02.08-10/04/93-01603

DEPARTMENT OF THE NAVY ATLANTIC DIVISION, NAVAL FACILITIES ENGINEERING COMMAND NAVAL STATION, NORFOLK, VIRGINIA

NEESA RAC Contract No. N47408-92-D-3042

Date:

V

N62470-93-B-3801 NAVFAC Specification No. 05-93-3801

Appropriation: DERA

TIME CRITICAL REMOVAL ACTION, SITE 6, OPERABLE UNIT NO. 2

AT THE

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

Design by:

BAKER ENVIRONMENTAL, INC. **AIRPORT OFFICE PARK, BUILDING 3** 420 ROUSER ROAD **CORAOPOLIS, PENNSYLVANIA 15108**

Specification Prepared by:

BAKER ENVIRONMENTAL, INC.

Specification Approved by:

Specification Branch Head: M. D. Mutter, P.E. **Engineering and Design Division Director:** W. H. Crone, P.E **Environmental Quality Division Director:** W. H. Russell / P.E. 10/4/93

05-93-3801

TABLE OF CONTENTS

.

.

..

INTE	RODUCTION	1
BAC	KGROUND	1
1.0	MOBILIZATION AND PREPARATORY WORK	3
2.0	MONITORING, SAMPLING, TESTING, AND ANALYSIS	3
3.0	SITE WORK	4
4.0		4
5.0	SURFACE WATER COLLECTION AND CONTROL	4
6.0	GROUNDWATER COLLECTION AND CONTROL	4
7.0	AIR POLLUTION COLLECTION AND CONTROL	4
8.0	SOLIDS COLLECTION AND CONTAINMENT	4
9.0	LIQUID, SEDIMENT, AND SLUDGE COLLECTION AND CONTAINMENT	5
10.0	DRUMS, TANKS, AND MISCELLANEOUS DEMOLITION AND DISPOSAL	5
11.0	BIOLOGICAL TREATMENT	6
12.0	CHEMICAL TREATMENT	6
13.0	PHYSICAL TREATMENT	6
14.0	THERMAL TREATMENT	6
15.0	STABILIZATION, FIXATION, AND ENCAPSULATION	6
16.0	•••••••••••••••••••••••••••••••••••••••	6
17.0	DECONTAMINATION AND DECOMMISSIONING	6
18.0	DISPOSAL (OTHER THAN COMMERCIAL)	6
19.0	DISPOSAL (COMMERCIAL)	7
20.0	SITE RESTORATION	
21.0	DEMOBILIZATION	7

Page

BASIS OF DESIGN REMOVAL ACTION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

INTRODUCTION

The primary objective of this project is to remove, transport, and dispose of all drums, storage tanks, and containers located at Site 6, Operable Unit No. 2 (OU No. 2). The scope of this project includes the removal, transportation and disposal of all surficial and buried drums, storage tanks, containers, their associated contents, and any impacted soils. These drums, storage tanks, and containers are suspected to be either sources or potential sources of contamination.

The following sections of this basis of design describe the removal action by hazardous, toxic, and radiological waste account, as defined by the Remedial Action Delivery Order Requirements Package Guide, NEESA 20.2-062 of June 1992.

BACKGROUND

Marine Corps Base (MCB), Camp Lejeune, North Carolina was placed on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List (NPL) that became effective on October 4, 1989 (54 Federal Register 41015, October 4, 1989). The United States Environmental Protection Agency (USEPA) Region IV, the North Carolina Department of Environment, Health and Natural Resources (NC DEHNR) and the United States Department of the Navy (DoN) then entered into a Federal Facilities Agreement (FFA) for Marine Corps Base, Camp Lejeune. The primary purpose of the FFA was to ensure that environmental impacts associated with past and present activities at the Marine Corps Base were thoroughly investigated and appropriate CERCLA response/ Resource Conservation and Recovery Act (RCRA) corrective action alternatives were developed and implemented as necessary to protect public health and the environment.

OU No. 2 is located approximately 1.75 miles east of the New River and 2 miles south of State Route 24 on the mainside portion of MCB Camp Lejeune. The unit is bordered by Holcomb Boulevard on the west, Sneads Ferry Road on the south, Piney Green Road on the east, and by Wallace Creek on the north. Camp Lejeune Railroad operates rail lines parallel to Holcomb Boulevard bordering OU No. 2 on the west. OU No. 2 covers an area of approximately 210 acres. OU No. 2 consists of three sites: Sites 6, 9, and 82.

Site 6 is bounded on the north by Site 82, by Piney Green Road on the east, by Site 9 on the south, and by Holcomb Boulevard on the west. Site 6 covers an area of approximately 177 acres that incorporates Storage Lots 201 and 203, the wooded area between the storage lots, and a ravine, which begins at Site 6 and bisects Site 82. Three surface water bodies are associated with Site 6: Wallace Creek, Bear Head Creek, and a ravine located in the wooded area north of Lot 203 that drains to Wallace Creek.

Open Storage Lot 201 (Lot 201) is a fenced lot located in the south-central portion of Site 6. It is a flat area with sparse vegetation around the fence lines. Open Storage Lot 203 (Lot 203) is a fenced lot located in the northern portion of Site 6 covering approximately 46 acres. Lot 203 is a relatively flat area with elevation differences of approximately five feet. The ground surface is comprised of both naturally existing soil and fill material. Lot 203 is bordered by Site 82, Piney Green Road to the east, woods to the south, and by Holcomb Boulevard to the west. Lot 203 is currently inactive.

Approximately 200 drums and containers are present at Site 6. The majority of the drums, if labeled, were identified as containing lubricants, petroleum products, or corrosives. Empty storage tanks are also located at Site 6. They were labeled as containing diesel fuel, gasoline, and kerosene (Baker, 1992).

Woods and open fields surround both Storage Lots 201 and 203 and make up the remaining area of Site 6. The topography of the wooded areas is relatively flat, but localized trenching and mounding is visible just north of Lot 203 and west of Piney Green Road. The wooded areas are randomly littered with debris including spent ammunition casings, and empty or rusted drums. Markings were observed on a few drums (most drums did not contain marking due to their condition and age) located north of Lot 203. These drums were marked as "lubrication oils." Many of the drums observed were only shells or fragments of drums (Baker, 1992).

Site 6 has a long history of various uses including the disposal and storage of wastes and supplies. Lot 203 has been used as a disposal area since the 1940s. There is little documentation on the disposal activities at this lot. Lot 203 in not currently active as a storage or disposal area, but the ground surface is littered with various debris. Lot 203 was also used for the storage and disposal of radio and communication parts, shredded tires, lubricants, petroleum products, corrosives, expended demolition kit training materials, ordnance, sheet metal debris, wire cables, and wooded pallets.

Lot 203 is currently fenced. From historical photographs, it appears that the fenced boundaries have changed since the lot was in operation.

1.0 MOBILIZATION AND PREPARATORY WORK

Mobilization involves the acquisition, delivery, and setup of equipment, material, and personnel to the work site that are necessary to accomplish the Removal Action scope of work.

2.0 MONITORING, SAMPLING, TESTING, AND ANALYSIS

The Contractor shall submit both a site sampling and analysis plan (SAP) and a work plan describing the Contractor's sampling, analytical, and quality control procedures for the performance of work required under these specifications. The work plan shall include a summary of work to be performed, an Environmental Protection Plan, a Chemical Quality Management Plan (CQMP), the project organization, and any required catalog data. The CQMP shall ensure that all chemical data generated are scientifically accurate and legally defensible. The SAP shall detail sample quantities, acquisition procedures and data collection methods to be employed during the removal action. The type and quantity of testing shall be based on the requirements set forth in the specifications and both the Contractor's health and safety plan (HASP) and air monitoring plan. Additional monitoring, sampling, testing and analyses shall be carried out as required during the project with the approval of the Navy's Technical Representative.

The Contractor shall also submit documentation that certifies testing laboratory qualifications. The testing laboratory must meet the requirements set forth in the Basic Contract and be NEESA certified.

The Contractor shall adhere to all EPA chain-of-custody procedures during the collection, transport, and analyses of all samples. The Contractor will arrange laboratory analyses of all samples to conform with NEESA Level C Quality Assurance Requirements.

3.0 SITE WORK

Site work includes all clearing and grubbing, fencing, roadway and equipment staging area preparation. Clearing and grubbing will be limited to approximately 1.0 acre of the excavation areas. Trees greater than 3 inches in diameter will be cut and stored in the wooded areas.

The excavation access road and equipment staging areas, noted on site plan drawings, shall be covered with crushed gravel.

Fencing construction will include the installation of chain link, silt, and safety fencing.

4.0 (NOT USED)

The current HTRW Work Breakdown Structure has not assigned an account to Section 4.0.

5.0 SURFACE WATER COLLECTION AND CONTROL

No surface water collection and control is anticipated for this project.

6.0 GROUNDWATER COLLECTION AND CONTROL

No groundwater collection and control is anticipated for this project.

7.0 AIR POLLUTION COLLECTION AND CONTROL

Investigations to date have detected evidence of volatile contamination in the northern proposed excavation areas. Therefore, the excavation, transportation, and backfilling activities shall include PID monitoring. Soil, haul roads, and other areas disturbed by operations will be treated with water as a dust suppressant.

8.0 SOLIDS COLLECTION AND CONTAINMENT

The excavation of buried drums and associated contaminated soil will be performed with ordinary earth moving equipment, such as excavators and front-end loaders. Excavation will proceed in such a way as to allow segregation of contaminated and non-contaminated soil. The areas of contamination to be excavated are primarily based on the results of an aerial photographic investigation conducted by the USEPA's Environmental Photographic Interpretation Center and a remedial investigation completed in March 1993 by Baker Environmental, Inc. The estimated in-place volume of drum-containing trenches is 310 cubic yards, based on 141 linear feet of $10' \times 5'$, 6' or 8' trench, as indicated on the drawings.

Once the Contractor has excavated the specified limits of the trenches, an on-site analysis consisting of a visual inspection will be performed on the surrounding soil. If the visual inspection reveals evidence of additional drums or visually contaminated soil, the Contractor will consult with the Navy's Technical Representative to determine an additional amount of excavation.

The Contractor shall provide a bermed and lined soil containment area, as specified in Section 02220 of the Guideline Technical Specifications. Visually contaminated soil shall be stockpiled separately. Non-contaminated soil shall be stored temporarily, analyzed, certified to be free from contaminants, retrieved, and placed in the trench for use as backfill.

General construction debris encountered in the excavation areas shall be stockpiled for disposal at a North Carolina approved landfill.

9.0 LIQUID, SEDIMENT, AND SLUDGE COLLECTION AND CONTAINMENT

The Contractor shall provide a decontamination pad to collect liquids from the decontamination of personnel and equipment. A separate area designated for the rinsing and decontamination of drums, storage tanks and containers will be provided within the drum containment area. The resulting fluids will be collected in a tank for analysis and proper disposal or treatment.

10.0 DRUMS, TANKS, AND MISCELLANEOUS DEMOLITION AND DISPOSAL

Drum, storage tank, miscellaneous container and associated contaminated soil removal are the only types of removal expected. Above ground storage tanks are to be emptied, removed, cleaned, and decommissioned for scrap. Drums are to be emptied, rinsed, crushed and staged for scrap.

