2.2E+02	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-23	REG	TH232	2.04E+03	2.6E+02	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-23	REG	U 238	4.54E+03	3.1E+03	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-24	REG	BE7	6.34E-01	3.0E-01	pCi/kg	07-06-99	SOIL	567.00 gm	E10602.PC	06-01
TAML-VER-24	REG	CS137	3.63E+01	2.3E+01	pCi/kg	07-06-99	SOIL	567.00 gm	E10602.PC	06-01
TAML-VER-24	REG	K 40	2.99E+04	2.8E+03	pCi/kg	07-06-99	SOIL	567.00 gm	E10602.PC	06-01
TAML-VER-24	REG	RA226	1.20E+03	1.5E+02	pCi/kg	07-06-99	SOIL	567.00 gm	E10602.PC	06-01
TAML-VER-24	REG	TH228	2.11E+03	2.1E+02	pCi/kg	07-06-99	SOIL	567.00 gm	E10602.PC	06-01
TAML-VER-24	REG	TH232	1.84E+03	2.4E+02	pCi/kg	07-06-99	SOIL	567.00 gm	E10602.PC	06-01
TAML-VER-24	REG	U 238	7.97E+03	3.3E+03	pCi/kg	07-06-99	SOIL	567.00 gm	E10602.PC	06-01
TAML-VER-25	REG	CS137	9.97E+01	2.7E+01	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-25	REG	K 40	3.14E+04	2.9E+03	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-25	REG	RA226	1.29E+03	1.5E+02	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Doa ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-25	REG	TH228	2.12E+03	2.2E+02	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-25	REG	TH232	2.08E+03	2.6E+02	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-25	REG	U 238	8.64E+03	3.5E+03	pCi/kg	07-06-99	SOIL	558.00 gm	E10602.PC	06-01
TAML-VER-21	REG	K 40	9.15E+03	8.8E+02	pCi/kg	07-01-99	SOIL	577.00 gm	E10602.PC	07-01
TAML-VER-21	REG	RA226	1.07E+03	1.4E+02	pCi/kg	07-01-99	SOIL	577.00 gm	E10602.PC	07-01
TAML-VER-21	REG	TH228	2.04E+03	2.1E+02	pCi/kg	07-01-99	SOIL	577.00 gm	E10602.PC	07-01
TAML-VER-21	REG	TH232	1.79E+03	2.4E+02	pCi/kg	07-01-99	SOIL	577.00 gm	E10602.PC	07-01
TAML-VER-21	REG	U 238	4.73E+03	3.4E+03	pCi/kg	07-01-99	SOIL	577.00 gm	E10602.PC	07-01
TAML-VER-22	REG	K 40	3.17E+04	3.0E+03	pCi/kg	07-06-99	SOIL	745.00 gm	E10602.PC	07-01
TAML-VER-22	REG	RA226	2.44E+03	2.6E+02	pCi/kg	07-06-99	SOIL	745.00 gm	E10602.PC	07-01
TAML-VER-22	REG	TH228	2.44E+03	2.5E+02	pCi/kg	07-06-99	SOIL	745.00 gm	E10602.PC	07-01
TAML-VER-22	REG	TH232	2.07E+03	2.7E+02	pCi/kg	07-06-99	SOIL	745.00 gm	E10602.PC	07-01
TAML-VER-22	REG	U 238	5.55E+03	3.7E+03	pCi/kg	07-06-99	SOIL	745.00 gm	E10602.PC	07-01
TAML-VER-01	REG	K 40	3.21E+04	3.1E+03	pCi/kg	07-01-99	SOIL	774.00 gm	E10602.PC	05-01
TAML-VER-01	REG	RA226	2.22E+03	2.4E+02	pCi/kg	07-01-99	SOIL	774.00 gm	E10602.PC	05-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

***** Doe ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-01	REG	TH228	2.76E+03	2.7E+02	pCi/kg	07-01-99	SOIL	774.00 gm	E10602.PC	05-01
TAML-VER-01	REG	TH232	2.24E+03	3.1E+02	pCi/kg	07-01-99	SOIL	774.00 gm	E10602.PC	05-01
TAML-VER-01	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-01-99	SOIL	774.00 gm	E10602.PC	05-01
TAML-VER-02	REG	K 40	3.00E+04	2.9E+03	pCi/kg	07-02-99	SOIL	678.00 gm	E10602.PC	05-01
TAML-VER-02	REG	RA226	1.80E+03	2.1E+02	pCi/kg	07-02-99	SOIL	678.00 gm	E10602.PC	05-01
TAML-VER-02	REG	TH228	2.36E+03	2.4E+02	pCi/kg	07-02-99	SOIL	678.00 gm	E10602.PC	05-01
TAML-VER-02	REG	TH232	1.90E+03	2.7E+02	pCi/kg	07-02-99	SOIL	678.00 gm	E10602.PC	05-01
TAML-VER-02	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-02-99	SOIL	678.00 gm	E10602.PC	05-01
TAML-VER-03	REG	K 40	3.15E+04	3.1E+03	pCi/kg	07-02-99	SOIL	770.00 gm	E10602.PC	05-01
TAML-VER-03	REG	RA226	1.61E+03	1.9E+02	pCi/kg	07-02-99	SOIL	770.00 gm	E10602.PC	05-01
TAML-VER-03	REG	TH228	2.44E+03	2.5E+02	pCi/kg	07-02-99	SOIL	770.00 gm	E10602.PC	05-01
TAML-VER-03	REG	TH232	2.05E+03	2.9E+02	pCi/kg	07-02-99	SOIL	770.00 gm	E10602.PC	05-01
TAML-VER-03	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-02-99	SOIL	770.00 gm	E10602.PC	05-01
TAML-VER-04	REG	K 40	3.07E+04	3.0E+03	pCi/kg	07-02-99	SOIL	751.00 gm	E10602.PC	05-01
TAML-VER-04	REG	RA226	1.87E+03	2.1E+02	pCi/kg	07-02-99	SOIL	751.00 gm	E10602.PC	05-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

***** Doe ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-04	REG	TH228	2.43E+03	2.5E+02	pCi/kg	07-02-99	SOIL	751.00 gm	E10602.PC	05-01
TAML-VER-04	REG	TH232	1.96E+03	2.8E+02	pCi/kg	07-02-99	SOIL	751.00 gm	E10602.PC	05-01
TAML-VER-04	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-02-99	SOIL	751.00 gm	E10602.PC	05-01
TAML-VER-05	REG	K 40	2.94E+04	2.9E+03	pCi/kg	07-02-99	SOIL	665.00 gm	E10602.PC	05-01
TAML-VER-05	REG	RA226	1.55E+03	1.9E+02	pCi/kg	07-02-99	SOIL	665.00 gm	E10602.PC	05-01
TAML-VER-05	REG	TH228	2.32E+03	2.4E+02	pCi/kg	07-02-99	SOIL	665.00 gm	E10602.PC	05-01
TAML-VER-05	REG	TH232	1.93E+03	2.7E+02	pCi/kg	07-02-99	SOIL	665.00 gm	E10602.PC	05-01
TAML-VER-05	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-02-99	SOIL	665.00 gm	E10602.PC	05-01
TAML-VER-06	REG	K 40	2.65E+04	2.6E+03	pCi/kg	07-02-99	SOIL	624.00 gm	E10602.PC	05-01
TAML-VER-06	REG	RA226	1.15E+03	1.5E+02	pCi/kg	07-02-99	SOIL	624.00 gm	E10602.PC	05-01
TAML-VER-06	REG	TH228	2.18E+03	2.3E+02	pCi/kg	07-02-99	SOIL	624.00 gm	E10602.PC	05-01
TAML-VER-06	REG	TH232	1.77E+03	2.6E+02	pCi/kg	07-02-99	SOIL	624.00 gm	E10602.PC	05-01
TAML-VER-06	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-02-99	SOIL	624.00 gm	E10602.PC	05-01
TAML-VER-07	REG	K 40	3.31E+04	3.2E+03	pCi/kg	07-03-99	SOIL	759.00 gm	E10602.PC	05-01
TAML-VER-07	REG	RA226	1.97E+03	2.2E+02	pCi/kg	07-03-99	SOIL	759.00 gm	E10602.PC	05-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

..... Doe Sample No.	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-07	REG	TH228	2.65E+03	2.7E+02	pCi/kg	07-03-99	SOIL	759.00 gm	E10602.PC	05-01
TAML-VER-07	REG	TH232	2.20E+03	3.0E+02	pCi/kg	07-03-99	SOIL	759.00 gm	E10602.PC	05-01
TAML-VER-07	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-03-99	SOIL	759.00 gm	E10602.PC	05-01
TAML-VER-08	REG	K 40	2.99E+04	2.9E+03	pCi/kg	07-03-99	SOIL	621.00 gm	E10602.PC	05-01
TAML-VER-08	REG	RA226	3.56E+03	3.6E+02	pCi/kg	07-03-99	SOIL	621.00 gm	E10602.PC	05-01
TAML-VER-08	REG	TH228	2.25E+03	2.4E+02	pCi/kg	07-03-99	SOIL	621.00 gm	E10602.PC	05-01
TAML-VER-08	REG	TH232	1.90E+03	2.8E+02	pCi/kg	07-03-99	SOIL	621.00 gm	E10602.PC	05-01
TAML-VER-08	REG	U 235	6.43E+02	2.5E+02	pCi/kg	07-03-99	SOIL	621.00 gm	E10602.PC	05-01
TAML-VER-08	REG	U 238	1.91E+04	6.0E+03	pCi/kg	07-03-99	SOIL	621.00 gm	E10602.PC	05-01
TAML-VER-09	REG	K 40	3.32E+04	3.2E+03	pCi/kg	07-03-99	SOIL	773.00 gm	E10602.PC	05-01
TAML-VER-09	REG	RA226	2.32E+03	2.5E+02	pCi/kg	07-03-99	SOIL	773.00 gm	E10602.PC	05-01
TAML-VER-09	REG	TH228	2.70E+03	2.7E+02	pCi/kg	07-03-99	SOIL	773.00 gm	E10602.PC	05-01
TAML-VER-09	REG	TH232	2.12E+03	3.0E+02	pCi/kg	07-03-99	SOIL	773.00 gm	E10602.PC	05-01
TAML-VER-09	REG	U 238	1.34E+04	4.7E+03	pCi/kg	07-03-99	SOIL	773.00 gm	E10602.PC	05-01
TAML-VER-10	REG	K 40	3.27E+04	3.2E+03	pCi/kg	07-03-99	SOIL	753.00 gm	E10602.PC	05-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Doe ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-10	REG	RA226	2.42E+03	2.6E+02	pCi/kg	07-03-99	SOIL	753.00 gm	E10602.PC	05-01
TAML-VER-10	REG	TH228	2.83E+03	2.8E+02	pCi/kg	07-03-99	SOIL	753.00 gm	E10602.PC	05-01
TAML-VER-10	REG	TH232	2.22E+03	3.1E+02	pCi/kg	07-03-99	SOIL	753.00 gm	E10602.PC	05-01
TAML-VER-10	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-03-99	SOIL	753.00 gm	E10602.PC	05-01
TAML-VER-26	REG	K 40	2.45E+04	2.5E+03	pCi/kg	07-06-99	SOIL	699.00 gm	E10602.PC	05-01
TAML-VER-26	REG	RA226	1.09E+03	1.4E+02	pCi/kg	07-06-99	SOIL	699.00 gm	E10602.PC	05-01
TAML-VER-26	REG	TH228	2.02E+03	2.1E+02	pCi/kg	07-06-99	SOIL	699.00 gm	E10602.PC	05-01
TAML-VER-26	REG	TH232	1.59E+03	2.4E+02	pCi/kg	07-06-99	SOIL	699.00 gm	E10602.PC	05-01
TAML-VER-26	REG	U 235	1.16E+02	1.4E+02	pCi/kg	07-06-99	SOIL	699.00 gm	E10602.PC	05-01
TAML-VER-26	REG	U 238	7.82E+03	3.9E+03	pCi/kg	07-06-99	SOIL	699.00 gm	E10602.PC	05-01
TAML-VER-27	REG	K 40	2.37E+04	2.4E+03	pCi/kg	07-06-99	SOIL	669.00 gm	E10602.PC	05-01
TAML-VER-27	REG	RA226	1.32E+03	1.6E+02	pCi/kg	07-06-99	SOIL	669.00 gm	E10602.PC	05-01
TAML-VER-27	REG	TH228	2.10E+03	2.2E+02	pCi/kg	07-06-99	SOIL	669.00 gm	E10602.PC	05-01
TAML-VER-27	REG	TH232	1.73E+03	2.5E+02	pCi/kg	07-06-99	SOIL	669.00 gm	E10602.PC	05-01
TAML-VER-27	REG	U 235	5.35E+02	1.8E+02	pCi/kg	07-06-99	SOIL	669.00 gm	E10602.PC	05-01