11.0 BIOLOGICAL TREATMENT

No biological treatment is anticipated for this project.

12.0 CHEMICAL TREATMENT

No chemical treatment is anticipated for this project.

13.0 PHYSICAL TREATMENT

No physical treatment is anticipated for this project.

14.0 THERMAL TREATMENT

No thermal treatment is anticipated for this project.

15.0 STABILIZATION, FIXATION, AND ENCAPSULATION

Contaminated soil and debris to be disposed must not contain any free liquids. The Contractor may be required to dry the soil by adding a drying agent such as kiln dust to the excavated material.

16.0 (NOT USED)

The current HRTW Work Breakdown has not assigned an account to Section 16.0.

17.0 DECONTAMINATION AND DECOMMISSIONING

Decontamination and decommissioning are not applicable to this removal action.

18.0 DISPOSAL (OTHER THAN COMMERCIAL)

Non-commercial disposal is not anticipated for this project.

19.0 DISPOSAL (COMMERCIAL)

Contaminated soil will be loaded onto trucks or roll-off containers. The loaded waste will be manifested by a licensed hazardous waste hauler and transported to an approved solid waste landfill, or RCRA Subtitle C hazardous waste landfill if necessary.

Liquids generated through decontamination of drums, storage tanks, and containers shall be containerized, manifested, and transported to an approved treatment facility. Liquids drawn from drum, storage tanks, and containers not previously tested shall be hazard categorized and compatibility tested. Lab analyses shall dictate the necessary method of treatment or disposal. The resulting waste streams shall be manifested and sent to an appropriate disposal or treatment facility.

20.0 SITE RESTORATION

The excavated areas will be backfilled with non-contaminated material from the project site or clean material brought from the borrow area at Camp Lejeune and regraded to the original contours. All excavated areas will be revegetated.

21.0 DEMOBILIZATION

All temporary facilities, equipment, and supplies acquired for this contract will be removed from Navy property.

Submittals shall include: (1) a punch list showing correction of all listed items; (2) a letter from the Contractor certifying completion of all contracted work in accordance with the contract conditions, applicable regulations, and standards of practice; (3) a completed project current condition with an as-built survey for the entire site; (4) submittal, in one collated document, of all quality control daily reports, samples, results of the analysis of the samples, corrective actions (if required, taken to correct unacceptable deviations from required quality standards), results of corrective actions; problems encountered and resolved, and lessons learned; and, (5) submittal in one collated document of all quality assurance samples, results of analysis of the samples, and corrective actions (if required, taken to correct unacceptable deviations from required quality standards).

The Contractor shall submit a detailed report summarizing the removal action, lessons learned, and recommendations for inclusion in future similar contracts.

PROJECT TABLE OF CONTENTS

DIVISION 01 -- GENERAL REQUIREMENTS

- 01010 GENERAL PARAGRAPHS
- 01430 WASTE SAMPLING REQUIREMENTS 01561 EROSION AND SEDIMENT CONTROL
- DIVISION 02 -- SITE WORK
- 02220 EXCAVATION, FILLING, AND BACKFILLING 02223 TRANSPORTATION AND DISPOSAL OF CONTAMINATED MATERIAL

DIVISION 13 -- SPECIAL CONSTRUCTION

- 13100 DRUM AND CONTAINER REMOVAL
- 13219 CLEANING ABOVE GROUND STORAGE TANKS
 - -- End of Project Table of Contents --

SECTION 01010

GENERAL PARAGRAPHS

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

CORPS OF ENGINEERS (COE)

COE Engineering Manual EM-385-1-1

FEDERAL ACQUISITION REGULATIONS (FAR)

FAR 52.212-3 and 52.228-5

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 241

1989 Safeguarding Construction, Alteration, and Demolition Operations

1.2 ARARs

An ARAR, as defined, is an environmental law, regulation, or guideline that is either "applicable" or "relevant and appropriate" to a remedial action. "Applicable" requirements are those cleanup standards, standards of control, and other environmental protection requirements, criteria, or limitations, promulgated under Federal or State laws that specifically address chemicals/contaminants of concerns, remedial actions, locations of remediation, or other circumstances at a CERCLA-regulated site. "Relevant and appropriate" requirements are those which address problems or situations sufficiently similar to those encountered at a CERCLA-regulated site that their use is well suited to the particular site (Section 121 of CERCLA, 42 U.S.C. Section 9621 and 40 CFR Section 300.68(i)). The Navy intends to comply with CERCLA standards, and the following regulations shall be considered as ARARs for the site.

AMERICAN PETROLEUM INSTITUTE (API)

API 1604	API	Recommended	Practice,	December	1984
----------	-----	-------------	-----------	----------	------

API 2015 C

Cleaning Petroleum Storage Tanks, September 1985

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION LIABILITY ACT (CERCLA)

CERCLA Part 121 (d)(3) Regulates waste disposal practices

CODE OF FEDERAL REGULATIONS (CFR)

Time Critical Removal Action, Site 6

t

05933801

29 CFR, Parts 1904,1910,1926 Occupational Safety and Health Act Regulation

40 CFR, Part 50.6 National Ambient Air Quality Standards

40 CFR, Parts 260 to 280

49 CFR, Parts 100 to 180

49 CFR, Parts 387-397 Minimum financial responsibility for motor carriers and transportation of hazardous materials

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)

EPA/540/P-91/008 Compendium of ERT Waste Sampling Procedures, Office of Emergency and Remedial Response, Washington, D.C., 1991

1.3 SUBMITTALS

Submit the following in accordance with Section C of the Basic Contract. Copies of submittals shall be submitted to distribution as indicated.

1.3.1 SD-18, Administrative or Close-out Submittals

- a. As-Built Records
- b. Site Health and Safety Plan
- c. Sampling and Analysis Plan
- d. Construction Schedule
- e. Work Plan
- f. Status Reports
- g. CQC Plan Addenda
- h. Testing Laboratory Qualifications
- i. Test Results Summary Report
- j. Daily Report to Inspector
- k. Submittal Status Log
- 1. Permits
- m. Contractor's Closeout Report

Time Critical Removal Action, Site 6

ī

1.4 GENERAL INTENTION

It is the declared and acknowledged intention and meaning to provide and secure a removal action at Marine Corps Base Camp Lejeune, Site 6, North Carolina, complete and ready for use.

1.5 GENERAL DESCRIPTION

This work includes providing all labor, supervision, tools, materials, equipment and transportation necessary to remove and dispose of drums, containers, above ground storage tanks, and the associated contaminated soils at Site 6, MCB Camp Lejeune. Components of this project include: removal and excavation of drums, containers and soil located on the surface or partially buried at Site 6 in and around Storage Lot 203 and south of Storage Lot 201; backfilling with clean fill; control, collection and disposal of contaminated water and investigation derived wastes (IDW) liquids; transportation and disposal of contaminated material classified as a hazardous waste under RCRA (40 CFR Part 261) in a RCRA Subtitle C landfill; disposal of non-hazardous wastes in an approved solid waste landfill; site restoration; and other related work.

1.6 DESCRIPTION OF CONTAMINANTS PRESENT

Lead and barium were found in test pits GS1960D. A viscous sludge from containers in test pits 6-TP5 and 6-TP6 closely resembled No. 6 fuel oil. Contents from 48 drums/containers were sampled and composited. The results of this sampling event are found at the end of this section of specifications.

1.7 LOCATION

The work shall be located at Site 6 of Operable Unit No. 2, Marine Corps Base Camp Lejeune, near Jacksonville, North Carolina, approximately as shown.

1.8 PROJECT INFORMATION

1.8.1 Drawings, Maps and Specifications

One set of contract drawings, maps and specifications will be furnished to the Contractor without charge, except applicable publications incorporated into the technical provisions by reference. Additional sets will be furnished on request at the cost of reproduction. The work shall conform to the following contract drawings and maps, all of which form a part of these specifications and are available in the office of the Contracting Officer.

EFD Draw:	ing No.	NAVFAC	Draw	ing No.

<u>Title</u>

370690	4270690	T-1 C	over Sheet and General Notes
370691	4270691	C-1 S:	ite Plan - North
370692	4270692	C-2 S	ite Plan - South
370693	4270693	C-3 E:	xcavation Site Plans
370694	4270694	C-4 D	etails

1.8.2 Reference Report

The following reference reports are available for examination in the office of the Navy's Technical Representative and is intended only to show the existing conditions. The reports and drawings are the property of the Government and shall not be used for any purpose other than that intended by the specification.

Reports

- Praft Remedial Investigation for Operable Unit No. 2 (Sites 6 and 9) Marine Corps Base Camp Lejeune", Baker Environmental, Inc., dated June 1993.
- B. "Draft Feasibility Study for Operable Unit No. 2 (Sites 6 and 9) Marine Corps Base Camp Lejeune", Baker Environmental, Inc., dated June 1993.
- C. "Draft Proposed Remedial Action Plan for Operable Unit No. 2 (Sites 6 and 9) Marine Corps Base Camp Lejeune", Baker Environmental, Inc., dated June 1993.
- 1.8.3 Test Pits and Analytical Results

Test pit logs and analytical results from drum and test pit soil sampling prepared by Baker Environmental, Inc. follow this section of these specifications.

1.9 PROJECT SCHEDULE AND TIME CONSTRAINTS

The Contractor shall be required to (a) commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than 180 calendar days after the required notice to proceed. The time stated for completion shall include final cleanup of the premises. The time stated for completion does not include the maintenance period for the seeding of disturbed areas.

1.10 SAFETY PROGRAM

In addition to safety requirements in the Basic Contract, the Contractor shall implement a safety program conforming to the requirements of Federal, state, and local laws, rules and regulations. The program shall include, but is not limited to, the following:

- a. Occupational Safety and Health Standards
- b. COE EM-385-1-1
- c. Contract Clause entitled "Accident Prevention." In this clause, the date of COE EM-385-1-1 should be 1 October 1992.

d. NFPA 241

Time Critical Removal Action, Site 6

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.1 FACILITIES AND SERVICES

The Contractor shall provide all temporary facilities necessary for the proper completion of the work, as necessary and as specified.

3.1.1 Availability of Utilities Services

MCB Camp Lejeune will provide electrical service from a utility pole in Storage Lot 203. It is the responsibility of the Contractor to provide the electrical hook-up and the electric meter. The Contractor shall provide all other utilities.

3.1.2 Contractor's Storage Areas

The clause of the Contract Clauses entitled "Operations and Storage Areas" and the following apply:

3.1.2.1 Storage in Existing Buildings

Storage in existing buildings will not be allowed.

3.1.2.2 Open Site Storage Size and Location

The open site available for storage shall be confined to the areas inside the fenced portion of Storage Lot 203.

3.1.3 Trailers, Storage, and Temporary Buildings

Locate trailers, storage, and temporary buildings where directed and within the indicated operations area. Trailers or storage buildings will be permitted where space is available subject to the approval of the Navy's Technical Representative. The trailers or storage buildings shall be suitably painted and kept in a good state of repair. Failure of the Contractor to maintain the trailers or storage buildings in good condition will be considered sufficient reason to require their removal.

3.1.3.1 Storage and Office Trailers

Trailers must meet state law requirements and must be in good condition.

Trailers shall be lockable and shall be locked when not in use.

Trailers shall have a sign in lower left hand corner of left door of trailer with the following information: company name, address, registration number of trailer or vehicle identification number, location on base, duration of contract or stay on-base, contract number, local on-base phone number, off base phone number of main office, and emergency recall person and phone number. 3.1.4 Cleaning Up

During the progress of the remediation, the work area and adjacent areas shall be kept clean and free of all rubbish, surplus materials, and unneeded construction equipment.

No material or debris shall be allowed to flow or wash into watercourses, ditches, gutters, drains, or pipes.

The Contractor shall remove all temporary buildings and structures built under this contract on or before the completion of the work.

All materials and equipment installed by the Contractor or any subcontractors shall be thoroughly clean, and on completion of the work shall deliver it undamaged and in fresh and new-appearing condition.

The Contractor shall restore or replace, when and as directed by the Navy's Technical Representative, any property damaged by the contract work and equipment or by employees. The property shall be restored in a condition at least equal to that existing prior to the beginning of construction operations. Suitable materials, equipment, and methods shall be used for such restoration. The restoration of property shall be done promptly and shall not be left until the end of the contract period.

3.2 RESTRICTIONS ON OPERATIONS

3.2.1 Scheduling

The Contractor shall schedule the work as to cause the least amount of interference with station operations. Work schedules shall be subject to the approval of the Officer in Charge of Construction. Permission to interrupt station roads shall be requested in writing a minimum of 15 calendar days prior to the desired date of interruption.

3.2.2 Regular Work Hours

The regular work hours for MCB Camp Lejeune are 0645 to 1615.

3.2.3 Work Outside Regular Hours

If the Contractor desires to carry on work outside regular hours or on Saturdays, Sundays, or holidays, the Contractor shall submit an application to the Officer in Charge of Construction two days prior to the scheduled working date. The Contractor shall allow ample time to enable satisfactory arrangements to be made by the Government for inspecting the work in progress. At night, the Contractor shall light the different parts of the work in an approved manner.

3.2.4 Security Requirements

No employee or representative of the Contractor will be admitted to the work site without satisfactory proof of United States citizenship.

3.2.4.1 Extraordinary Security Requirements

The clause of the Contract Clauses entitled "Identification of Employees" and the following apply:

- a. Equipment Markings: Equipment owned or rented by the company will have the company name painted or stenciled on the equipment in a conspicuous location. Rented equipment is to be conspicuously marked with a tag showing who rented it.
- 3.2.5 Restrictions On Equipment
- 3.2.5.1 Radio Transmitter Restrictions

The Contractor shall conform to the restrictions and procedures for the use of radio transmitting equipment, as directed by the Navy's Technical Representative. Do not use transmitters without prior approval.

3.3 ACTIONS REQUIRED OF THE CONTRACTOR

3.3.1 Location of Underground Facilities

The Contractor shall verify the elevation and location of existing piping, utilities, and any type of underground obstruction not indicated or specified to be removed but indicated in locations to be traversed during excavation. MCB Camp Lejeune Base Maintenance may provide utility location. Base Maintenance must be contacted two days prior to commencement of excavation.

3.3.2 Station Permits

The Contractor shall obtain station permits pursuant to paragraph entitled "Station Regulations." Permits are required for, but not necessarily limited to, welding and digging. Burning will not be permitted. The Contractor shall allow 7 calendar days for processing of the applications.

3.3.3 Storm Protection

If a warning of gale force winds is issued, take precautions to minimize any danger to persons, and protect the work and any nearby Government property. Precautions shall include, but are not limited to, closing openings; removing loose materials, tools and equipment from exposed locations; and removing or securing scaffolding and other temporary work. Close openings in the work if storms of lesser intensity pose a threat to the work or any nearby Government property.

3.4 PUBLIC RELEASE OF INFORMATION

- a. The Contractor shall not publicly disclose any information concerning any aspect of the materials or services related to this delivery order without the prior written approval of the Navy's Technical Representative.
- b. The Contractor shall insert the substance of clause "(a)" of this paragraph in each subcontract and purchase order relating to the

project.

3.5 SUBMITTALS FROM BASIC CONTRACT

3.5.1 As-Built Records

Maintain one sepia and three sets of full size as-built drawings in accordance with the Basic Contract Section 6.11.5 "As-Builts." Upon completion of the project submit the certified drawings to the Navy's Technical Representative.

3.5.2 Site Health and Safety Plan

Within 20 days of issue delivery order, prepare and submit to the Navy's Technical Representative a Site Health and Safety Plan which complies with the Basic Contract Part 3.0 "Health and Safety."

3.5.3 Sampling and Analysis Plan

Within 20 days of issue delivery order, prepare and submit to the Navy's Technical Representative a Sampling and Analysis Plan in accordance with 40 CFR 300.415 (b)(4)(ii), describing all sampling and analyses proposed for the intended work to be approved by the Navy's Technical Representative. The Sampling and Analysis Plan shall consist of two parts: the field sampling plan and the quality assurance project plan.

3.5.4 Construction Schedule

Within 20 days of issue delivery order, prepare and submit to the Navy's Technical Representative a schedule showing the proposed start and finish dates of all portions of the proposed construction.

3.5.5 Work Plan

Within 20 days of issue delivery order, prepare and submit a Work Plan which includes the following sections: Summary of Work, the tasks to be performed, a task breakdown, the project organization, an Environmental Protection Plan, a Chemical Quality Management Plan and required catalog data.

3.5.6 Status Reports

All status reports shall comply with the Delivery Order # 0001. Submit a Technical Progress Report, Cost Performance Report, Modification Log, Time-Scaled Logic Diagram, Government Materials Tracking Report, Variance Analysis Report, and Waste Materials Report. Submit the first delivery order status report approximately 30 days after issuance of the delivery order. Thereafter, submit status reports every 30 days. Status report periods shall be consistent with the invoice reporting periods.

3.5.7 CQC Plan Addenda

Within 20 days of issuance of the delivery order, submit a CQC Plan Addenda which complies with Part 6 of the Basic Contract. Time Critical Removal Action, Site 6

3.5.8 Testing Laboratory Qualification

T.

Within 15 days of issuance of the delivery order, submit Qualifications of each Laboratory which will be used. This submittal must comply with Part 6 of the Basic Contract.

3.5.9 Test Results Summary Report

A summary report of all field tests containing both "required" and "actual" results plus "passed" or "failed" for conforming, non-conforming and repeating test results shall be submitted to the Navy's Technical Representative at the end of each month in accordance with Section 6.10.1 of the Basic Contract.

3.5.10 Daily Report to Inspector (DRI)

The DRI shall be prepared and submitted daily to the Navy's Technical Representative in accordance with Section 6.11.1 of the Basic Contract.

3.5.11 Submittal Status Log

The CQC Representative shall submit a completed Submittal Status Log to document quality control for materials, inspection and testing in accordance with Part 6.0 of the Basic Contract.

3.5.12 Permits

Within 20 days of issuance of the delivery order, submit draft copies of the following permits required for on-site activities:

- a. Excavation Permit; from the Public Works Officer, Utilities Division
- b. Hot Works Permit; from the Public Works Officer, Utilities Division
- 3.5.13 Contractor's Closeout Report

Submit upon completion of the project. This report shall include: Introduction, Summary of Action, Final Health and Safety Report, Summary of Record Documents, Field Changes and Contract Modification, Final Documents, Summary of Chemical and Geotechnical Testing, Offsite Disposition of Materials, and QC Summary Report.

3.6 REQUIRED INSURANCE

3.6.1 Minimum Coverage

The Contractor shall procure and maintain during the entire period of performance under this contract the following minimum insurance cover:

Pro	perty per			
Тур	e of Insurance	<u>Per Person</u>	<u>Per Occurrence</u>	<u>Occurrence</u>
1.	Comprehensive		\$500,00	0
	Gen'l Liability		\$500,00	U

SECTION 01010 PAGE 9

I.

- 2. Automobile Liability \$200,000 \$500,000 \$20,000
- 3. Workmen's Compensation: As required by Federal and State Workmen's compensation and occupational disease statutes.
- 4. Employer's Liability Coverage: \$100,000 except in states where workmen's compensation may not be written by private carrier.
- 5. Other: As required by state law.
- 3.6.2 Insurance Work on a Government Installation (Sept 1989)
- 3.6.2.1 General Requirements

The Contractor shall, at its own expense, provide and maintain during the entire performance period of this contract the minimum amounts of insurance required in the Schedule or elsewhere in the contract.

3.6.2.2 Insurance Certification

Before commencing work under this contract, the Contractor shall certify to the Navy's Technical Representative in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective (1) for such period as the laws of the State in which this contract is to be performed prescribe or (2) until 30 days after the insurer or the Contractor gives written notice to the Navy's Technical Representative, whichever period is longer.

3.6.2.3 Notification

The Contractor shall insert the substance of this clause, including this paragraph, in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the contract. The Contractor shall maintain a copy of all subcontractor's proof of required insurance, and shall make copies available to the Navy's Technical Representative upon request (FAR 52,228-5).

-- End of Section --

SECTION 01010 PAGE 10

Baker	:S: <u>501</u>	nental, me	TEST PIT RECORD PROJECT: CAMPLETEUNE RIFS S.O. NO.: 19133 COORDINATES: EAST TEST PIT NO.: SURFACE ELEVATION: DATE: WEATHER: OVER CAST MED UNDISTURBED, IF O UNDISTURBED, I-GNUON AND 5-GALLON CONTAINERS PARE EA, STURAL CONTAINERS: LOCATED WETHEN SUESUAFACE.	
HNU	= Photo ic	onization Dete Vapor Analyz	DEFINITIONS ctor Reading	
Depth	Sample Type	HNU or (OVA) ppm		
(Ft.)	and No.	Field	Visual Description	Elevatio
1	NA	<2	UNDISTURBED SOIL DISTINCT HORE TONS FRESCHT NO DEBRIS FRESENT	
2 - 3 -	NA	<2	UN DISTURBED SOIL DISTINCT HORIZONS PRESENT SMALL PIECES OF METAL DEBRIS	
4 5 6	NA	<2	METAL DEBRIS INCREMESES SEVERAL 1/2 GALLON UP TO 5 GALLON CONTAINERS ENCOUNTERED FROM 5-7 0000 SUBSURFACE CONTAINERSO000000	+
- 7 - 8	6-TP5 02 6-TP5 02 6-TP5 02	p- 10	SHANPLE TAKEN UNDERNEATH CONTAINERS SANNIE 6-TRS-OZ AND DUPLICATE SANNIE 6-TRSD-OZ. SANNELE 6-TRE618-OZ WAS CF	
- 9 -	NA	10	A GREENISH BLUE GREASE TYPE MATERIAL FROM ONE OF THE CONTAINERS. UNDISTURBED SOIL DISTINCT HONIZOUS PRESENT	
10			-	
12			-	
13- - 14-			-	
		CEOC C	ITERC BANEDBED. FETE MONTH	

EQUIPMENT: CASE 580 BACKHOE

1

BAKER REP.: <u>FE E MONDER</u> TEST PIT NO.: <u>G-TP5</u>

SHEET 1 OF

REMARK	(S: 501	nental, tac. <u>-L AFPEAI</u> ~IT ARE	TEST PIT RECORD PROJECT: <u>CANIP LETEUNE</u> RIFS S.O. NO.: <u>19133</u> COORDINATES: EAST SURFACE ELEVATION: DATE: WEATHER: <u>OUEK CAST</u> SOURTSTURBED, I-CALLON AND 5-GALLON CONTHENERS IN AL CONTATINER'S LOCATED WITHIN SUBSURFACE DEFINITIONS DEFINITIONS	<u></u>
		onization Detec Vapor Analyze HNU or		
Depth (Ft.)	Sample Type	(OVA) ppm	Visual Description	Elevatio
(FC)	and No.	Field		
	NA	<2	UNDISTURBED SOIL DISTINCT HORIZONS PRESENT NO DEBRIS PRESENT	-
2 3 -	NH	<2	UN OISTURBED SOIL DISTINCT HORI ZONS FRESENT SMALL FIECES OF METAL DEBRIS	
4 5 6	NA	<۵	METAL DEBRIS INCREASES SEVERALY & GALLOW OF TO 5 GALLON CONTAINERS ENCOURTERED FROM 5'-7'	
7	6- 787- 02	10	OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	
9				
10-				
11-				_
12				
13-				_
14-				_
- 15				
	ACTOR:	GEOCENI	BAKER REP.: PETE MONDAY	·····

EQUIPMENT: CASE 550 PACK MOE

I.