Comments:

RADIOMETRIC ANALYSIS RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Doe ***** Sample No. *****	Sample Type	Radio- nuclide	Result	Uncer- tainty	Result Units	Analysis Date	Sample Matrix	Sample Size	Method No.	Instrument ID
TAML-VER-27	REG	U 238	2.38E+04	5.7E+03	pCi/kg	07-06-99	SOIL	669.00 gm	E10602.PC	05-01
TAML-VER-28	REG	K 40	2.95E+04	2.9E+03	pCi/kg	07-06-99	SOIL	660.00 gm	E10602.PC	05-01
TAML-VER-28	REG	RA226	1.18E+03	1.5E+02	pCi/kg	07-06-99	SOIL	660.00 gm	E10602.PC	05-01
TAML-VER-28	REG	TH228	2.51E+03	2.6E+02	pCi/kg	07-06-99	SOIL	660.00 gm	E10602.PC	05-01
TAML-VER-28	REG	TH232	1.86E+03	2.7E+02	pCi/kg	07-06-99	SOIL	660.00 gm	E10602.PC	05-01
TAML-VER-28	REG	U 238	0.00E+00	0.0E+00	pCi/kg	07-06-99	SOIL	660.00 gm	E10602.PC	05-01

Comments:

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RADIOMETRIC QA/QC RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Control Sample Identification	Sample Type	Radio-nuclide	Peak Energy KeV	Measured Value	Known Value	% Diff.	Units	Method No.	Instrument ID	Date of Check
QA BKG WATER U08	CNTRL	No Nuclide	Not Appl.	0.00E+00	0.00E+00			E10602.PC	08-01	070699
QA BKG WATER U08	CNTRL	AM241	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	08-01	070699
QA BKG WATER U08	CNTRL	CO60	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	08-01	070699
QA BKG WATER U08	CNTRL	CS137	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	08-01	070699
QA SP:QAW-8A	CNTRL	AM241	59.2	3.07E+03	3.29E+03	-6.7	pCi/kg	E10602.PC	08-01	070799
QA SP:QAW-8A	CNTRL	CO60	1173.4	5.19E+03	5.36E+03	-3.2	pCi/kg	E10602.PC	08-01	070799
QA SP:QAW-8A	CNTRL	CS137	661.8	3.84E+03	3.96E+03	-3.1	pCi/kg	E10602.PC	08-01	070799
QA BKG EMPTY BTL U06	CNTRL	No Nuclide	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	06-01	070699
QA BKG EMPTY BTL U06	CNTRL	AM241	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	06-01	070699
QA BKG EMPTY BTL U06	CNTRL	CO60	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	06-01	070699
QA BKG EMPTY BTL U06	CNTRL	CS137	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	06-01	070699
QA SP:NAS-A0269	CNTRL	AM241	59.7	1.73E+05	1.80E+05	-3.8	pCi/kg	E10602.PC	06-01	070699
QA SP:NAS-A0269	CNTRL	CO60	1173.4	3.41E+05	3.32E+05	2.7	pCi/kg	E10602.PC	06-01	070699
QA SP:NAS-A0269	CNTRL	CS137	661.7	2.29E+05	2.25E+05	1.8	pCi/kg	E10602.PC	06-01	070699
QA BKG EMPTY BTL U07	CNTRL	No Nuclide	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	07-01	070699

Comments:

RADIOMETRIC QA/QC RESULTS

BECHTEL Analytical Services

Case No.: CAU 461 TAML Verif.

Method Type: RAGMA

SDG No.: C519

Control Sample Identification	Sample Type	Radio-nuclide	Peak Energy KeV	Measured Value	Known Value	% Diff.	Units	Method No.	Instrument ID	Date of Check
QA BKG EMPTY BTL U07	CNTRL	AM241	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	07-01	070699
QA BKG EMPTY BTL U07	CNTRL	CO60	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	07-01	070699
QA BKG EMPTY BTL U07	CNTRL	CS137	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	07-01	070699
QA SP:NAS-A0270	CNTRL	AM241	59.3	1.65E+05	1.79E+05	-7.6	pCi/kg	E10602.PC	07-01	070799
QA SP:NAS-A0270	CNTRL	CO60	1173.4	3.16E+05	3.30E+05	-4.0	pCi/kg	E10602.PC	07-01	070799
QA SP:NAS-A0270	CNTRL	CS137	661.6	2.15E+05	2.24E+05	-4.2	pCi/kg	E10602.PC	07-01	070799
QA BKG EMPTY BTL U05	CNTRL	No Nuclide	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	05-01	070699
QA BKG EMPTY BTL U05	CNTRL	AM241	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	05-01	070699
QA BKG EMPTY BTL U05	CNTRL	CO60	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	05-01	070699
QA BKG EMPTY BTL U05	CNTRL	CS137	Not Appl.	0.00E+00	0.00E+00		pCi/kg	E10602.PC	05-01	070699
QA SP:NAS-A0271	CNTRL	AM241	59.3	2.01E+05	1.80E+05	11.4	pCi/kg	E10602.PC	05-01	070699
QA SP:NAS-A0271	CNTRL	CO60	1173.0	3.35E+05	3.31E+05	1.3	pCi/kg	E10602.PC	05-01	070699
QA SP:NAS-A0271	CNTRL	CS137	661.5	2.29E+05	2.26E+05	1.3	pCi/kg	E10602.PC	05-01	070699

Comments:

APPENDIX E

RADIOLOGICAL SURVEY RESULTS

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RADIATION SURVEY REPORT

Number A 14654 Page 1 of 2

RGT(S): Colglazier		HEALTH PHYSICIST: O Keefe		SUPERVISOR: S. Junio		SIGNATURE: <i>[Signature]</i>		DATE: 3-17-99	
COUNTING EQUIPMENT USED IN COLUMN		COUNTING EQUIPMENT USED IN COLUMN		EVENT/RWP NO:		PROJECT / WORK ORDER: TTR DU-2		INSTRUMENT USED IN COLUMN	
INSTRUMENT		INSTRUMENT		INSTRUMENT		INSTRUMENT		INSTRUMENT	
ALPHA EFFICIENCY		BETA EFFICIENCY		BETA EFFICIENCY		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN	
MDA		MDA		MDA		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN	
CONVERSION FACTOR		CONVERSION FACTOR		CONVERSION FACTOR		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN	
COUNT TIME		COUNT TIME		COUNT TIME		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN	
PURPOSE: Stamp & Tromp Survey of DU-2 @ TTR.		ALL READINGS MEET UNRESTRICTED RELEASE LIMITS? YES ☒ NO ☐		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN	
TIME		DESCRIPTION OF SURVEY		No. of Points		UNIT		UNIT	
N/A		BACKGROUND (Gross)		N/A		22.3		101	
1230		Point #1		1		67		327	
*		#2		1		22.3		432	
		#3		1		0		396	
		#4		1		44.7		242	
		#5		1		33.5		396	
		#6		1		0		246	
		#7		1		22.3		255	
		#8		1		67		234	
		#9		1		11.2		287	
		#10		1		0		311	
		#11		1					
		#12		1					

COMMENTS: swipes counted 1min on the Electra. * Survey was started @ 1230 and Each Additional point was not documented on exact time. Point 8 was surveyed and the readings were in line with all the other readings. The Exact Data was lost in transit from TTR to Mercury.

FOLLOW UP REQUIRED? YES ☐ NO ☒

ALL READINGS ARE NET ABOVE BACKGROUND UNLESS NOTED

RCT(S): Colglazier	SIGNATURE:	DATE: 3-17-99
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HEALTH PHYSICIST: <i>O'Keefe</i>	SUPERVISOR: <i>S. Junia</i>	EVENT / RWP NO: <i>102</i>	PROJECT / WORK ORDER: <i>ITR D2-2</i>
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PURPOSE:	STOMP & Tromp Survey of DU-2 @	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
	TTR	☒ ☐ ☐ ☐ OTHER	☐ ☐ ☒ ☐ OTHER	☐ ☐ ☐ ☒ OTHER	☐ ☐ ☐ ☐ OTHER	☐ ☐ ☐ ☒ OTHER

[illegible]

TIME	DESCRIPTION OF SURVEY	No. of Points	REMOVE SWIPE N/A	REMOVE SWIPE N/A	REMOVE SWIPE N/A	REMOVE SWIPE N/A	REMOVE SWIPE N/A
N/4	BACKGROUND (Gross)	N/A	22.3	1010	15		
*	Point # 13	1	11.2	246	15		
	# 14		33.5	299	15		
	# 15		44.7	246	14		
	# 16		24.5	0	15		
	# 17		0	0	15		
	# 18		11.2	307	16		
	# 19		11.2	158	15		
	# 20		44.7	158	15		
	# 21		0	384	15		
	# 22		0	166	15		
	# 23		0	400	14		
	# 24		11.2	335	15		
	# 25		78.2	356	16		
	# 26		22.3	218	15		

COMMENTS:

FOLLOW UP REQUIRED? YES ☒ NO ☒

ALL READINGS ARE NET ABOVE BACKGROUND UNLESS NOTED

RADIATION SURVEY REPORT

Number A 02762 Page 1 of 1

RCT(S): Colglazier/Morris

HEALTH PHYSICIST: Lyons

SUPERVISOR: Junio

SIGNATURE: [Signature]