BAKER REP.:	PETE MONURY	
TEST PIT NO.:	6-TP7	SHEET <u>1</u> OF

			PROJECT: <u>CAMP LEJEUNE RI/FS</u> S.O. NO.: <u>19133</u> TEST PIT NO.: <u>GS 1940 A</u> COORDINATES: EAST NORTH: SURFACE ELEVATION: DATE: <u>29 SEPT. 92</u> WEATHER: <u>P. CLOUDY G5 °F</u> FRUCTION DEBRIS ENCOUNTERED. ALSO ENCOUNTERED WHITE OILY MATERIAL. SAMPLES OBTAINED.	Sour
		onization Detecto Vapor Analyzer f	-	<u> </u>
Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm Field	Visual Description	Elevatio
1-	140.		COMMUNICATION WIRE, SCRAP METAL, 95-105 MM CARTRIDGES (SPENT), CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS.	
2 - 3	NA 6 65 1960	1.0	- COMMUNICATION WIRE, SCRAP METAL, 95-105 MM CARTRIDGES (SPENT) WHITE SOLID POWDER AND DILY BROWN VISCOUS LIQUID. CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS.	
4 5	6 65 1960 02	1.0	COMMUNICATION WIRE, SCLAP METAL. EXCAVATION TERMINATED AT 25' POINT DUE TO THE AMOUNT OF COMMUNICATION WIRE ENCOUNTERED.	
6 7 8				
9- 10- 11-			·	
14 15				

1

.

	S: <u>M</u> .	mental, inc. <i>LITARY / Co.</i> 5 1960 A.	S.O. NO.: 19133 COORDINATES: EAST NORTH: SURFACE ELEVATION: DATE: 29 SCPT 92 WEATHER: P. CLOUDY 65 F USTRUCTION DEBRIS ENCOUNTERED. SECOND TEST P.T ALO	
	= Photo Ia	onization Detecto Vapor Analyzer I	•	
Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm Field	Visual Description	Elevatio
1-	~~~	NG	COMMUNICATION WIRE, SCRAP METAL 95-105 MM CARTRIDGES (SPENT), CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRS.	
2 3			COMMUNICATION WIRE, SCRAP METAL, 95-105MM CARTRIDGES (SPENT) WHITE POWDER ENCOUNTERED. CLASSIFIED AS MILITARY/CONSTRUCTION DETSRIS,	
4	NA		COMMUNICATION WIRE, SCRAP METAL. EXCAVATION TERMINATED DUE TO THE AMOUNT OF COMMUNICATION WIRE ENCOUNTERED.	-
6 7	NA	NA		
8- 9-				
10				
12 13				
14- - 15-				

.

	S: <u>M.c</u>	nental, Inc. (1774 Ry / Co. 1960 A.	PROJECT: CAMP LEJEUNE RI/FS S.O. NO.: 19133 TEST PIT NO.: GS 1960 A COORDINATES: EAST SURFACE ELEVATION: DATE: WEATHER: P. CLOUDY OSTRUCTION DEBRIS	·····
		nization Detecto Vapor Analyzer		
Depth (Ft.)	Sample Type and	HNU or (OVA) ppm Field	Visual Description	Elevation
	No.		COMMUNICATION WIRE, SCRAP METAL 95-105 MM CARTRIDGES (SPENT), CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS.	
2 3	NA	NA	COMMUNICATION WILL, SCRAP METAL, 95-105MM CARTRIDGES (SPENT) WHITE POWDER ENCOUNTERED. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS,	
4- <u></u> 5-	NA	NA	COMMUNICATION WIRE, SCRAP METAL. EXCAVATION TERMINATED DUE TO THE AMOUNT OF COMMUNICATION WIRE ENCOUNTERED.	
6 7 8 9 10 11 12	NA	NA		

~)	REMARK			PROJECT: CAMP LETEUNE RIFS S.O. NO.: 19133 TEST PIT NO.: GS 1960 B COORDINATES: EAST NORTH: DATE: SURFACE ELEVATION: DATE: WEATHER: P. CLOUDY 65 °F F MILITARY CONSTRUCTION DEBRIS ENLUENTETLED: SAMP	
ſ	ни		nization Detect Vapor Analyzer	•	
	Depth		HNU or (OVA) ppm		Eleva
	(Ft.)	and No.	Field	Visual Description	
	1-			COMMUNICATION WIRE, SCRAP METAL, BATTERY FACKS, CLASSIFIED AS MILITRAY/CONSTRUCTION DEBRIS,	-
	2	NA	1.0	<u>-</u>	
	3-	65 1960		COMMUNICATION WIRE, SCRAP METAL, BATTERY PALKS, BLUE/AQUA COLORED SOLID, SOIL NEAR BATTERY PACKS APPEARED SOMEWAT SATURATED, MAY HAVE BEEN BATTERY ACID. CLASSIFIED AS MILITARY / CONSTRUCTION	
	4	01	1.0	DEGRID. COMMUNICATION WIRE - TEST PIT WAS TERMINATED AT N 5' DUE TO THE AMOUNT OF COMMUNICATION	
ana V	5-			WIRE ENCOUNTERED	-
	6	NA	1,0		
					-
	7-				
	8				_
	-				4
	9-				
	10-				4
	11-				
	12				-
	13-				-
	14-				4
. ` }	15				1
	, '2				

TEST PIT RECORD

TEST PIT NO .: 45 1960 3 (2)

DATE: 29 SEPT. 92

NORTH: _

PROJECT: CAMP LEJEUNE S.O. NO.: 19133

Baker Environmental, Inc.

COORDINATES: EAST _

SURFACE ELEVATION:

WEATHER: P. CLOUDY 65 .F

Т

REMARKS: A LOT OF MILITARY/ CONSTRUCTION DEBRIS ENCOUNTERCED. NO SAMPLE

OBTAINED.

	Depth	Sample Type	HNU or (OVA) ppm		Elevatio
	(Ft.)	and No.	Field	Visual Description	
	1-			COMMUNICATION WIRE, SCEAP METAL, BATTORY PACKS CLASSIFICO AS MILITARY/CONSTRUCTION DEBRIS.	-
		ALA	NA	-	-
	2	1		COMMUNICATION WIRE, SCRAP METAL, BATTERY PALES, BLUE / AQUA COLORED SOLID. SOIL NEAR BATTERY PALES	
	3-1		NA	APPEARED SOME WHAT SATURATED. CLASSIFICD AS MILITARY / CONSTRUCTION DEBRIS.	
	4	NA_	<u>~~</u>	COMMUNICATION WIRE - TEST FIT AGAIN TERMINATED	
	5-			AT a 5' DUE TO THE AMOUNT OF COMMUNICATION WIRE ENCOUNTERED.	
	6	NA	NA		-
	-				-
	7				
	8-				
	4				-
	9-1				
	10-				4
	- 11				
					4
	12-				
	13-				-
	14-				-
	15				
1	12				

		mental, toc	S.O. NO.: /1/33 TEST PIT NO.: GS 1960 C COORDINATES: EAST NORTH: SURFACE ELEVATION: DATE: 29 5007.92 WEATHER:	
REMARKS: <u>Soil APPFARIE</u>		L APPFARI	O UNDISTURBED. NO DEBRIS OR EYIDENCE OF BURIED MA.	TERIAL
		THE THE		
		onization Detecto Vapor Analyzer		
Depth	Sample Type	HNU or (OVA) ppm		Elevati
(Ft.)	and No.	Field	Visual Description	
			SAND UNDISTURBED Soils (ROOTS PRESENT)	
1-1			NO DEGRIS PRESENT	
2-	NA	1,0		
			UNDISTURBED SOIL	_
3-			NO DEBRIS PRESENT	~
	NA	1.0		-
4	_		UNDISTURBED SOIL	
5-			NO DEBRIS PRESENT	_
	NA	1.0		-
6	1			
7_			NO DEBRIS PRESENT	
4	NA	1.0		-
8			· · · · · · · · · · · · · · · · · · ·	
9-				
4				4
10-				-
11				
12-				_
4				4
13				
14-				_
				-
15			-	-
1				1

REMARK	(S: <u>C</u> .	nental, 14-	PROJECT: <u>CAMP LIJEUNE RIFS</u> S.O. NO.: <u>19133</u> COORDINATES: EAST NORTH: SURFACE ELEVATION: <u>DATE: 29 SEPT. 92</u> WEATHER: <u>P. CLOUDY 65 °F</u> WARL <u>J-5 GALLON CONTAINERS (BULKERS)</u> RUITED 7 GOVID / SLUDIC	
		onization Detecto Vapor Analyzer	5	
Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm Field	Visual Description	Elevatio
1-1			COMMUNICATION WIRE, SCRAP METAL AND S-GALLON BUCKETS CLASSIFIED AS MILITARY DEBRIS.	
2	NA GS 1960 02	1.0	1-5 GALLON CONTAINERS CONTAINING LIQUIDS (MAY HAVE BEEN WATER) SAMPLE OBTAINED OF LIQUID/SLUDGE, CONTAINERS IN POUR CONDITION.	
4 1 5	6 65 1960 03	1,0	1-5-GALLON CONTAINERS (BULKETS), COMMUNICATION WIRE SAMPLE OBTAINED AT BUTOM OF TRENCH	
6				
8- - 9-				
10- - 11- -				
12				
14- - 15-				

		. LITARY /	COORDINATES: EAST NORTH: SURFACE ELEVATION: DATE: <u>30 SEPT 92</u> WEATHER: <u>P. CLOUDY 65°F</u> CONSTRUCTION DEBRIS ENCOUNTEXTO, NO SAMPLE TA	
		onization Detecto c Vapor Analyzer	•	
Depth	Sample Type	HNU or (OVA) ppm		Elevat
(Ft.)	and No.	Field	Visual Description	
			COMMUNICATION WIRE AND ROOTS ENCOUNTERED.	
1-1	1			
2	N P	1,0		
3-			BURIED S-GALLON (BUCKET) CONTAINER 3.0 PPM ON OVA. COMMUNICATION WIRE SCRAP MOTHL	
	Aų	1.0	ENLOUNT CRED.	4
4			SOIL APPERAD UNDISTURBED AT 5' MAKE,	
5-			SMALL AMOUNT OF COMMUNICATION WIRE ENCOUNTER	εo,]
6	NA	2,0		-
				-
7				-
8-				4
				_
9-1				
10-				-
11-				4
11-	1			
11- - 12-				
-				
12				
- 12				

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.:	45	1960 E	SHEET
---------------	----	--------	-------

SHEET <u>1</u> OF <u>1</u>

TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP)

۰.

VOLATILE ORGANICS TARGET ANALYTES

EPA Method 8240

Client: Baker Environmental

Client Sample ID: 6-GS1960D-02 Date Sampled: 9/29/92

Laboratory ID: 920556-04

Concentration in: ug/L (ppb) . Date Leachate Analyzed: 10/10/92

Date TCLP Performed: 10/06/92

Target Analyte	Sample Concentration	Method Reporting Limit
Benzene	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroform	8	. 5
1,2-Dichloroethane	ND	5
1,1-Dichloroethylene	ND	5
Methylethylketone	ND	10 .
Tetrachloroethylene	ND	5
Trichloroethylene	ND	5
Vinyl chloride	ND	10

ND = Not detected

Reported by:

TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP)

۰.

SEMIVOLATILE ORGANIC ANALYSIS

EPA METHOD 8270

Client: Baker Environmental	Date Sampled: 9/29/92
Client Sample ID: 6-GS1960D-02	Date TCLP Performed: 10/09/92
Laboratory ID: 920556-04	Date Leachate Extracted: 10/14/92
Concentration in: ug/L (ppb)	Date Extract Analyzed: 10/31/92

Target Analyte	Sample Concentration	Method Reporting Limit
Pyridine	ND	33
2,4-Dinitrotoluene	ND	33
Hexachlorobenzene	ND	33
Hexachloro-1,3-butadiene	ND	33
Hexachloroethane	ND	33
Nitrobenzene	ND	33
1,4-Dichlorobenzene	ND	. 33
Methylphenols (total)	ND	33
Pentachlorophenol	ND	-83 ,
2,4,5-Trichlorophenol	ND	83
2,4,6-Trichlorophenol	ND	- 33

ND = Not detected

Reported by:_____

 \mathcal{X}

Approved by:_____

EPA SAMPLE NO.

10 PESTICIDE ORGANICS AMALYRIS DATA SMEET

5651960D02 value: CEIMIC COPP Contract: BAKER ab Code: CEIMIC Case No.: 19133 SAS No.: SDG No.: 665196 latrix: (soil/water) WATER Lab Sample ID: 920556-04 ample wt/vol: 300.0 (n/mL) ML Lab File ID: decanted: (Y/N) Date Received: 10/01/92 Moisture: (xtraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/09/92 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/23/92 njection Volume: 1.00 (uL) Dilution Factor: 1.00 Sulfur Cleanup: (Y/N) N PC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 1 1 -----gamma-BHC (Lindane)_____ 0.17IU / ----Heptachlor_____ 0.171U 1 ł 1 1024-57-3----Heptachlor epoxide_____ 0.1710 / 🔨 | -----Endrin____ 0.3310 | 72-43-5----Methoxychlor 1.710 | 5103-71-9----alpha-Chlordane 0.1710 | 5103-74-2----gamma-Chlordane 1 0.1710 | 9001-35-2----Toxaphene 17 IU 1 ł

FORM I PEST

i.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

ORGANOCHLORINE HERBICIDES

EPA Method 8150

Client: Baker Environmental Client ID: 6-GS1960D-02 Date Sample Received: 10/01/92 Date Sample Analyzed: 10/21/92 Concentration in: ug/L (ppb)

Target Analyte	Sample Concentration	Method Reporting Limits
2,4-D	ND	30
2,4,5-TP (Silvex)	ND	10

ND = Not detected

Reported by:___

Approved by:

TÇLP	METALS
	1
•	

.

SAMPLE ID

Т

INDRGANIC ANALYSIS DATA SHFET

			nuos innonceros.		• • •			
.ab Name:	CEIMIC		Cc	ntract: B	AKEF	κ.		60D2
					1 11 11	·	۰	
.ab Code:	CEIMIC.	Case No.	: 19133	SAS No.:	6		SDO	No.: 60Al
Natrix (so	al/water):	WATER			Lab	Sampl	e II	: 01556-04
_evel (low	u∕med):	LOW			Date	e Rece	ived	: 10/01/92
Solids:		0.0						
	Concentra	tion Units	(ug∕L or π	ig∕Kg diry	wœic	iht):	UG/L	
			-					
	CAS N	o. ¦ Anal	yte Conce	entration;	C	0	: M :	
	7440-	38-2 ¦Arser		40.0		·i :	F'	
	:7440-	39-2 (Bariu	un l	274	Ì		F' !	
	;7440-	43-9 ¦Cadmi	LUM ;	5.7 ;	B i	i	P	
	7440-	47—3 (Chron	กว่านกก ใ	17.8 ;	E ¦	1	F'	
	7439-	92-1 Lead		10000 ;			F.	
ě.		97-6 ¦Mercu						
		49-2 ;Seler						
	· /440-	22-4 ¦Silve ¦	?r ; ;	2.0 ; 	u: _:	; , ,		
Color Befo	ore: COLORL	ESS C	larity Bef	ore: CLEA	R		Text	ure:
Color Afte	er: COLORL	ESS C	Clarity Aft	er: CLEA	F:		Arti	facts:
Comments:								
			-					

.

•

•

.

INORGANIC ANALYTES

٠.

Client: Baker Environmental

Client ID: 6-GS1960D-02

Laboratory ID: 920556-04

Date Sample Received: 10/01/92

Date Sampled: 9/29/92

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed	
Flashpoint	NC	°F	200	10/18/92	
рН	5.86	S.U		10/05/92	
Reactive Sulfide $^+$	5	mg/kg ()	ppm) 2	10/07/92	
Reactive Cyanide+	ND	mg/kg (ppm) 0.5	10/12/92	

NC = No combustion ND = Not detected + Reported on an "as is" basis

mufale Approved by: Johning Mouch Reported by:

789

TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP)

. 1

VOLATILE ORGANICS TARGET ANALYTES

EPA Method 8240

Client: Baker Environmental

Client Sample ID: 6-GS1960D-03 Date Sampled: 9/29/92

Laboratory ID: 920556-05

Date TCLP Performed: 10/07/92

Concentration in: ug/L (ppb) ____ Date Leachate Analyzed: 10/11/92

Carget Analyte	Sample Concentration	Method Reporting Limit
Benzene	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
,2-Dichloroethane	ND	5
,1-Dichloroethylene	ND	5
ethylethylketone	ND	10
etrachloroethylene	ND	5
richloroethylene	ND	5
inyl chloride	ND	10

ND = Not detected

À

.

Reported by:_____

•

PESTICIDE ORGANICS ANALYSIS DATA SHEET 6651960003 a - Name: CEIMIC CORP Contract: BAKER ab Code: CEIMIC Case No.: 19133 SAS No.: EDG No.: EGE196 atrix: (soil/water) WATER Lab Sample ID: 920556-05 ample wt/vol: 300.0 (g/mL) ML Lab File ID: Moisture: decanted: (Y/N) Date Received: 10/01/92 xtraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/09/92 oncentrated Extract Volume: 10000 (uL) Date Analyzed: 10/22/92 njection Volume: 1.00 (uL) Dilution Factor: 1.00 PC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMFOUND (ug/L or ug/Kg) UG/L Q

1 D

!			1	1	
1		gamma-BHC (Lindane)	}	Ø. 171U	
1		Heptachlor	1	Ø. 17IU	
1		Heptachlor epoxide	1	Ø. 171U	
31		Endrin	1	Ø.331U	
1	72-43-5	Methoxychlor	I	1.710	
1	5103-71-9	alpha-Chlordane	1	0.17IU	
1	5103-74-2	gamma-Chlordane	1	0.17IU	
1	8001-35-2	Toxaphene	1	17 IU	
1			1	1	

FORM I PEST

£

EPA SAMPLE NO.

TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP)

SEMIVOLATILE ORGANIC ANALYSIS

EPA METHOD 8270

Client: Baker Environmental Client Sample ID: 6-GS1960D-03 Laboratory ID: 920556-05 Concentration in: ug/L (ppb) Date Extract Analyzed: 10/31/92

Date Sampled: 9/29/92 Date TCLP Performed: 10/09/92 Date Leachate Extracted: 10/14/92

Target Analyte	Sample Concentration	Method Reporting Limit
Pyridine	ND .	33
2,4-Dinitrotoluene	ND	. 33
Hexachlorobenzene	ND	33
Hexachloro-1,3-butadiene	ND	33
Hexachloroethane	ND	33
Nitrobenzene	ND	33
1,4-Dichlorobenzene	ND	. 33
Methylphenols (total)	ND	33
Pentachlorophenol	ND	-83
2,4,5-Trichlorophenol	ND	. 83
2,4,6-Trichlorophenol	ND	. 33

ND = Not detected

Reported by: _____ Approved by: _____

1

TCLP	METALS
	1
۰.	

Т

.

.

•

	Ţ	NORGANIC A	NALYSIS DATA S	L-((=')= ')	SAMPLE ID
				e etinitae e	60D3
Lab Name: CEII	110		Contract:	BAKER	
Lab Code: CEIN	1IC Ca	se No.: 19	133 SAS No.	: ద	SDG No.: 60A1
Matrix (soil/u	water): WATE	R		Lab Sam	ple ID: 01556-058
Level (low/med	1): LOW			Date Re	ceived: 10/01/92
% Solids:	0.	0			
	CAS No.	 Analyte	L or mg/Kg dry Concentration	: :C: Q	
	17440-38-2	Arsenic	40.0	101	F
	1/440-45-9	Laomium	1.9	1111	P P
	7440-47-3	Chromium	: 3.6	:U:	¦F';
A	2439-92-1	Lead	: 209	1 1 2 1	(F) (
	7439-97-6	Mercury	0.04	1U: N	A
			50.0		
			2.0		
Color Before:			ty Before: CLE		
Color After:	COLORLESS	Clari	ty After: CLE	AR	Artifacts:
Comments:					
	*** ***** **** * **** **** **** ***** ***** **** * **** ***** ** **				

1LM02.1

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

٠,

ORGANOCHLORINE HERBICIDES

EPA Method 8150

Client: Baker Environmental

Client ID: 6-GS1960D-03

Date Sample Received: 10/01/92

Date Sample Analyzed: 10/21/92 Concentration in: ug/L (ppb)

Target Analyte	Sample Concentration	Method Reporting Limits
2,4-D	ND	30
2,4,5-TP (Silvex)	ND	10

ND = Not detected

١,

Reported by: ______

Approved by: XZ

Laboratory ID: 920556-05

Date Sample Prepared: 10/09/92

INORGANIC ANALYTES

٠,

Client: Baker Environmental

Client ID: 6-GS1960D-03

Laboratory ID: 920556-05

Date Sample Received: 10/01/92

Date Sampled: 9/29/92

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Flashpoint	NC	°F	200	10/18/92
pH	6.56	s.u		10/05/92
Reactive Sulfide ⁺	ND	mg/kg (]	ppm) 2	10/07/92
Reactive Cyanide ⁺	ND	mg/kg ()	ppm) 0.5	10/12/92

NC = No combustion ND = Not detected

<u>``</u>

+ Reported on an "as is" basis

Tuning like Approved by: Commin March Reported by: 9

CORPORATION

"Analytical Chemistry for Environmental Management"

March 17, 1993

Mr. Matthew D. Bartman Baker Environmental 420 Rouser Road Coraopolis, PA 15108

Dear Mr. Bartman:

The results of our analysis of sample 6-TP5GR-02 indicate the sample is a petroleum hydrocarbon product that closely matches #6 fuel oil. The sample readily dissolves in freon-113 and methylene chloride.