DATE: 6-24-99

COUNTING EQUIPMENT USED IN COLUMN

COUNTING EQUIPMENT USED IN COLUMN

INSTRUMENT USED IN COLUMN 1-4

EVENT/RWP NO: BN 99111

PROJECT / WORK ORDER: CAV 461

INSTRUMENT NUMBER

INSTRUMENT NUMBER

INSTRUMENT NUMBER
Electra # 1814

INSTRUMENT USED IN COLUMN

INSTRUMENT USED IN COLUMN

ALPHA N BETA N
EFFICIENCY

ALPHA N BETA N
EFFICIENCY

INSTRUMENT USED IN COLUMN N

INSTRUMENT NUMBER

INSTRUMENT NUMBER

MDA N

MDA N

INSTRUMENT A NUMBER

INSTRUMENT USED IN COLUMN A

INSTRUMENT USED IN COLUMN A

CONVERSION FACTOR

CONVERSION FACTOR

ALL READINGS MEET UNRESTRICTED

INSTRUMENT NUMBER

INSTRUMENT NUMBER

COUNT TIME

COUNT TIME

RELEASE LIMITS? ☒ YES ☐ NO

COLUMN 1
☒ α ☐ β ☐ γ
OTHER

COLUMN 2
☒ α ☐ β ☐ γ
OTHER

COLUMN 3
☐ α ☒ β ☐ γ
OTHER

COLUMN 4
☒ α ☒ β ☐ γ
OTHER

COLUMN 5
☐ α ☐ β ☐ γ
OTHER

PURPOSE: Stomp + Tromp for deposing CAV 461

TIME

DESCRIPTION OF SURVEY

No. of Points

UNIT dpm/100cm²
FIXED +
REMOVE ☐
SWIPE ☒
N/A ☐

UNIT dpm/100cm²
FIXED +
REMOVE ☒
SWIPE ☐
N/A ☐

UNIT dpm/100cm²
FIXED +
REMOVE ☒
SWIPE ☐
N/A ☐

UNIT dpm/100cm²
FIXED +
REMOVE ☒
SWIPE ☐
N/A ☐

UNIT dpm/100cm²
FIXED +
REMOVE ☐
SWIPE ☐
N/A ☐

N/A BACKGROUND (Gross)

Sample Point # 1

N/A

22

22

1384

1405

2

79

7

114

121

3

29

14

15

30

4

38

7

127

134

5

36

0

72

50

6

0

7

0

7

7

7

29

193

222

8

0

7

0

0

9

0

22

24

46

10

0

7

202

209

11

0

0

138

124

7

0

127

84

COMMENTS: Survey was started 6-24-99 and Completed 6-29-99. A 100% surface scan was done prior to the stomp and tromp. Column 2,3+4 are surface readings. Tennelec Results will be Attached.

FOLLOW UP REQUIRED? YES ☐ NO ☒

ALL READINGS ARE NET ABOVE BACKGROUND UNLESS NOTED

RCT(S):				SIGNATURE:				DATE:							
HEALTH PHYSICIST:				SUPERVISOR:				EVENT/RWP NO:				PROJECT / WORK ORDER:			
COUNTING EQUIPMENT USED IN COLUMN		COUNTING EQUIPMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN			
INSTRUMENT NUMBER		INSTRUMENT NUMBER		INSTRUMENT NUMBER		INSTRUMENT NUMBER		INSTRUMENT NUMBER		INSTRUMENT NUMBER		INSTRUMENT NUMBER			
ALPHA EFFICIENCY		BETA EFFICIENCY		ALPHA EFFICIENCY		BETA EFFICIENCY		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN			
MDA		MDA		MDA		MDA		INSTRUMENT NUMBER		INSTRUMENT NUMBER		INSTRUMENT NUMBER			
CONVERSION FACTOR		CONVERSION FACTOR		CONVERSION FACTOR		CONVERSION FACTOR		ALL READINGS MEET UNRESTRICTED RELEASE LIMITS? ☒ YES ☐ NO		COLUMN 1 ☒ α ☒ β ☐ γ ☐ OTHER		COLUMN 2 ☒ α ☒ β ☐ γ ☐ OTHER			
COUNT TIME		COUNT TIME		COUNT TIME		COUNT TIME				COLUMN 3 ☐ α ☐ β ☒ γ ☐ OTHER		COLUMN 4 ☒ α ☒ β ☒ γ ☐ OTHER			
										COLUMN 5 ☐ α ☐ β ☐ γ ☐ OTHER					
PURPOSE:				UNIT $\mu\text{Rm}/100\text{cm}^2$ FIXED + REMOVE ☐ SWIPE ☒ N/A ☐				UNIT $\mu\text{Rm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐				UNIT $\mu\text{Rm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐			
				UNIT $\mu\text{Rm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐				UNIT $\mu\text{Rm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐				UNIT $\mu\text{Rm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐			
TIME	DESCRIPTION OF SURVEY						No. of Points								
N/A	BACKGROUND (Gross)						N/A	22	22	1384	1405				
	Sample Point # 12							Ø	22	261	283				
	13							Ø	7	281	288				
	14							7	Ø	140	119				
	15							Ø	Ø	114	107				
	16							Ø	Ø	158	151				
	17							33	12	13	25				
	18							54	Ø	72	72				
	19							Ø	Ø	239	210				
	20							Ø	Ø	178	156				
	21							Ø	Ø	138	95				
	22							7	7	57	64				

COMMENTS:

FOLLOW UP REQUIRED? YES ☐ NO ☒

ALL READINGS ARE NET ABOVE BACKGROUND UNLESS NOTED

RCT(S):					SIGNATURE:					DATE:																								
HEALTH PHYSICIST:					SUPERVISOR:					EVENT/ RWP NO:					PROJECT / WORK ORDER:																			
COUNTING EQUIPMENT USED IN COLUMN				COUNTING EQUIPMENT USED IN COLUMN				INSTRUMENT USED IN COLUMN				INSTRUMENT USED IN COLUMN				INSTRUMENT USED IN COLUMN																		
INSTRUMENT		NUMBER		INSTRUMENT		NUMBER		INSTRUMENT		NUMBER		INSTRUMENT		NUMBER		INSTRUMENT		NUMBER																
ALPHA		BETA		ALPHA		BETA		INSTRUMENT USED IN COLUMN				INSTRUMENT USED IN COLUMN				INSTRUMENT USED IN COLUMN																		
EFFICIENCY		EFFICIENCY		EFFICIENCY		EFFICIENCY		INSTRUMENT USED IN COLUMN				INSTRUMENT USED IN COLUMN				INSTRUMENT USED IN COLUMN																		
MDA		MDA		MDA		MDA		INSTRUMENT				INSTRUMENT				INSTRUMENT																		
CONVERSION FACTOR		CONVERSION FACTOR		CONVERSION FACTOR		CONVERSION FACTOR		ALL READINGS MEET UNRESTRICTED				COLUMN 1		COLUMN 2		COLUMN 3		COLUMN 4		COLUMN 5														
COUNT TIME		COUNT TIME		COUNT TIME		COUNT TIME		RELEASE LIMITS? ☒ YES ☐ NO				☒ α ☐ β ☐ γ OTHER		☒ α ☐ β ☐ γ OTHER		☐ α ☒ β ☐ γ OTHER		☐ α ☒ β ☐ γ OTHER		☐ α ☐ β ☐ γ OTHER														
PURPOSE:					UNIT					UNIT					UNIT					UNIT					UNIT									
					FIXED +					FIXED +					FIXED +					FIXED +					FIXED +									
					REMOVE ☐					REMOVE ☐					REMOVE ☐					REMOVE ☐					REMOVE ☐									
					SWIPE ☐					SWIPE ☐					SWIPE ☐					SWIPE ☐					SWIPE ☐									
					N/A ☐					N/A ☐					N/A ☐					N/A ☐					N/A ☐									
TIME					DESCRIPTION OF SURVEY					No. of Points																								
					BACKGROUND (Gross)					N/A					22					22					1384					1405				
					Sample point # 23										7					22					263					285				
					24										0					7					123					130				
					25										14					0					92					92				
					26										7					0					399					378				
					27										0					72					298					370				
					28										43					7					351					358				
					29										0					0					638					638				
					30										0					58					1015					1073				
					31										0					7					544					551				
					32										29					22					37					59				
					33										0					0 + 14 = 14					1533					1533				

COMMENTS:

FOLLOW UP REQUIRED? YES ☐ NO ☒

ALL READINGS ARE NET ABOVE BACKGROUND UNLESS NOTED

RADIATION SURVEY REPORT

Number A 02765 Page 4 of 6

RCT(S):

HEALTH PHYSICIST:

SUPERVISOR:

SIGNATURE:

DATE:

EVENT/ RWP NO:

PROJECT / WORK ORDER:

COUNTING EQUIPMENT USED IN COLUMN		COUNTING EQUIPMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN	
INSTRUMENT	NUMBER	INSTRUMENT	NUMBER	INSTRUMENT	NUMBER	INSTRUMENT	NUMBER	INSTRUMENT	NUMBER
ALPHA EFFICIENCY	BETA EFFICIENCY	ALPHA EFFICIENCY	BETA EFFICIENCY	INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN		INSTRUMENT USED IN COLUMN	
MDA	MDA	MDA	MDA	INSTRUMENT	NUMBER	INSTRUMENT	NUMBER	INSTRUMENT	NUMBER
CONVERSION FACTOR	CONVERSION FACTOR	CONVERSION FACTOR	CONVERSION FACTOR	ALL READINGS MEET UNRESTRICTED RELEASE LIMITS? ☒ YES ☐ NO		COLUMN 1 ☒ α ☐ β ☐ γ OTHER	COLUMN 2 ☒ α ☐ β ☐ γ OTHER	COLUMN 3 ☒ α ☐ β ☐ γ OTHER	COLUMN 4 ☒ α ☐ β ☐ γ OTHER
COUNT TIME		COUNT TIME				UNIT $\text{dpm}/100\text{cm}^2$ FIXED + REMOVE ☐ SWIPE ☒ N/A ☐	UNIT $\text{dpm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐	UNIT $\text{dpm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐	UNIT $\text{dpm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐

PURPOSE:

TIME	DESCRIPTION OF SURVEY	No. of Points	UNIT $\text{dpm}/100\text{cm}^2$ FIXED + REMOVE ☐ SWIPE ☒ N/A ☐	UNIT $\text{dpm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐	UNIT $\text{dpm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐	UNIT $\text{dpm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐	UNIT $\text{dpm}/100\text{cm}^2$ FIXED + REMOVE ☒ SWIPE ☐ N/A ☐
N/A	BACKGROUND (Gross)	N/A	14	1500	1500	1514	
	Sample Point # 34		Ø	14	456	471	
	35		Ø	Ø	15	Ø	
	36		Ø	Ø	Ø	Ø	
	37		Ø	7	Ø	Ø	
	38		Ø	Ø	217	210	
	39		Ø	Ø	2	Ø	
	40		Ø	Ø	Ø	Ø	
	41		Ø	Ø	415	400	
	42		14	Ø	790	754	
	43		Ø	14	Ø	Ø	
	44		14	7	Ø	Ø	

COMMENTS:

FOLLOW UP REQUIRED? YES ☐ NO ☒

ALL READINGS ARE NET ABOVE BACKGROUND UNLESS NOTED

RADIATION SURVEY REPORT

Number A 02766 Page 5 of 6

RCT(S):

HEALTH PHYSICIST:

SUPERVISOR:

SIGNATURE:

DATE:

COUNTING EQUIPMENT USED
IN COLUMN

COUNTING EQUIPMENT USED
IN COLUMN

INSTRUMENT USED
IN COLUMN

INSTRUMENT USED
IN COLUMN

PROJECT / WORK ORDER:

INSTRUMENT NUMBER

INSTRUMENT NUMBER

INSTRUMENT NUMBER

INSTRUMENT NUMBER

INSTRUMENT USED
IN COLUMN
INSTRUMENT NUMBER

ALPHA BETA
EFFICIENCY EFFICIENCY

ALPHA BETA
EFFICIENCY EFFICIENCY

INSTRUMENT USED
IN COLUMN

INSTRUMENT USED
IN COLUMN

INSTRUMENT USED
IN COLUMN

MDA MDA

MDA MDA

INSTRUMENT NUMBER

INSTRUMENT NUMBER

INSTRUMENT NUMBER

CONVERSION FACTOR CONVERSION FACTOR

CONVERSION FACTOR CONVERSION FACTOR

COUNT TIME

COUNT TIME

ALL READINGS MEET UNRESTRICTED
RELEASE LIMITS? ☒ YES ☐ NO

COLUMN 1
☒ α ☐ β ☐ γ
OTHER

COLUMN 2
☒ α ☐ β ☐ γ
OTHER

COLUMN 3
☐ α ☒ β ☐ γ
OTHER

COLUMN 4
☒ α ☒ β ☒ γ
OTHER

COLUMN 5
☐ α ☐ β ☐ γ
OTHER

PURPOSE:

UNIT
dpm/100cm²
FIXED +
REMOVE
SWIPE ☒
N/A ☐

UNIT
dpm/100cm²
FIXED +
REMOVE
SWIPE ☒
N/A ☐

UNIT
dpm/100cm²
FIXED +
REMOVE
SWIPE ☒
N/A ☐

UNIT
dpm/100cm²
FIXED +
REMOVE
SWIPE ☒
N/A ☐

UNIT
FIXED +
REMOVE
SWIPE ☐
N/A ☐

TIME DESCRIPTION OF SURVEY

No. of
Points

N/A BACKGROUND (Gross)

N/A

Sample Point # 45

14

14

1500

1514

46

Ø

22

Ø

Ø

47

14

7

294

301

48

Ø

Ø

Ø

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49

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29

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Ø

50

14

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51

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568

554

52

22

58

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53

7

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Ø

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54

29

36

99

135

55

7

Ø

Ø

Ø

Ø

29

68

97

COMMENTS:

FOLLOW UP REQUIRED? YES ☐ NO ☒

ALL READINGS ARE NET ABOVE BACKGROUND UNLESS NOTED

[illegible]

COMMENTS:

FOLLOW UP REQUIRED? YES ☐ NO ☒

ALL READINGS ARE NET ABOVE BACKGROUND UNLESS NOTED

APPENDIX F

TECHNICAL CHANGES

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RECORD OF TECHNICAL FIELD CHANGE TO APPROVED WORK PLANS

Technical Change No: TCN-001-99	Project/Job No: CAU 461	Date: 3/4/99
Project/Job Name: SAFER Closure for CAS TA-52-002-TAML		
Work Plan Title: SAFER for CAU 461 & CAU 495, TTR, Nevada		Document Date: August 1998
The following Work Plan technical changes are requested by:		
Printed Name: Jeffrey L. Smith	Title: Task Manager	Signature:
Technical Change (list specific page/section/paragraph as appropriate):		
<p>Pg 23/3.4.1.1</p> <p>This Technical Amendment addresses a modification to the TA-52-002-TAML (TAML) site verification sampling process portion of the Nevada Division of Environmental Protection (NDEP) approved Streamlined Approach for Environmental Restoration (SAFER) Work Plan. The approved verification sampling activity consists of the collection of eight biased surface soil samples from previously identified DU impacted areas. The remainder of the site was to be divided into 3 m (10 ft) by 3 m (10 ft) grids. Five percent (16 samples) of the grids will be randomly selected using a random number generator (each cell would be assigned a number and computer program will select 14 of the cells). This verification sampling strategy was based upon limited pre-characterization data that indicated that the DU impacted soil was primarily located in the near surface. The SAFER Work Plan verification sampling process did not address a large subsurface excavation.</p> <p>At the DU artillery round sites (Pg 26/3.4.1.2), a methodology had been developed for large subsurface excavations. Five verification samples are collected, one sample from each side of the excavation. Since the TAML site excavation would be larger than the DU artillery round excavations, additional samples would be required for the TAML site to confirm that all of the impacted soil had been excavated. Therefore, the following verification sampling strategy will be employed at the TAML site:</p> <ul style="list-style-type: none"> • Ten verification samples will be collected from the 9 m (30 ft) by 12 m (40 ft) "hot spot". Two samples will be collected from each surface. Each surface of the excavation will be divided into six squares. Two of these squares will be randomly selected using a random number generator. • The remaining 14 verification samples will be randomly selected (using a random number generator) from the cells created by dividing the site into 3 m (10 ft) by 3 m (10 ft) grids. <p>These modifications along with the radiological instrument survey over the entire site, will provide sufficient information to verify that all DU impacted soil above the SAFER Work Plan release criteria of 500 pCi/g has been removed from the site.</p>		

Justification (list specific reasons for change and the effects on project schedule/costs/personnel):

Corrective Action Unit (CAU) 461 consists of three Corrective Action Sites (CAS). Field work following the Streamlined Approach for Environmental Restoration (SAFER) Work Plan was completed in December 1998 for the TTR-001 (Depleted Uranium (DU) Round Number 1) and TA-52-003-0960 (DU Round Number 2) CASs. Work on the final CAU 461 CASs, TA-52-002-TAML (TAML), was initiated on January 11, 1999. The closure activities, outlined within the SAFER Work Plan, for the TAML site was based upon information that indicated that the vertical extent of DU impacted soil was limited to a depth of no greater than two feet below ground surface at a few small (less than one meter (m) [3 feet (ft)] in diameter) "hot spots".

The SAFER Work Plan estimated that the total of 153 cubic meters (m^3) (200 cubic yards [yd^3]) of DU impacted soil would be removed from the TAML site. Thirteen $15.3\text{-}m^3$ (20- yd^3) trailers were contracted to be on-site to transport the DU impacted soil from the Tonopah Test Range (TTR) to the Nevada test Site (NTS) for disposal. During the TAML closure activities a 9 m (30 ft) by 12 m (40 ft) "hot spot" was identified. Investigation of the "hot spot" delineated a vertical depth of 3 m (10 ft). The volume of DU impacted soil increased from approximately $153\text{ }m^3$ (200 yd^3) to $573\text{ }m^3$ (750 yd^3). Work was stopped at the site and an extension was requested by the Department of Energy, Nevada Operations Office (DOE/NV) to the Nevada Division of Environmental Protection (NDEP) for the Federal Facility Agreement Consent Order (FFACO) Closure Report milestone date.

Will other project documents be affected? ☐ Yes ☒ No Specify:

APPROVALS:

BN Program Manager:	Printed Name: Dave Cowser	Signature:	Date: 3/8/99
BN Project Manager:	Printed Name: Steve Nacht	Signature:	Date: 3/8/99
BN Task Manager:	Printed Name: Jeff Smith	Signature:	Date: 3/4/99

CONCURRENCES:

DOE/NV Project Manager:	Printed Name: Janet Appenzeller-Wing	Signature:	Date: 3/8/99
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EFFECTIVE DATE OF FIELD CHANGE:

Verbal Approval Provided to:	Printed Name: N/A	Title:	Date:
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RECORD OF TECHNICAL CHANGE NOTICE TO APPROVED WORK PLANS

Technical Change No: TCN-002-99	Project/Job No: CAU 461	Date: 3/29/99
Project/Job Name: SAFER Closure for CAS TA-52-002-TAML		
Work Plan Title: SAFER for CAU 461 & CAU 495, TTR, Nevada		Document Date: August 1998
The following Work Plan technical changes are requested by:		
Printed Name: Jeffrey L. Smith	Title: Task Manager	Signature:
Technical Change (list specific page/section/paragraph as appropriate):		
<p>Since the SAFER Work Plan did not anticipate large scale subsurface excavation activity at the TAML site, there is no site specific excavation process for the TAML site outlined within the Work Plan. However, the process for subsurface excavation at the other CASs in CAU 495 and 461 is specified in Section 3.3.2 of the SAFER Work Plan and Attachments A and G of the SAFER Site Specific Health and Safety Plan. The methodologies proposed within the plans will be implemented at the TAML site. The following modifications to the SAFER Work Plan are proposed:</p> <ul style="list-style-type: none"> • Section 3.3.1, page 21, 3rd paragraph, 3rd sentence - change sentence to indicate subsurface activities will be confined to upper 3 m (10 ft). • Section 3.3.1, page 21, 4th paragraph, 3rd sentence - Change sentence to indicate soil will not be transferred into the trailers using a conveyor system. • Section 3.3.1, page 21, 4th paragraph, 4th sentence - Need to clarify that 153 m³ (200 yd³) of soil will be generated during the surface scraping activity and an additional 420 m³ (550 yd³) of DU impacted soil will be generated during subsurface excavation. • Section 3.3.1, page 21, 4th paragraph, 7th sentence - Modify sentence to indicate that "hot spots" excavation can be conducted using a shovel as well as a backhoe. Further modify sentence to indicate that "hot spot" soil will be placed into burrito lined trailers instead of a B-25 box. • Section 3.3.2, page 22, 3rd paragraph, 2nd sentence - Modify sentence to indicate that non-impacted soil will not be placed on plastic or covered with plastic. Instead, the soil will be stockpiled on the uncovered ground and sprayed with water. The water spray will form an outer crust which will inhibit wind dispersion of the soil from the stockpile. • Section 3.3.2, page 22, 6th paragraph - The entire paragraph after the first sentence will be deleted and replaced with the following: Field investigation during the TAML closure activities have determined that the extent of subsurface DU impacted soil is greater than the original scope of work. A 9 m (30 ft) by 12 m (40 ft) by 3 m (10 ft) deep "hot spot" was identified. Approximately 420 m³ (550 yd³) of DU impacted soil will be generated during subsurface excavation of this "hot spot". The DU impacted soil will be excavated following the procedure outlined in Section 3.1 of this SAFER Work Plan. The DU impacted soil will be stockpiled directly onto plastic and sprayed with water. The water spray will form a outer crust which will inhibit wind dispersion of the DU impacted soil from the stockpile. The burrito lined trailers will be filled directly by a front end loader which will be used to transport the soil from the stockpile. 		

Justification (list specific reasons for change and the effects on project schedule/costs/personnel):

Corrective Action Unit (CAU) 461 consists of three Corrective Action Sites (CAS). Field work following the Streamlined Approach for Environmental Restoration (SAFER) Work Plan was completed in December 1998 for the TTR-001 (Depleted Uranium (DU) Round Number 1) and TA-52-003-0960 (DU Round Number 2) CASs. Work on the remaining CAU 461 CAS, TA-52-002-TAML (TAML), was initiated on January 11, 1999. The closure activities for the TAML site, as outlined within the SAFER Work Plan, was based upon information which indicated that the vertical extent of DU impacted soil was limited to a depth of no greater than two feet below ground surface at a few small (less than one meter (m) [3 feet (ft)] in diameter) "hot spots".

The SAFER Work Plan estimated that the total of 153 cubic meters (m^3) (200 cubic yards [yd^3]) of DU impacted soil would be removed from the TAML site. Thirteen $15.3\text{-}m^3$ (20- yd^3) trailers were contracted to be on-site to transport the DU impacted soil from the Tonopah Test Range (TTR) to the Nevada Test Site (NTS) for disposal. During the TAML closure activities a 9 m (30 ft) by 12 m (40 ft) "hot spot" was identified. Investigation of the "hot spot" delineated a vertical depth of 3 m (10 ft). The volume of DU impacted soil increased from approximately $153\text{ }m^3$ (200 yd^3) to $573\text{ }m^3$ (750 yd^3). Work was stopped at the site and an extension was requested by the Department of Energy, Nevada Operations Office (DOE/NV) to the Nevada Division of Environmental Protection (NDEP) for the Federal Facility Agreement Consent Order (FFACO) Closure Report milestone date.

Will other project documents be affected? ☐ Yes ☒ No Specify:

APPROVALS:

BN Program Manager:	Printed Name: Dave Cowser	Signature:	Date: 4-1-99
BN Project Manager:	Printed Name: Steve Nacht	Signature:	Date: 3/31/99
BN Task Manager:	Printed Name: Jeff Smith	Signature:	Date: 3/31/99

CONCURRENCES:

DOE/NV Project Manager:	Printed Name: Janet Appenzeller-Wing	Signature:	Date: 4/1/99
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EFFECTIVE DATE OF FIELD CHANGE:

Verbal Approval Provided to:	Printed Name: N/A	Title:	Date:
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RECORD OF TECHNICAL FIELD CHANGE TO APPROVED WORK PLANS

Technical Change No: TLV-003-99		Project/Job No: CAU 461 JTA		Date: 4/19/99	
Project/Job Name: CAU 461 - JTA Sds					
Work Plan Title: SAFER Work Plan CAU 461 + CAU 465				Document Date: 8/98	
The following Work Plan technical changes are requested by:					
Printed Name: Jeffrey L. Smith		Title: Task Manager		Signature: <i>[Signature]</i>	
Technical Change (list specific page/section/paragraph as appropriate):					
Modification of Technical Change No: TLV-002-99 last bullet which states Soil will be excavated following Section 3.1 which states a backhoe will be used. We will use the front end loader to excavate up to a depth of 4 ft below ground surface.					
Justification (list specific reasons for change and the effects on project schedule/costs/personnel):					
The use of a front end loader will expedite the excavation process and will increase worker safety.					
Will other project documents be affected? ☐ Yes ☒ No Specify:					
APPROVALS:					
BN Program Manager:		Printed Name: David Carson		Signature: <i>[Signature]</i> Date: 4/21/99	
BN Project Manager:		Printed Name: Steve Nacht		Signature: <i>[Signature]</i> Date: 4/20/99	
BN Task Manager:		Printed Name: Jeffrey L. Smith		Signature: <i>[Signature]</i> Date: 4/19/99	
CONCURRENCES:					
DOE/NV Project Manager:		Printed Name: Janet Appeneller-Wing		Signature: <i>[Signature]</i> Date: 4/21/99	
EFFECTIVE DATE OF FIELD CHANGE:					
Verbal Approval Provided to:		Printed Name:		Title: Date:	

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APPENDIX G

SHIPPING MANIFESTS

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STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE

Shipper No. NTS073636

CAU 461 TAML SITE/ TTR

TONOPAH NV 89043-

Purchase/

Date: 04-19-99

Customer Order No.

Shipment is subject to the classifications and terms in effect on the date of the issue of this Bill of Lading. The property described below, in apparent good order, except as noted (contents and condition of packages, if marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is agreed as to each carrier or all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE

A-3 RWMS, ZONE 2

NEVADA TEST SITE

MERCURY NV 89023-

MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

*CAU: 461 TAML SITE/ TTR
001 04-19-99 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 506731

Route:

Carrier
No.Section 13/12
Tender, No.:

HTS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 62 DRIVER NAME Joe YBARRA SHIPMENT # DPL99008	55,590 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
Total Pieces			TOTALS:	Kgs	lbs		

IN THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

NMFC Code	NPM NO	Label(s) applied
48240		

137KS:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, labeled, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

By BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Under contract DC AC08 96NV11718

with U.S. Dept. of Energy

Alan R. Marchand

Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted.

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: [Signature]

Date: 4/19/99

STRAIGHT BILL OF LADING - SHIPPER'S ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Date: 04-19-99

Purchase/
Customer Order No.

Received, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

*CAU: 461 mss *ETON*
003 04-19-99

CAR OR VEHICLE INITIALS & NO.

SEAL # TED # 500733

Route:

Carrier
No.Section 13/12
Tender, No.:

KGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 60 DRIVER NAME Ted Black SHIPMENT # DPL99009	56,330 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per Job order, reference, account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 56,330	Lbs			Severals: \$ Label(s) applied

THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

QTY	NMFC 100-	NPM NO.
1	48240	

MARKS:

Placard(s) Required

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Shipped under contract DC AC08 96NV11718

with U.S. Dept. of Energy

ALAN R. MARCHAND

Date: 04/08/1999

TRANSPORTATION DEPT. Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: Ted Black

Date: 4-19-99

NEVADA FOR US DOE

AMLSITE/ TTR

NV-89049-

Shipper No. NTS073636

Date: 04-19-99

Purchase/

Customer Order No.

Notice: This bill of lading is subject to the date of the issue of this Bill of Lading. The property described below, in apparent good order, except as noted (contents and condition shown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in order the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. That he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation and terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

FOR USDOE

2

TE

23-

295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 500715

Carrier No.

Section 13/12
Tender, No.:

Description of Articles (Subject to Correction), Kind of Package,
Special Marks and Exceptions (See NMFC Item (Rule) 360)

-RADIOACTIVELY CONTAMINATED
-REGULATED PER 49 CFR 173.403

ICLE # 59

VER NAME Tom Carter

PMENT # DPL99010

Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
	55,720 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per lb. Job order, reference, account, or work order number C7P05G13
TOTALS:	Kgs 55,720 lbs				

AN EMERGENCY, PHONE - 24 HOURS

NPM NO.			Label(s) applied
			Record(s) Required

named materials are properly classified, and labeled, and are in proper condition for applicable regulations of the Department of Hazardous Materials Only.)

P O BOX 98521, LAS VEGAS, NV 89193

38 96NV11718

with U.S. Dept. of Energy

Date: 04/08/1999

Per *Handwritten Signature*

DEPT. - Permanent Post Office Address of Shipper

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per *Handwritten Signature*

Date:

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/TTR
TONOPAH NV 89049-

Shipper No. NTS073631
Date: 4-20-99
Purchase Order No.
Customer Order No.

RECEIVED: Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below is hereby received by the carrier (the word carrier being understood to mean the person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to a place of delivery mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party to this bill of lading, it is to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the bill of lading, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment, or (3) in the applicable rail-water shipment, or (4) in the applicable air carrier classification or tariff if this is an air carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, and that he agrees to the said terms and conditions and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns by the carrier.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER: ETON / ENVIRO TRANSPORT
CAU: 461 *ETON*

CAR OR VEHICLE INITIALS & NO. 461-795

Route: Carrier No. 461-795

No. PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 1 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 60 DRIVER NAME Ted Black SHIPMENT # DPL99011	58,710 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$100,000 per lot. Job order, reference account, or work order number: IC7P05G13
Total Pieces		TOTALS:	Kgs	58,710	1164.2		

IN THE EVENT OF AN EMERGENCY, PHONE

EM NO.	NMFC ICC	NPM NO.
1	43240	

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89183

Acting under contract: DC AC08 96NV11718

Per: ALAN R. MARCHAND

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Purchase Order No.
Customer Order No.

Date: 4-20-99

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in accordance with the terms and conditions of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood to include any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to the nearest place of destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the bill of lading, and (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, and that he agrees to the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF

CAU: 461 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # TTD # 300790

Route:

Carrier No.

Section 1371
Tender, No.

No PKGS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 62 DRIVER NAME Joe Ylars SHIPMENT # DPL99012	54,790 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per Job order, reference, account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 54,790	Lbs			Savings:

THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

MINO	NMFC 100	NPM NO
148240		

Remarks:

Placard(s) Required

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper BECHTEL NEVADA P O BOX 98521 LAS VEGAS, NV 89193

Shipping under contract CC AC08 96NV11718

with U.S. Dept. of Energy

By ALAN R. MARCHAND

Date 04/08/1999

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier ETON / ENVIRO TRANSPORT OF NV

Per

Date

TRANSPORTATION DEPT. Permanent Post Office Address of Shipper

Page 1 of 1

4/20/99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE

CAU 461 TAML SITE/ TTR

TONOPAH NV 89049-

Shipper No. NTS073635

Purchase/

Customer Order No.

20-99

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in its present condition (contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood to include any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to the nearest place to which it is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party, the carrier shall be subject to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth in (1) the Uniform Bill of Lading Act, as amended, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. The carrier shall not make delivery of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns, until the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee

BECHTEL NEVADA FOR USDOE

A-3 RWMS, ZONE 2

NEVADA TEST SITE

MERCURY NV 89023-

MIKE SMITH / (702) 295-7365

CARRIER: ETON / ENVIRO TRANSPORT

CAU: 461 TAML SITE/ TTR

CAR OR VEHICLE INITIALS & NO.

Carrier No.

Route:

No PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Freight	Insurance	Other Charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # <u>60 #59</u> DRIVER NAME <u>FED BLACK TOM CARTER</u> SHIPMENT # DPL99013	61,720 LBS					
Total Pieces			TOTALS:	Kgs	61,720	Lbs		

Section 7 of the Uniform Bill of Lading Act, as amended, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. The carrier shall not make delivery of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns, until the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Signature of Consignor: MIKE SMITH

Signature of Consignee: MIKE SMITH

Job order, reference account, or work order number: C7P05G13

Savings: \$

Label(s) applied:

Placard(s) Required:

IN THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

EM NO	NMFC NO.	NPM NO
148240		

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Acting under contract: DC ACCB 96NV11718

By: ALAN R. MARCHANT

Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

This shipment is for U.S. Department of Energy and is subject to the terms and conditions of the U.S. Government Bill of Lading and to any available special rates of carriage. The carrier shall not make delivery of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns, until the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

The addition on the face hereof and to the back hereof, by the U.S. Government, is subject to the terms and conditions of the U.S. Government Bill of Lading and to any available special rates of carriage.

By:

Date:

4/20/99

Page 1 of 1

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Date: 14-2-99

Purchase/
Customer Order No.

Received subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 007

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # TID # 500974
500794

Route:

Carrier
No.Section 13/12
Tender, No.:

No PKGS.	HM	Description of Articles (Subject to Correction), Kind or Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not be liable for delivery of this shipment without payment of freight and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 62 DRIVER NAME Joe Yelina SHIPMENT # DPL99014	55,770 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding Job order, reference account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 55,770	lbs			

IN THE EVENT OF AN EMERGENCY, PHONE

EM NO	NMFC 100	NPM NO
1	48240	

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Shipping under contract DC AC08 96NV11718 with U.S. Dept. of Energy

By ALAN R. MARCHAND Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

Page 1 of 1

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per:

Date:

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Date: 4-27-99

Purchase/
Customer Order No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR US DOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 008

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # TSD H 50912

Route:

Carrier
No.Section 13712
Tender, No.:

No. PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions. If this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 59 DRIVER NAME Tom Carter SHIPMENT # DPL99015	64,370 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding Job order, reference account, or work order number C7P05G13

Total Pieces

TOTALS:

Kgs

64,370

lbs

IN THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

ITEM NO	NMFC 100-	NPM NO
1	45240	

Remarks:

Placard(s) Required

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Acting under contract: DC AC08 96NV11718

with U.S. Dept. of Energy

By: ALAN R. MARCHAND

Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted.