Analysis by scanning infrared spectroscopy shows the sample exhibits carbon-hydrogen bonding typical of petroleum hydrocarbons. No other functional groups were detected by scanning IR analysis.

Analysis by gas chromatography using flame ionization detection showed the chromatogram of sample 6-TPGR-02 exhibits an unresolved complex mixture with a pattern that most closely matches #6 fuel oil.

The concentration of #6 fuel oil in sample 6-TPGR-02 is 100%.

If you have any questions regarding our findings please don't hesitate to call us.

Sincerely Henry Leibovitz

Henry Leibovitz GC Laboratory Manager

HL/11

enc.

10 Dean Knauss Drive, Narragansett, R.I. 02882 • (401) 782 8900 • FAX (401) 782-8905

401 782 8905

, ,		DATA SUMMARY REMEDIAL INVESTIGATION CIO NCB CAMP LEJEUNE, NORTH CAI CASE No. 19133 SDG NO. 6-CA	ROLINA	· Page 10 05/12/93 c:\foxpro	SOB
Parameter Name	Location: 6-1P4-02 Depth: R/A Date Sampled: 3/3/93 Lab Id: 930095-12 Units	6-TP5-02 N/A 3/3/93 930095-13	6-TP5-02D Dup TP502 3/3/93 930095-14	6-1P7-02 H/A 3/3/93 930095-15	ጽ
ALPHA-BWC BETA-BHC DELTA-BHC GANNA-BBC(LINDANE) HEPTACHLOR ALDRIN HEPTACHLOR EPOXIDE ENDOSULFAN I DIELORIN 4,4'-DDE ENDOSULFAN SULFATE 4,4'-DDT MEINOXCHLOR ENDOSULFAN SULFATE 4,4'-DDT MEINOXCHLOR ENDRIN KETONE ENDRIN ALDENTDE ALPHA CHLORDAKE GANMA CHLORDAKE GANMA CHLORDAKE GANMA CHLORDAKE FCB-121 PCB-1242 PCB-1254 PCB-1260	UG/KG 1.8 U UG/KG 3.6 U	1.8 U 1.8 U 3.6 U	38 U 38 U 37 U	3.1 J 1.8 UJ 1.8 UJ 1.8 UJ 1.8 UJ 1.8 UJ 1.8 UJ 1.8 UJ 3.6 UJ 3.6 UJ 3.6 UJ 3.6 UJ 3.6 UJ 3.6 UJ 1.8 UJ 1.8 UJ 3.6 UJ 3.6 UJ 1.8 UJ 3.6 UJ	
CHLOROMETHANE BROMOMETHANE VINYL, CHLORIDE CHLOROETHANE METHYLEME CHLORIDE ACETONE CARBON DISULFIDE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE CHLOROFORM 1,2-DICHLOROETHANE 2-BUTANONE 1,1,1-TRICHLOROETHANE 1,2-DICHLOROETHANE CARBON TETRACHLORIDE BROKODICHLOROPROPANE CIS-1,3-DICHLOROPROPANE CIS-1,3-DICHLOROPROPANE CIS-1,2-TRICHLOROETHANE 1,2-7RICHLOROETHANE 1,2-7RICHLOROETHANE	UG/KG 11 U UG/KG 11 U	11 U	12 U 12 U	12 V 12 V	19:91 E6' 81 YAM

1

.

ר. י

			DATA SUMMARY REMEDIAL INVESTIGATION CT MCB CAMP LEJEUNE, NORTH C CASE No. 19133 SDG No. 6-	AROLINA	Page 11 05/12/93 c:\foxp/	CS/BAXER/CH CH
Dai Arameter Name	Location: 6 Depth: W te Sampled: 3 Lab 1d: 9 Units	/A (3/93	6-TP3-02 N/A 3/3/93 930095-13	6-TÞ5-020 DLP TÞ502 3/3/93 930095-14	6-TP7-02 N/A 3/3/93 930095-15	
ANS-1,3-D JCHLOROPROPENE CHOFORM NETNYL-2-PENTANOXE NEXANOXE TRACHLOROETHENE 1,2,2-TETRACHLOROETMARE LIZENE LIZENE LOROBENZENE KYLUENZENE TRAL XYLENES	UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG	11 U 11 U	11 U 11 U 11 U 11 U 11 U 11 U 11 U 11 U	12 U 12 U 12 U 12 U 12 U 12 U 12 U 12 U	12 U 12 U 12 U 12 U 12 U 12 U 12 U 12 U	412 825 9699
IENOL S(2-CHLOROBETHYL) ETHER CHLOROPHENOL 3-DICHLOROBENZENE 4-DICHLOROBENZENE 2-DICHLOROBENZENE WEINTLPHENOL 2'-OXTBIS (1-CHLOROPROPA NETNYLPHENOL NITROSODI-N-PROPYLAMINE XACHLOROETNANE TROBENZENE OPHORONE NITROPHENOL 4-DICHLOROPHENOL 2,4-TRICHLOROBENZENE PHIMALENE CHLORANILINE XACHLOROBUTADIENE CHLOROJUTADIENE CHLOROJUTADIENE CHLOROJUTADIENE CHLOROJUTADIENE CHLOROJUTADIENE CHLOROJUTADIENE CHLOROJUTADIENE CHLORODUTADIENE CHLOROPHENOL 4,5-TRICHLOROPHENOL 4,5-TRICHLOROPHENOL CHLORONAPHTNALENE NITROANILINE METAYL PHTHALATE EMAPHTNYLENE	UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG	360 U 360 U	360 U 360 U	360 8 360 0	7200 UJ 7200 U 7200 U	18:82
IAPRINTLENE DINITROTOLUENE IRGANILINE IAPRINENE DINITROPHENOL TROPHENOL NZOFURAN DINITROTOLUENE MYL PHTNALATE	UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG	360 U 360 U 860 U 860 U 360 U 360 U 360 U 360 U 360 U 360 U	360 U 360 U 870 U 360 U 870 U 360 U 360 U 360 U 360 U 360 U	360 U 360 U 880 U 880 U 880 U 880 U 360 U 360 U 360 U 360 U	7200 U 7200 U 17000 U 7200 U 17000 U 17000 U 7200 U 7200 U 7200 U 7200 U	MAY 18 '93

				- -		~
• .			OATA SUMMARY REMEDIAL INVESTIGATION CTO NCB CANP LEJEUNE, NORTH C/ CASE No. 19133 SDG No. 6-0	ROLINA	Page 12 05/12/93 c:\toxpr	oz/baker/en.00
Date 1	ocation: 6- Depth: M/ Sampled: 3/ Lab Id: 93 Units	/k /3/93	6-TP5-02 N/A 3/3/93 930095-13	6-TP5-020 DUP 7P502 3/3/93 930095-14	6-TP7-02 R/A 3/3/93 930095-15	6
JORENE NJ TRDANJLJNE	UG/KG UG/KG	360 U 860 D	360 U 870 U	360 U 880 U	7200 U 17000 U	8
-DINITRO-Z-METNYLPHENOL ITRISODIPHENYLANINE	VG/KG UG/KG	860 U 360 u	870 U 360 u	880 UJ 360 UJ	17000 U 7200 U	82S
RONOPHENYL PRENYL ETHER	UG/KG	360 U	360 U	360 W	7200 U	
(Achlorobenzene Itachlorophenol	UG/KG UG/KG	360 U 860 U	360 U 870 U	360 UJ 880 UJ	7203 U 17000 U	412
NANTHRENE	UG/KG	360 U	360 8	360 41	7200 U	
HRACENE N-BUJYL PHTHALATE	VG/KG VG/KG	360 U 360 U	360 U 360 U	360 UJ 360 UJ	7200 V 7200 U	
ORANTHENE	UG/KG	360 V	360 U	360 UJ	7200 U	
BAZOLE Ene	UG/KG UG/KG	360 U 360 U	360 U 360 U	360 UJ 360 W	7200 U 7200 u	
YL BENZYL PHTHALATE	UG/KG	360 U	360 U	360 W	7200 U	•
-DICHLOROBENZIDINE	UG/KG	360 U	360 U	360 W	7200 U	
ZO(A)ANTHRACENE YSENE	UG/KG UG/KG	360 U 360 U	360 U 360 U	360 UJ 360 UJ	7200 U 7201 U	
(2-ETHYLHEXYL)PHTHALATE	UG/KG	360 U	360 U	360 UJ	7200 U	
N-OCTYL PATHALATE 20(8)FLUORANTHENE	UG/KG UG/KG	360 U 360 U	360 U 360 U	360 UJ 360 UJ	7200 U 7200 V	
ZO(B)FLUORANTHENE ZO(K)FLUORANTHENE	UG/KG	360 U	360 U	360 03	7200 U	
ZOCA)PYRENE	UG/RG	360 U	360 U	360 UJ	7200 µ	
ENO(1,2,3-CD) PYRENE	VG/KG VG/KG	360 U 360 U	360 U 360 U	10 03E 0 03E	7200 U 7200 U	
BENZ(A,N)ANTHRACENE NZO(G,N,L)PERYLENE	UG/KG	360 U	360 U	360 UJ	7200 U	

Р.7

•

D.		DATA SUNMARY REMEDIAL INVESTIGATION CTO NCB CAMP LEJEUNE, MORTH CA CASE NO. 19133 SDG NO. W	Page 1 05/11/93	PAGE, ØØB	
Dept Date Sumple	n: 6-7P2-02 h: N/A d: 3/3/93 d: 30095-10	6-TP3-02 R/A 3/3/93 30095-11	6-TP4-02 ዘ/A 3/3/93 30095-12	6-TPS-02 H/A 3/3/93 30095-13	L.
ALUMINUM MG/ ANTINOMY MG/ ARSENIC MG/ BARSUN MG/ CARSENIC MG/ BERYLLIUM MG/ CAUCIUM MG/ CAUCIUM MG/ COPPER MG/ COPPER MG/ IROM MG/ IROM MG/ IROM MG/ IROM MG/ SELERIUM MG/ SILVER MG/ SODIUM MG/ THALLIUM MG/ ZINC MG/	KG 4.60 UR KG 2.20 B KG 0.63 U KG 0.63 U KG 0.63 U KG 2.12 0 B B KG 0.63 U KG 2.12 0 B B KG 2.7.40 B CG 4.680 00 B CG 9.30 J CG 9.30 J CG 197.00 B CG 3.60 U CG 3.60 U CG 0.63 U CG 0.63 U CG 0.63 U CG 0.63 U CG 0.60 U CG 12.40	3490.00 4.10 UR *0568*8- (7.66388- 0.19 U 0.56 U 22.50 U *2.50 0.56 U 1.10 J8 1610.00 -3450797***********************************	3540.00 4.60 UR 20.70% 8:00% 9:50 U 4:3.60 0.63 U 95.50 U 4:3.60 0.63 U 1.20 J8 1950.00 24:40* 1.20 J8 1950.00 24:40* 1.20 J8 1950.00 24:40* 1.20 J8 1950.00 24:40* 1.20 J8 1950.00 24:40* 1.20 J8 1950.00 24:40* 1.20 J8 1950.00 24:40* 1.20 J8 10.63 U 1.20 J8 10.63 U 1.20 J8 1.20 J8	11300.00 J 4.50.UR 118.70 B 0.20 U 0.61 U 508.00 B 10.90; 0.79 B 2.90 B 6740.00 J -4.30.90; 321.00 B 7.10 0.06 U -33508; 436.00 B (0707; 10 0.59 V (17.70 ± 5.40 U	412 825 9699

.