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per

Date: 4/21/99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE

CAU 461 TAML SITE/ TTR

TONOPAH NV 89049-

Shipper No. NTS073636

Date: 4-21-99

Purchase/
Customer Order No.

Shipment is subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading. The property described below, in apparent good order, except as noted (contents and condition of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is further agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE

A-3 RVMS, ZONE 2

NEVADA TEST SITE

MERCURY NV 89023-

MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 009

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 750 4 500 11

Route:

Carrier
No.Section 13712
Tender, No.:

NO	KGS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 13712 conditions. If this shipment is to be delivered to the consignee without recourse on the carrier, the consignee shall sign the following statement: The carrier shall not be liable for delivery of this shipment without payment of freight and all other lawful charges.
DT			SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # <u>60</u> DRIVER NAME <u>Ted Black</u> SHIPMENT # <u>DPL99016</u>	52,560 LBS				JEFF SMITH Signature of Consignor
Total Pieces TOTALS: Kgs 52,560 lbs								If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the charges dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Job order, reference account, or work order number C7P05G13

THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

NO	NMFC 100-	NPM NO.
43240		

Remarks:

TECHNICAL CONTACT

is to certify that the above named materials are properly classified, packed, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation (Applicable for Hazardous Materials Only.)

Shipper BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Ship under contract DC AC08 96NV11718

with U.S. Dept. of Energy

ALAN R. MARCHAND

Date: 04/08/1999

Alan R. Marchand

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: *Ted Black*

Date: 4-21-99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Purchase/
Customer Order No.

Date: 4-21-99

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is hereby agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 010

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL: TID 4 500-1
5090

Route:

PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 conditions, if this shipment is to be delivered to the consignee without recourse on the part of the consignor shall be the following statement: The carrier shall not be liable for delivery of this shipment without payment of and all other lawful charges
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 81 DRIVER NAME Ted Black SHIPMENT # DPL99017	62,650 LBS				JEFF SMITH Signature of Consignor If freight charges are prepaid, write or stamp here TO BE PREPAID PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in value the agreed or declared value of the property. The agreed or declared value of the property hereby specifically stated by the shipper to be exceeding
Total Pieces			TOTALS:	Kgs	Lbs		

IN THE EVENT OF AN EMERGENCY, PHONE 24 HOURS

EM NO.	NMFC 100.	NPM NO.
48240		

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193
Shipped under contract DC AC08 96NV11718 with U.S. Dept. of Energy
By: ALAN R. MARCHAND Date: 04/08/1999
Signature: Alan R. Marchand
TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted.

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: Ted Black

Date: 6-17-99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS0736:

Purchase
Customer Order No.

Date: 4-15-99

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is further agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every shipment performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

The shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transport of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 011

ETON

CARTON VEHICLE INITIALS & NO.

SEAL # T104 5009

Route:

Carrier
No.Section 13712
Tender, No. 5009

HTS PKGS.	HM	Description of Articles (Subject to Correction); Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section conditions, if this shipment is to be to the consignee recourse on the the consignor shall the following state: The carrier shall delivery of this shipment without payment and all other lawful charges
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 02 DRIVER NAME Jack Gerna SHIPMENT # DPL99018	58,340 LBS				JEFF SMITH Signature of U.S. If freight charges prepaid, write or stamp here "TO BE PRE PREPAID Note: Where the dependent on value, shippers are required state specifically in the agreed or declared value of the property. The agreed or declared value of the property hereby specifically by the shipper to not exceeding Job order, reference account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 58,340	Lbs			Savings:

THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

HT NO	NMFC 100-	NPM NO.
1	48240	

marks:

Placard(s) Rec

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified,
described, packaged, marked, and labeled, and are in proper condition for
transportation according to the applicable regulations of the Department of
Transportation. (Applicable for Hazardous Materials Only.)

Prepared by BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Issued under contract DC AC08 96NV11718 with U.S. Dept. of Energy

ALAN R. MARCHAND

Date: 04/08/1999

Signature of Shipper
TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per Jack Gerna

Date 4-17

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS07363

Purchase/
Customer Order No.

Date: 4-2-99

6-15-99

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporate possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every act to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shopper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transport of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER: ETON / ENVIRO TRANSPORT DEPT

CAU: 012 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 500998

Route:

Carrier
No.Section 13712
Tender, No.

No PKGS.	HM	Description of Articles (Subject to Correction), Kind or Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section conditions, if this shipment is to be to the consignee without recourse on the part of the consignor shall the following state: The carrier shall deliver of this shipment without payment of and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-RGULATED PER 49 CFR 173.403 VEHICLE # <u>68</u> DRIVER NAME <u>Thomas J Carter</u> SHIPMENT # DPL99019	60,898 LBS				JEFF SMITH Signature of Carrier If freight charges are prepaid, write or stamp here "TO BE PREPAID" Note: Where the dependent on value shippers are required to state specifically in the agreed or declared value of the property. The agreed or declared value of the property hereby specifically by the shipper to be exceeding
Total Pieces			TOTALS:	Kgs	60,898	lbs	

IN THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

NMFC NO.	NPM NO.
48240	

Remarks:

Placard(s) Required

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Contract: DC AC08 96NV11718

with U.S. Dept. of Energy

By: ALAN R. MARCHAND

Date: 04/08/1999

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per:

Date:

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

FRIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

per: **BECHTEL NEVADA FOR US DOE**
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. **NTS073636**
 Date: **6-17-99**

Purchase/
 Customer Order No.

(VED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is hereby agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.
 The shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of the shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

signee
BECHTEL NEVADA FOR USDOE
3 RWMS, ZONE 2
EVADA TEST SITE
MERCURY NV 89023-
KE SMITH / (702) 295-7365

CARRIER **ETON / ENVIRO TRANSPORT OF NV**

CAU: 013

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # **500966**

ite:

S.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 conditions, if this shipment is to be delivered to the consignee without recourse on the part of the consignor shall be the following system: The carrier shall not be liable for delivery of this shipment without payment of freight and all other lawful charges
1		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 81 DRIVER NAME Ted Black SHIPMENT # DPL99020	54,910 lbs				JEFF SMITH Signature of Consignor If freight charges are prepaid, write or state here: TO BE PREPAID PREPAID Note: Where the rate dependent on value shippers are required to state specifically in value the agreed or declared value of the property. The agreed or declared value of the property hereby specifically stated by the shipper to be exceeding

Total Pieces

TOTALS:

Kgs

54,910 lbs

THE EVENT OF AN EMERGENCY PHONE

NO	NMFC 100-	NPM NO.
1	48240	

marks:

INITIAL CONTACT

is to certify that the above named materials are properly classified, marked, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation (Applicable for Hazardous Materials Only.)

per: **BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193**

under contract **DC AC08 96NV11718** with U.S. Dept. of Energy

ALAN R. MARCHAND Date: **04/08/1999**

Transportation Dept. - Permanent Post Office Address of Shipper
 Page 1 of 1

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: **ETON / ENVIRO TRANSPORT OF NV**

Per **Ted Black**

Date: **6-18-**

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE

CAU 461 TAML SITE/ TTR

TONOPAH NV 89049-

Shipper No. NTS073636

Date: 6-17-99

Purchase/
Customer Order No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is hereby agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE

3 RWMS, ZONE 2

NEVADA TEST SITE

MERCURY NV 89023-

MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 015

ETON

CAR OR VEHICLE INITIALS & NO.

Carrier
No.Section 13712
Tender, No.:

SEAL # 500986

Route:

GS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 68 DRIVER NAME Thomas J. Carter SHIPMENT # DPL99022	5516.85				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding Job order, reference account, or work order number C7P05G13

Total Pieces

TOTALS:

Kgs

5516.85

lbs

IN THE EVENT OF AN EMERGENCY, PHONE

24 HOURS

NMFC 100-

NPM NO.

148240

MARKS:

NICAL CONTACT

is to certify that the above named materials are properly classified, packed, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation (Applicable for Hazardous Materials Only.)

at BECHTEL NEVADA, P O BOX 95521, LAS VEGAS, NV 89193

under contract DC ACC8 96NV11718

with U.S. Dept. of Energy

ALAN R. MARCHAND

Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

The addition on the face hereof and to the terms and conditions are hereby noted.

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per

Date: 6/18/99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE

CAU 461 TAML SITE/ TTR

TONOPAH NV 89049-

Shipper No. NTS073636

Date: 6-17-91

Purchase/

Customer Order No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee

BECHTEL NEVADA FOR USDOE

A-3 RWMS, ZONE 2

NEVADA TEST SITE

MERCURY NV 89023-

MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 016

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 500955

Route:

No PKGS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 13712 Tender, No.:
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 81 DRIVER NAME Ted Black SHIPMENT # DPL99023	50,160 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property hereby specifically stated by the shipper to be exceeding Job order, reference account, or work order number

Total Pieces

TOTALS:

Kgs

50,160 lbs

IN THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

EM NO	NMFC 100-	NPM NO
1	48240	

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Shipping under contract DC AC08 96NV11718 with U.S. Dept. of Energy

By ALAN R. MARCHAND

Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per

Ted Black

Date: 6-21

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Date: 6-17-99

Purchase/
Customer Order No. 55

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER: ETON / ENVIRO TRANSPORT OF NV

CAU: 017

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 500949

Route:

Carrier
No.Section 13712
Tender, No.:

PKGS.	HM	Description of Articles (Subject to Correction), Kind or Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 1 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the following statement: The carrier shall not be liable for delivery of this shipment without payment of freight and all other lawful charges.
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 68 DRIVER NAME Tom Carter SHIPMENT # DPL99024	69260 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to exceed Job order, reference, account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 69260	Lbs			Savings:

THE EVENT OF AN EMERGENCY PHONE

24 HOUR

M NO	NMFC 100-	NPM NO
1	48240	

Remarks:

Label(s) applied

Placard(s) Required

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Shipping under contract DC AC08 96NV11718 with U.S. Dept. of Energy

By: ALAN R. MARCHAND Date: 04/08/1999

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per:

Date: 6/1/99

Page: 1 of 1

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS0736:

Date: 6-17-99

Purchase Order No. 1
Customer Order No. 1

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below in this Bill of Lading, except as noted (contents and conditions of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party, that every sea, air, land, or rail shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, and that in the classification or tariff which governs the transport of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee

BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 018 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 500921

Route:

No. PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section conditions. If this shipment is to be to the consignee recourse on the consignor shall be the following state: The carrier shall delivery of this shipment without payment and all other law charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 81 DRIVER NAME Ted Black SHIPMENT # DPL99025	63,490 LBS				JEFF SMITH Signature of Consignor If freight charges prepaid, write on here "TO BE PREPAID" Note: Where the dependent on via shippers are required state specifically the agreed or declared value of the property. The agreed or declared value of the property hereby specified by the shipper to exceeding
Total Pieces			TOTALS:	Kgs	63,490	Lbs	C7P05G:3

IN THE EVENT OF AN EMERGENCY, PHONE

ITEM NO.	NMFC 100-	NPM NO.	Label(s) applied
1	48240		

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 103.3)

XI YES NO

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: Ted Black

Date: 6-22

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Acting under contract DC AC08 96NV11718 with U.S. Dept. of Energy

Per: ALAN R. MARCHAND Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS07: 36

Purchase Order No. _____
Customer Order No. _____

Date: 06/21/99

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described herein is apparent good order, except as noted (contents and contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every delivery to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if by rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 019 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 5009

Route:

NO PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Special Conditions, if shipment is to be delivered to the consignee without recourse on the following: The carrier delivery of this shipment without pay and all other charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 68 DRIVER NAME Tom Carter SHIPMENT # DPL99026	70790 LBS	500			JEFF SMITH Signature If freight charges prepaid, write here "TO BE PREPAID" Note: When dependent charges are specified, the agreed value of the shipment hereby specified by the shipper exceeding the value of the shipment as stated on the bill of lading is hereby specified by the shipper exceeding the value of the shipment as stated on the bill of lading.

Total Pieces

TOTALS:

Kgs

70790

lbs

IN THE EVENT OF AN EMERGENCY, PHONE 702-295-7365 24 HOURS

ITEM NO.	NMFC 100-	NPM NO.
1	48240	

Remarks:

TECHNICAL CONTACT:

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Acting under contract: DC AC08 98NV11718 with U.S. Dept. of Energy

Per: ALAN R. MARCHAND Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges payable by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted.

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: [Signature] Date: 6/21/99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS07363

Purchase Order No.
Customer Order No.

Date: 6/22/99

Shipment is subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading. The property described below is to be transported in good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporate possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every act to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shopper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transport of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 020 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 500984

Route:

NO PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Sector conditions, if this shipment is to be to the consignee's recourse on the carrier the following state: The carrier shall delivery of this shipment without payment and all other laws charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 76 DRIVER NAME Darrel Minton SHIPMENT # DPL99027	67580 LBS				JEFF SMITH Signature of Carrier If freight charges prepaid, write or state here "TO BE PREPAID" PREPAID Note: Where the dependent on value shippers are required to state specifically in the agreed or declared value of the property. The agreed or declared value of the property hereby specified, by the shipper to exceed
Total Pieces			TOTALS:	Kgs	67580	Lbs	Savings:

IN THE EVENT OF AN EMERGENCY PHONE

ITEM NO	NMFC 100-	NPM NO
1	48240	

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Acting under contract DC AC08 96NV11718 with U.S. Dept. of Energy

Per ALAN R. MARCHAND Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: Darrel Minton Date: 6/22/99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-Purchase/
Customer Order No.

Shipper No. NTS07363

Date: 06/21/99

Received, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time intervening, that every service performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 021

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 500962

Route:

NO KGS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section conditions, if this shipment is to be delivered to the consignee without recourse on the carrier's part, the consignor shall the following statement: The carrier shall not be liable for delivery of this ship without payment of and all other lawful charges
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 68 DRIVER NAME Tom Carter SHIPMENT # DPL99028	58200 LBS				JEFF SMITH Signature of Consignor If freight charges are prepaid, write or state here "TO BE PREP PREPAID Note: Where the rate is dependent on value, the shipper is required to state specifically in the agreed or declared value of the property. The agreed or declared value of the property hereby specifically by the shipper to be exceeding
Total Pieces		TOTALS:	Kgs 58200	Lbs			

THE EVENT OF AN EMERGENCY PHONE

NO	NMFC 100-	NPM NO.	Label(s) applied
1	48240		

MARKS:

TECHNICAL CONTACT

is to certify that the above named materials are properly classified,
described, packaged, marked, and labeled, and are in proper condition for
transportation according to the applicable regulations of the Department of
Transportation. (Applicable for Hazardous Materials Only.)

per BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

under contract DC AC08 96NV11718

with U.S. Dept. of Energy

ALAN R. MARCHAND

Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the
carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Govern-
ment and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of
Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

The addition on the face hereof and to the terms and conditions are hereby noted.

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: [Signature]

Date: 6/22/99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE

CAU 461 TAML SITE/TTR

TONOPAH NV 89049-

Shipper No. NTS073638

Date: 06/22/99

Purchase/
Customer Order No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 022

ETON

580978

CAR OR VEHICLE INITIALS & NO.

SEAL #

Route:

Carrier
No.Section 13/12
Tender, No.:

No PKGS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section conditions, if this shipment is to be carried to the consignee without recourse on the carrier's part the consignor shall the following statement: The carrier shall not be delivery of this shipment without payment of and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 68 DRIVER NAME Thomas Carter SHIPMENT # DPL99029	60080 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be exceeding Job order, reference account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 60080	lbs			Savings:

IN THE EVENT OF AN EMERGENCY, PHONE

24 HOUR

EM NO NMFC 100-

NPM NO.

1 48240

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified,
described, packaged, marked, and labeled, and are in proper condition for
transportation according to the applicable regulations of the Department of
Transportation. (Applicable for Hazardous Materials Only.)

Shipper BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Shipping under contract DC AC08 96NV11718

with U.S. Dept. of Energy

Per ALAN R. MARCHAND

Date: 04/08/1999

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the
carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Govern-
ment and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of
Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per

Date: 6/22/99

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE

CAU 461 TAML SITE/ TTR

TONOPAH NV 89049-

Shipper No. NTS07363

Date: 06/22/99

Purchase Order No.

Customer Order No.

ELIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below is accepted for transport, except as noted (contents and condition of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is further agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party of interest in all or any of said property, that every service performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE

-3 RWMS, ZONE 2

EVADA TEST SITE

MERCURY NV 89023-

MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 023

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 500923

Rate:

Carrier
No.Section 13712
Tender, No.:

SS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section of conditions, if this shipment is to be covered to the consignee without recourse on the consignor, the consignor shall state the following state: The carrier shall not be liable for delivery of this shipment without payment of freight and all other lawful charges.
OT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 76 DRIVER NAME Daryl Minton SHIPMENT # DPL99030	64080 LBS				JEFF SMITH Signature of Consignor If freight charges are prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the dependent on value shippers are required to state specifically in the agreed or declared value of the property. The agreed or declared value of the property hereby specifically by the shipper to be exceeding

Total Pieces

TOTALS:

Kgs

64080

lbs

IN THE EVENT OF AN EMERGENCY, PHONE

O NMFC 100-

NPM NO.

1 48240

Remarks:

VICAL CONTACT

to certify that the above named materials are properly classified, labeled, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

under contract DC AC08 96NV11718

with U.S. Dept. of Energy

ALAN R. MARCHANT

Date: 04/08/1999

Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per Daryl Minton

Date 6/22/99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE

CAU 461 TAML SITE/ TTR

TONOPAH NV 89049-

Shipper No. NTS0736

Date: 06/22/99

Purchase Order No. 723
Customer Order No. 723

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described herein is being transported by motor carrier, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood to mean the carrier or carriers who are the carriers of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party to the contract, that every such shipment shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if the shipment is by rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee

BECHTEL NEVADA FOR USDOE

A-3 RWMS, ZONE 2

NEVADA TEST SITE

MERCURY NV 89023-

MIKE SMITH / (702) 295-7365

CARRIER: ETON / ENVIRO TRANSPORT OF NV

CAU: 024

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 580992

Route:

Carrier No.

No. PKGS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Sec: conditions, if shipment is to be recourse on the the consignor's delivery of this without payment and all other is charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # <u>Bum 67 81</u> DRIVER NAME <u>Ted Black</u> SHIPMENT # DPL99031	57170 LBS				JEFF SMITH Signature of If freight charge prepaid, write here "TO BE PREPAID" Note: Where dependent on value of the shipment, the agreed or declared value of the property hereby specified by the shipper exceeding Job order, refer account, or work number C7P05G13
Total Pieces		TOTALS:	Kgs 57170	lbs			Savings:

IN THE EVENT OF AN EMERGENCY PHONE

ITEM NO.	NMFC 100-	NPM NO.
1	48240	

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Acting under contract: DC AC08 96NV11718

with U.S. Dept. of Energy

Per: ALAN R. MARCHAND

Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

[X] YES [] NO

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: Ted Black

Date: 6.23

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Purchase/
Customer Order No.

Date: 06/22/99

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this bill as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 025 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 50092.

Route:

No. PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions. If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 68 DRIVER NAME Tom Eton Carter SHIPMENT # DPL99032	57540 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding Job order, reference account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 67540	lbs			Savings:

THE EVENT OF AN EMERGENCY, PHONE:

MINO NMFC 100-
1 48240

NPM NO.

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Prepared by: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Signed under contract: DC AC08 96NV11718 with U.S. Dept. of Energy

ALAN R. MARCHAND

Date: 04/08/1999

TRANSPORTATION DEPT. Permanent Post Office Address of Shipper

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

In addition on the face hereof and to the terms and conditions are hereby noted.

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per:

Date: 6/25/99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS07363

Date: 06/23/99

Purchase/
Customer Order No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every act to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

*CAU: 026 * *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 580991

Route:

Carrier
No. Section 13/12
Tender, No.:

No. PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section conditions, if this shipment is to be covered to the consignee without recourse on the consignor the consignor shall the following statement: The carrier shall not be delivery of this shipment without payment of freight and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 81 DRIVER NAME TED BLACK SHIPMENT # DPL99033	63810 LBS				JEFF SMITH Signature of Carrier If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the charges are dependent on value, the shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding Job order, reference account, or work order number C7P05G13 Savings: \$ Label(s) applied
Total Pieces		TOTALS:	Kgs 63810	lbs			

THE EVENT OF AN EMERGENCY PHONE 24 HOUR

M NO	NMFC 100-	NPM NO.
48240		

marks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified,
described, packaged, marked, and labeled, and are in proper condition for
transportation according to the applicable regulations of the Department of
Transportation. (Applicable for Hazardous Materials Only.)

Prepared by: BECHTEL NEVADA, P. O. BOX 98521, LAS VEGAS, NV 89193

Working under contract: DC AC08 96NV11718

with U.S. Dept. of Energy

By: ALAN R. MARCHAND

Date: 04/08/1999

Per: [Signature] TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the
carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government
and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of
Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: [Signature]

Date: 6-24-99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

SHIPPER: BECHTEL NEVADA FOR US DOE

CAU 461 TAML SITE/ TTR

TONOPAH NV 89049-

Shipper No. NTS07363

Date: 06/23/99

Purchase/
Customer Order No.

GIVEN, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporate entity) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is further agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

SHIPPER hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 027

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 500951

DATE:

Carrier
No.Section 13712
Tender, No.:

Q	HS	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 76 DRIVER NAME Darryl Minton SHIPMENT # DPL99034	62310 LBS				JEFF SMITH Signature of Consignor If freight charges are prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the value is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property hereby specifically agreed by the shipper to be exceeding Job order, reference account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs	62310	Lbs		Savings:

IN THE EVENT OF AN EMERGENCY, PHONE

24-HOUR

Q	NMFC 100-	NPM NO.
1	48240	

MARKS:

Placard(s) Required

TECHNICAL CONTACT

It is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation (Applicable for Hazardous Materials Only.)

SHIPPER: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Contract under contract DC AC08 96NV11718 with U.S. Dept. of Energy

ALAN R. MARCHANT

Date: 04/08/1999

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: Darryl Minton

Date: 6/24/99

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Purchase Order No.
Customer Order No.