.

MAY 18 '93 10:03

I.

:

÷

ת ה

í

ת ב		DATA SUNHARY REMEDIAL INVESTIGATION CTO-0133 MCB CAMP LEJEUME, NORTH CAROLINA CASE No. 19133 SDG No. 430002
	: 6-TP5-02D	6-TP7-02
	DUP TP502	N/A
Date Sampled Lab [d:	30095-14	3/3/93 30095-15
ALUNTHUN MG/KO	3980,00 J	2189.00
ANT LHONY MG/KG	i 4.30 UR	5.10 UR
ARSENIC MG/KI		3.50
BARIUN HG/KI		59.50*
BERYLLIUM HG/K		0.23 U
CADNIUN NG/KO		0.70 U
CALCIUM NG/KG		324.00 8,
CKRONIUK MG/KO		1.50 B
COBALT NG/KG		0.70 U
COPPER # NG/KG		43:00 B
IRON MG/KG		7200.00
LEAD A NG/KO MAGNÉSILIN MG/KO		133.00 1
NANGANESE MG/KO KNERCURY MG/KO		\$12.60
NEXCOLUTION NOVING		0.05 V 4.00 V
PUTASSIUM KG/KG		173.00 1
SELENIUM MG/KG		23.304
SILVER " NG/KG		0.70 u
SDD JUH		239.00 u
THALLIUN HG/KG		0.65 U
VANADIUN MG/KG		\$3:601B
ZINC MG/KG	2.40 U	4.50 U

Page 2 05/11/93

.

1

412 825 9699

PAGE.009

Ç

ת י

saker .
Baker Environmental re Door
Project Location <u>CAMP LETEVINE</u> Project No. <u>19133</u>
Project Manager <u>RPW</u> Telephone <u>(919) 451 - 1725</u>
Logger <u>KEN MARTIN</u> Sampler <u>PAM KJM TFT</u>
Weather OVERCASE 70 07 Date 11/5/92 Time 1020
Image: Steel Image: Steel <td< td=""></td<>
Drum Size: 85 5 5 42 30 16 10 5 Other
Drum Contents: Amount Full 3/4 1/2 1/4 < 1/4 MT
Drum Condition: Good 🗌 Fair 🗌 Poor 🕅
Physical State Color Clarity Layer pH 6 PID 0.5 ppm Thickness
The Inches Diag () ()
si $\overrightarrow{p_1}$ $\overrightarrow{p_2}$ $\overrightarrow{p_1}$ $\overrightarrow{p_2}$ $\overrightarrow{p_1}$ $\overrightarrow{p_2}$ $\overrightarrow{p_1}$ $\overrightarrow{p_2}$ $\overrightarrow{p_1}$ $\overrightarrow{p_1}$ $\overrightarrow{p_2}$ $\overrightarrow{p_1}$ $\overrightarrow{p_1}$ $\overrightarrow{p_1}$ $\overrightarrow{p_2}$ $\overrightarrow{p_1}$ $\overrightarrow{p_1}$ $\overrightarrow{p_1}$ $\overrightarrow{p_1}$ $\overrightarrow{p_2}$ $\overrightarrow{p_1}$ </td
т Х /"
M X X /" MFG Name $_{MKMCJN}$
BXXX4" Chemical Name UNENOWN
Additional Information: NO CABEL INFO

LABORATORY COMPATIBILITY ANALYSES

	Phys	ical S	State		Color	C	Clarity	ł	Water Sol.	React.	pН	Hex. Sol.	Per.	Orid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A • Air W • Water	Std. Unit	SorI	+ or -	+ or •	+ or -	+ or -	+ or -	or T
т	X		X			\times			S	-	6	Ī	_			-	-	7180'F
М																		
В																		
	nmer B Cou				<u>rea</u>					= <u>LAR</u> 7 87		، د،د	4 <i>cc_s</i>	<u>بر سرم،</u> - د	s W ö: K ap	ατέ (' τρ. _ Λ	ONS ID: YOZ	<u>r</u> rD

PCB Conc.	~A	ppm	Flash Point	782	•C
4					

Т

)

Data Reviewer ______ Compatibility Comp. Bulk No. ______ 6- 3c5

Field Reviewer ______KSM //AM

Baker	Enviro	nmental	ite i								Drum No. Doo2
Proj	ect I	юса	tion	<u></u>	C	AMP	LE	Γευ	<u> </u>		Project No 9 133
Proj	ect I	Mana	ager	ہ -	R	PW					Telephone (919) 451-1725
Logg	er	<u>K</u>	<u>'</u> J^	1							Sampler PAM KJM TFT
Weat	ther		<u>07</u> 2	RCA.	sT_	70	F			Date	11/5/92 Time 10.32
Drui	n Ty	vpe:		Fib Pol	er y-Li	ned [] S] R	teel .ing'	Гор	Poly Closed	Stainless Steel Nickel Overpacked
Drui	n Si	ze:	85		i	55 🕅	4	2		30 🗌	16 10 5 Other
Drui	n Co	onter	nts:	Am	oun	tFull	XI	3/4	4 🔲	1/2 🗌	1/4 🗌 <1/4 🗌 MT 🗍
Drui	n Co	ondi	tion:		Goo	a 🗌			Fai		Poor 🕅
Г		Phys	ical S	itate		Color	(Clarit	y	Layer	pH + Fri PID 015 ppm
╞						Use			ø	Thickness Inches	Rad Meter 0.0/ mr/hr
	Layers	Liquid	Solid	Gel	Sludge	Std. Colors	Clear	Cloudy	Opaque		Other FID = 1 PPM Level 3G
F	т	X					Х			12	· · · · · · · · · · · · · · · · · · ·
	м	X					X	\checkmark		12	MFG Name UNKNOWN
′ [В	X			X	BR		X		12	Chemical Name
Add	ition	al I	nfor	mati	on:	<u></u>	5 , ~ ,	<u> </u>	AR	άξ Bun	IG UNKNOWN
			·								······································

I.

٩

)

3

¥

,

Biel-Stein Point + or - C Or F **Physical State** Color Clarity Water React. pН Hex. Per. Orid. CN Sul. Sol. Sol. A - Air W - Water Std. Sol. Use SorI + or -+ or • + or -+ or -Opaque Sludge Cloudy Layers Liquid Std. S or I Unit Clear Solid Density Gel Colors Х Х Т S X 6 I ------------------____ <u>GR</u> ____ 7180 М В .

Comments: NOTE FOR THE PURPOSE OF LA	6 ANALYSES ALL SAMPLES WERE CONS. DERED TO
PCB Conc. <u>~</u> ppm Flash Point	- E. C Be Forking Ayers
Data Reviewer MOB /KJM	Compatibility Comp. Bulk No CoCo2
Field Reviewer KIM/ Paint	

32	ke																		
Bakı	er Envira	nmenta	i,++												D	rum No). Dol	03	
Pro	ject	Loca	tion	<u> </u>	Ca~	IP L	Lē Ja	ευλι	<u>r</u>			Pr	oject N	lo	1913	33			
Pro	jectl	Man	ager	و بر 	RF	?w		<u> </u>				Te	lephor	1e _	(919) 44	51 - 1	725	
Log	ger		КJ	M							Sa	mpler	_PA	m	K2W	TFI			<u></u>
Wea	ather	•	0 <i>V C.</i>	KCA	<u>sr</u>	7.	9 ° F	-		_ Dat	e _	11/5	192	Ti	ime _	10.	36		·
Dru	ım T	ype:	X	Fib Pol	er y-Lir	ned		teel ling '	Гор	Pol Clo	y sed T	op [] Stai] Ove	nless S rpacke	Steel ed] Nicl	cel	
Dru	ım Si	ze:	85		5	5 🕅	4	2		30 📋	10	5	10 [δ	Othe	r		
Dru	ım C	onte	nts:	Am	ount	Full		3/4	4 🔲	1/2		1/4 🛛	ģ.	<1/4 []	мт []		
Dru	ım C	ondi	tion:	1	Goo	a 🗌			Fair			Poor	Ø						
		Phys	sical S	State		Color		Clarit	y	Layer		pH			PI	D	0.5	PI	m
					i i	Use Std.		- b	e	Thicknes Inches	_	Rad	l Mete	r	0,0	2		m	r/hr
1	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque			Oth	ier _	F10=	1 PPI	ч		-2/02=	BG
1	T	× ×					X			3	-				_ <u>.</u>	<u>.</u>			
	м	× X					×			 3		MF	G Nam	ne <u>D</u>	Rew	CHEM	ICAL	Corp.	<u></u>
) 1	В	X			×	BR			×	1 🖉		Che	emical	Name	<u></u>	<u>م ب ه لم ۲</u>	<u>ر</u>		
Ad	ditio	nal I	nfor	mati	on:				MAU	L Bu,	16	89-	049	091	5 E			iriπ+, -0P	J
		10				ATCR													
r	D	sical S	State		Cold		ABO Clarit		TORY Wal	COMP	ATII	BILITY	ANAI Hex.	LYSES Per.) Orid.	CN	Sul.	Biel-	Flash
	r nyi	sical 2		1	UB.				So So	1.	Air	pri Std.	Sol.	rer. + or •	+ or •	+ or •		Stein + or •	Poin
2	P		ļ .	88	Std		Ap	enb	So		Water								or T

		Рђу	lical 2	state		Color	(Jarit	y	Water Sol.	React.	рн	Her. Sol.	Per.	Und.	CN	Sul.	Stein	Point
	Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	+ or -	+ or -	+ or -	+ or •	°C 6r°F
Γ	т	X					X			S	-	7	I	-		-			7180
Γ	м																		
	в																		