Date: 06/23/99

RECEIVED. Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 028 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 500915

Route:		Carrier No.		Section 13712 Tender, No.:					
NO PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)		Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions. If this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not be liable for delivery of this shipment without payment of freight and all other lawful charges.	
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403		63820 LBS				JEFF SMITH Signature of Consignee	
		VEHICLE # 76						If freight charges are to be prepaid, write or stamp here "TO BE PREPAID"	
		DRIVER NAME Darryl Minton						PREPAID	
		SHIPMENT # DPL99035						Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding	
Total Pieces		TOTALS:		Kgs 63820	lbs			C7P05G13	

IN THE EVENT OF AN EMERGENCY PHONE

24 HOUR

ITEM NO.	NMFC 100-	NPM NO.		
1	48240			

Remarks:

*Placard(s) Required

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Acting under contract DC AC08 96NV11718 with U.S. Dept. of Energy

Per ALAN R. MARCHAND Date: 04/08/1999

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per Darryl Minton Date 6/23/99

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Date: 06/24/99

Purchase Order No.
Customer Order No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 029

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 500999

Route:

No	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions. If this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 81 DRIVER NAME Ted Black SHIPMENT # DPL99036	61660 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to not exceed *Job order, reference account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 61660	Lbs			Savings:

THE EVENT OF AN EMERGENCY, PHONE

INC	NMFC 100-	NPM NO.
1	48240	

marks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Shipping under contract DC AC08 96NV11718 with U.S. Dept. of Energy

By: ALAN R. MARCHANT

Date: 04/08/1999

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted.

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: Ted Black

Date: 6-2-99

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

Page 1 of 1

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073633

Date: 06/25/99

Purchase/
Customer Order No.

RECEIVED: Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 030 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 500981

Route:

Carrier
No.Section 13712
Tender, No.:

No PKGS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 13712 conditions, if this shipment is to be delivered to the consignee without recourse on the consignee the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 76 DRIVER NAME Darryl Minton SHIPMENT # DPL99037	56140 LBS				JEFF SMITH Signature of Consignee If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the charges are dependent on value, shippers are required to state specifically the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to not exceed Job order, reference account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 56140	lbs			Savings:

IN THE EVENT OF AN EMERGENCY PHONE

24 HOUR

TEM NO	NMFC 100-	NPM NO		
1	48240			

Remarks:

Placard(s) Required

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Shipping under contract OC AC08 96NV11718 with U.S. Dept. of Energy

Per ALAN R. MARCHAND Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per

Date

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Purchase/
Customer Order No.

Date: 06/25/99

Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 031 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 500991

Route:

Carrier
No.Section 13/12
Tender, No.:

No. KGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other law- charges
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 81 DRIVER NAME TED BLANK SHIPMENT # DPL99038	55610 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specified by the shipper to be exceeding
Total Pieces		TOTALS:	Kgs 55610	Lbs			Savings: \$

THE EVENT OF AN EMERGENCY, PHONE

NO	NMFC 100-	NPM NO.
1	48240	

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified,
described, packaged, marked, and labeled, and are in proper condition for
transportation according to the applicable regulations of the Department of
Transportation. (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA; P.O. BOX 98521, LAS VEGAS, NV 89193

Shipment under contract DC AC08 96NV11718 with U.S. Dept. of Energy

By ALAN R. MARCHAND Date: 04/08/1999

Alan R. Marchand
TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the
carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government
and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of
Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per:

Ted Blank

Date

11-2

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE

CAU 461 TAML SITE/ TTR

TONOPAH NV 89049-

Shipper No. NTS073636

Date: 06/25/99

Purchase/
Customer Order No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party of any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee

BECHTEL NEVADA FOR USDOE

A-3 RWMS, ZONE 2

NEVADA TEST SITE

MERCURY NV 89023-

MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

*CAU: 032 * *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 500995

Route:

Carrier
No.Section 13712
Tender, No.:

No PK33	HM	Description of Articles (Subject to Correction), Kind or Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions. If this shipment is to be delivered to the consignee without recourse on the consignee the consignor shall sign the following statement: The carrier shall not be liable for delivery of this shipment without payment of freight and all other lawful charges.
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 68 DRIVER NAME Thomas Carter SHIPMENT # DPL99039	58,720 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding Job order, reference account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs 58,720	lbs			Savings: \$

IN THE EVENT OF AN EMERGENCY PHONE

ITEM NO.	NMFC 100-	NPM NO.
1	48240	

Remarks:

Placard(s) Required

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Acting under contract DC AC08 96NV11718

with U.S. Dept. of Energy

Per ALAN R. MARCHAND

Date: 04/08/1999

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: Thomas Carter Date: 6/25/99

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS07363

Date: 6-29-99

Purchase/
Customer Order No.

Shipment is subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading. The property described below, in apparent good order, except as noted (contents and condition of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is further agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every carrier performing hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. The shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transport of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Signee
BECHTEL NEVADA FOR USDOE
3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
KE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

*CAU: 033 *

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 500907

te:

Carrier
No.

Section 13/12
Tender, No.:

HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 c: conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not be liable for delivery of this shipment without payment of freight and all other lawful charges
T	SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # 76 DRIVER NAME <u>Darryl Minton</u> SHIPMENT # DPL99040	WON 6 244 54,550 56,250 56,250				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____ Job order, reference account, or work order number C7P05G13
Total Pieces		TOTALS:	Kgs	lbs		
			56,250	54,550		

Total Pieces

TOTALS:

Kgs

lbs

EVENT OF AN EMERGENCY PHONE

NMFC 100-
3240

NPM NO.

CONTACT

Verify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transport according to the applicable regulations of the Department of Energy (Applicable for Hazardous Materials Only.)

BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Contract DC AC08 96NV11718

with U.S. Dept. of Energy

MARCHAND

Date: 04/08/1999

PORTATION DEPT. - Permanent Post Office Address of Shipper

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

[X] YES -- NO

The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per

Darryl Minton

Date

6/29/99

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - Not Negotiable

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89049-

Shipper No. NTS073636

Purchase/
Customer Order No.

Date: 06-28-99

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 034 *ETON*

CAR OR VEHICLE INITIALS & NO.

SEAL # 500997

Route:

Carrier
No.Section 13712
Tender, No.:

No PKGS.	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges
1 DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-RGULATED PER 49 CFR 173.403 VEHICLE # 81 DRIVER NAME TED BLACK SHIPMENT # DPL99041	58.550 LBS				JEFF SMITH Signature of Consignor If freight charges are to be prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to not exceeding Job order, reference account, or work order number C7P05G13

Total Pieces

TOTALS:

Kgs

58.550

lbs

IN THE EVENT OF AN EMERGENCY, PHONE 24 HOURS

ITEM NO.	NMFC 100-	NPM NO.
1	48240	

Remarks:

TECHNICAL CONTACT

This is to certify that the above named materials are properly classified,
described, packaged, marked, and labeled, and are in proper condition for
transportation according to the applicable regulations of the Department of
Transportation. (Applicable for Hazardous Materials Only.)

Shipper: BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Acting under contract DC AC08 96NV11718 with U.S. Dept. of Energy

Per: ALAN R. MARCHAND Date: 04/08/1999

TRANSPORTATION DEPT. - Permanent Post Office Address of Shipper

*This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the
carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Govt
and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of
Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

*The addition on the face hereof and to the terms and conditions are hereby noted:

Carrier: ETON / ENVIRO TRANSPORT OF NV

Per: Ted Black

Date: 6-28-99

Shipper: BECHTEL NEVADA FOR US DOE
CAU 461 TAML SITE/ TTR
TONOPAH NV 89048-

Shipper No. NTS073636

Date: 6-28-99

Purchase/
Customer Order No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as shown below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consignee
BECHTEL NEVADA FOR USDOE
A-3 RWMS, ZONE 2
NEVADA TEST SITE
MERCURY NV 89023-
MIKE SMITH / (702) 295-7365

CARRIER ETON / ENVIRO TRANSPORT OF NV

CAU: 035

ETON

CAR OR VEHICLE INITIALS & NO.

SEAL # 501000 S 985

Route: Carrier No. Section 13712 Tender, No.:

GS	HM	Description of Articles (Subject to Correction), Kind of Package, Special Marks and Exceptions (See NMFC Item (Rule) 360)	Weight (Subject to Correction)	Class	Rate	Charges	Subject to Section 7 of conditions. If this shipment is to be delivered to the consignee without recourse on the carrier, the consignor shall, in the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
DT		SOIL-RADIOACTIVELY CONTAMINATED NOT-REGULATED PER 49 CFR 173.403 VEHICLE # <u>68</u> DRIVER NAME <u>Thomas Carter</u> SHIPMENT # DPL99042	59,620 LBS				JEFF SMITH Signature of Consignor If freight charges are prepaid, write or stamp here "TO BE PREPAID" PREPAID Note: Where the rate dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding Job order, reference, account, or work order number C7P05G13

Total Pieces

TOTALS:

Kgs

59620

Lbs

EVENT OF AN EMERGENCY, PHONE

NMFC 100-48240

NPM NO.

S:

Placard(s) Required

CONTACT

certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for shipment according to the applicable regulations of the Department of Transportation. (Applicable for Hazardous Materials Only.)

BECHTEL NEVADA, P.O. BOX 98521, LAS VEGAS, NV 89193

Contract DC AC08 96NV11718

with U.S. Dept. of Energy

R. MARCHAND

Date: 04/08/1999

SPORTATION DEPT. - Permanent Post Office Address of Shipper

This shipment is for U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the U.S. Government and is subject to the terms and conditions set forth in the standard form of the U.S. Government Bill of Lading and to any available special rates or charges (41 CFR 109-40.50 and 41 CFR 40.3)

☒ YES ☐ NO

The addition on the face hereof and to the terms and conditions are hereby noted.

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APPENDIX H

NDEP COMMENT RESPONSE

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DOCUMENT REVIEW SHEET

Document Title/Number: Draft SAFER Closure Report, Corrective Action Unit 461, Joint Test Assembly Sites, TTR, Nevada
 Document Date: August 1999
 Revision Number: 0
 Originator: Jeff Smith, BN (295-7775)
 Date Comments Due: September 13, 1999
 Reviewer/Organization: Michael McKinnion, NDEP

Comment Number/ Location	Type ^a	Comment	Comment Response	Accept
1) Pg. 12, Table 1, 7th row, 2nd column	M	<i>"...DU not an airborne hazard..."</i> DU can be an airborne hazard depending on several factors, e.g., amount of oxidation present, wind velocity, distance to receptor, etc. Since these factors were not addressed in the Record of Technical Change, this statement may not be correct. NDEP requires additional justification on this point prior to approving the final document.	<p>Extensive air monitoring was conducted during the field activities. A continuous air monitor (CAM) and breathing zone air (BZA) samplers were running during field operations. The filters from these monitoring devices were counted on a daily basis. No elevated radiological readings were detected on any filter. In addition, nasal swipes were collected from the field personnel and these also had no elevated readings. The soil pile was checked on a daily basis during field activities and on a weekly basis when the field work was shut down. The crusted soil was never observed to have soil particles entrained by the wind.</p> <p>The Table 1 of the report has been modified to read as follows: <i>DU was determined not to be an airborne hazard based on the continuous air monitoring filter data collected during the excavation activities. In addition, no elevated DU levels were detected in any on-site personnel's BZA filter or nasal swipe.</i></p>	Yes

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