Comments: _	NOTE	F 0,2	THE	PURPOLO OF	LAB	AA	- NLYSES	ALL	SAMPLES	were	Consiport
PCB Conc.	NA	pp	m	Flash Point _	782	2	•C	70	Be S.N	418 CAY	YINZ (tilly
Data Review	er	MDG	_/ĸJ	74	_ Co	mpa	tibility (Comp. Bi	ulk No	6- Bc.4	•
Field Review	ver	(JM/	PAN	-1							

Extent and communicative interval in the second state interval interva	Baker
Project Location CAMP LEJEUNE Project No. 19133 Project Manager Rhw Telephone (914) $451 - 1725$ Logger KJM Sampler PAM KJM Weather $Dvenc Arst$ $70'S$ Date $11/5/92$ Time 10247 Drum Type: Fiber Oly-Lined Ring Top Closed Top Overpacked Nickel Drum Type: Poly-Lined Ring Top Closed Top Overpacked Nickel Drum Size: 85 55 42 30 16 10 5 Other Drum Contents: Amount Full $3/4$ $1/2$ $1/4$ MT MT Drum Condition: Good Fair Poor M $M = 5$ PID 0.4 ppm $\frac{1}{5}$ $\frac{9}{5}$ $\frac{9}{5}$ $\frac{9}{5}$ $\frac{1}{6}$ 0 0 0 0 $M = 5$ $0 = 5$ $0 = 5$ $0 = 7$ $0 = 7$ $0 = 7$ $0 = 7$ $0 = 7$ $0 = 7$ $0 = 7$ $0 = 7$ $0 = 7$ <td>Baker Environmental, es Doog</td>	Baker Environmental, es Doog
Logger KJM Sampler PAM_{KJM} Weather $Dveac Avst}$ $70'S$ Date $11/S/92_{T}$ Time 1047_{T} Drum Type: Fiber Biber Biber Steel Poly Stainless Steel Nickel Drum Type: Poly-Lined Ring Top Closed Top Overpacked Nickel Drum Size: 85 55 42 30 16 10 5 Other	
Weather Dverce ASST TO'S Date $H/S/SL$ Time 10.47 Drum Type: Poly-Lined Ring Top Closed Top Overpacked Nickel Drum Size: 85 55 42 30 16 10 5 Other	Project Manager "
Prum Type: Fiber Steel Poly Stainless Steel Nickel Drum Type: Poly-Lined Ring Top Closed Top Overpacked Nickel Drum Size: 85 55 42 30 16 10 5 Other	Logger KJM Sampler PAM KJM
Drum Size: 85 55 42 30 16 10 5 Other	Weather <u>DvancAST</u> 70'S Date <u>11/5/92</u> Time <u>1047</u>
Drum Contents: Amount Full $3/4$ $1/2$ $1/4$ MT Drum Condition: Good Fair Poor M Physical State Color Clarity Layer Thickness pH 5 PID 0.4 ppm Rad Meter 0.2 mr/hr Other $f_{10} = 1$ Pom $Lel 0_2 = BG$ T X I X I/2 NF Inches NF Other $f_{10} = 1$ Pom $Lel 0_2 = BG$ M X I Image: New Product New Product New Product New Product New Product New Product New	Image: Steel Image: Steel <td< td=""></td<>
Drum Condition: Good \Box Fair \Box Poor \square $ \frac{Physical State}{Color} Clarity Layer Thickness} Inches PH 5 PID 0.4 ppm Rad Meter 0.2 mr/hr r = \frac{r}{D} = r$	Drum Size: 85 5 55 42 30 16 10 5 0ther
Physical StateColorClarityLayer Thickness InchespH5PID 0.4 ppm $\frac{1}{1}$ $\frac{1}{10}$ $\frac{1}{10$	Drum Contents: Amount Full 🕅 3/4 🗌 1/2 🗍 1/4 🗍 <1/4 🗍 MT 🗍
Thickness Thickness Inches $\frac{1}{2}$ $$	Drum Condition: Good 🗌 Fair 🗌 Poor 🕅
I = 1 $I = 1$ <	
T X IZ M X IZ M X IZ B X IZ OBANGE X I IZ MFG Name	The Transferrer Tr
M X ORMER 12 MFG Name UNKNOWN B X ORMER X 12 Chemical Name UNKNOWN Additional Information: NO LABEL INFORMATION Small (Pin Hille) RUST HOLES	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
B X ORANGE X 12 Chemical Name UNKNOWN Additional Information: NO LABEL INFORMATICA SMALL (PIN HILL) RUST HOLES	т Х /2
B X ORANGE X 12 Chemical Name UNKNOWN Additional Information: NO LABEL INFORMATICA SMALL (PIN HILL) RUST HOLES	M X ORWEX & 12 MFG Name UNKNOWN
	Additional Information: NO LABEL INFORMATICA SMALL (PIN HOLE) RUST HOLES
LABORATORY COMPATIBILITY ANALYSES	

	Phys	ical S	State		Color	(Clarity	7	Water Sol.	React.	pН	Hex. Sol.	Per.	Orid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	+ or -	+ or -	+ or •	+ or -	or F
т	\times					×			5		5	T						7180
м																		
в																		

Comments:	NOTE	FOR TH	e Perpesse of	- 44 B	ANAL	YSES	ALL SA	mfils	wirzz	(CNS. Daris D 1	5
										re trer they	
CB Conc.	NA	ppr	n Flash Po	int	> & Z	°C				~ ~	

Data Reviewer ______ Compatibility Comp. Bulk No. ______ Compatibility Comp. Bulk No. ______

Field Reviewer	KINI FAM
	74.97 7 7 7 7 7 7 7

the second second second second

\$

÷

λ

;

Be	ke	r									
Bak	er Envlia	nmenta	L14 .								Drum No. Doo 5
'ro	jectl	Loca	tion		CA,	mP	LE JE	נעלי	ş		Project No. 19133
Pro	ject l	Man	ager	ہ -	/	RPW					Telephone (919) 451-1725
Log	ger	·	К	JN	(· · · · · · · · · ·		Sampler KJM PAM TET
Wei	ather	·	012	FILC P	<u>\5</u> T	70	5			Date	11/5 Time 1056
Dru	m Ty	ype:		Fib Pol	oer ly-Li	ned] S] R	teel ling '	Гор	Poly Close	Stainless Steel Nickel d Top Overpacked
Dru	ım Si	ze;	85			55 🕅	4	2		30 🔲	16 10 5 Other
Dru	ım Co	onte	nts:	An	ioun	tFull		3/-	4 🗌	1/2] 1/4 🗍 <1/4 🕅 MT 🗍
Dru	ım Co	ondi	tion:		Goo	a 📋			Fai		Poor 🕅
		Phys	sical S	State		Color	(Clarit	y	Layer	pH <u>6</u> PID <u>22,2</u> ppm
		-			6	Use Std.		Þ	en	Thickness Inches	Rad Meter mr/hr
1	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Other $FID = 20 PPM LEL O_2 = BG$
	т	X	x							3	·
' }	м	X								3	MFG Name UNKNOWN
Í	В	×								2	Chemical Name <u> </u>
Ado	dition	nal I	nfor	mati	on:					DR-	30 3 MAY BE 1255 THEN 311
											· · · · · · · · · · · · · · · · · · ·

LABORATORY COMPATIBILITY ANALYSES

	Phys	ical S	itate		Color	C	Clarity	Ÿ	Water Sol.	React.	pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	+ or -	+ or -	+ or-	+ or •	C F
Т	×					\times			S		6	I				—		7180
М																		
в																		
1										413 /m 7 82		<u>s</u> 10	<u></u> इन ८०	<u>1017253</u> 5-2440	1. C.N.	<u>Lê C</u> o, Yerê (ns i pen Terki yi	<u></u> 7"

Field Reviewer KIM/ PAM

and the second second second

)

;

3	Ke																	
Bakı	er Enviro	nmental	, fre .									-		D	rum No	о. Дос	6]
'ro	ject l	юса	tion		CA~	IP .	LEJE	tv~e	r	<u> </u>	_ Pr	·oject l	lo					
Pro	ject I	Mani	ager	~	RF	w					_ Те	lepho	ne _	(919)) 45	1- 17	25	
]										Sai								
ſ										Date <u>1</u>								
Dru	m Ty	pe:		Fib Pol	er y-Line	d [] S] R	teel ing I	Fop 🕅	Poly Closed Te]] qo] Stai] Ove	nless S rpack	Steel ed] Nick	cel	
Dru	m Si	ze:	85		55	\boxtimes	42	2	30	16		10		5	Othe	r		
Dru	m Co	ontei	nts:	Am	ountl	ull [3/4		1/2	1/4 [<1/4 [мт [ב		
Dru	m Co	ondi	tion:		Good	Π			Fair [Poor	- - 171	_					
,														PI	n d	2,5	pr	m
1	T	Phys				Use		larity	Thi	ayer ckness iches	_			_				
	8r.8	lid	-5			Std.	ង	Cloudy	Opaque		•						m	
	Layers	Lig	Solid	Gel	Sludge	0101 8	Clear	Clo	Opa		Oti	her _	-10=	I PPA	1 1	EL OZ	= BG	<u> </u>
	т	X						X		4				· · · · · · · · · · · · · · · · · · ·				
•. j	м	Х						\times	\$	B	MF	'G Nan	ne	NKN	own			
Í	в	\times	\times					Х		2	Ch	emical	Name	UNI	KNON	/~		
					•													
Ada	lition		nfor	mati	on:	A	203	r (5 D.E.	BRIS P. LUBE	RESA	م را م ا				75	TRIPLO RINSE	5)
3/	<i>.</i>				/													
	+	Liqu	<u></u>	W	<u> </u>	OLID	31-11	<u>D</u> =	EMUSI	FIED L	AYETL		τυΡ	131	ACK	- OILAS	οςτ <u>ζ</u> α	<u></u>
						L	ABO	RAI	ORY CO	OMPATIE	BILITY	ANA	LYSES					
	Рьу	ical S	itate		Color		Clarit	у	Water Sol.	React.	pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colori	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or •	+ or -	+ or -	+ or -	+ or -	°C or F
Т	X					X	X		5		7	I	-					7180

м

в

)

Comments: <u>~~</u> -	E FOR THE F	REPOSE OF LAR ANALYSES ALL SALITIES WERE COLLEDOUCH
PCB Conc~	ppm	Flash Point 782 °C
Data Reviewer	MOB KJM	Compatibility Comp. Bulk No. 6-803
Field Reviewer	KUM / PAM	

Baker														
Baker Environmental, D & Ø 7														
Project Location <u>CAMP LEJEUNE</u> Project No. 19133														
Project Manager <u><i>RPW</i></u> Telephone <u>(919)</u> 451-1725	1													
Logger KJM Sampler PAM KJM TFT														
Weather OVORCAST MID 70'S Date 11/5/92 Time 115														
Fiber Steel Poly Stainless Steel Nickel Drum Type: Poly-Lined Ring Top Closed Top Overpacked														
Drum Size: 85 5 5 42 30 16 10 5 0ther														
Drum Contents: Amount Full 3/4 1/2 1/2 1/4 <1/4 MT														
Drum Condition: Good 🗌 Fair 🗌 Poor 🗖														
Physical State Color Clarity Layer pH 7 PID 0.5 ppm Use Inches Bad Meter 0.01 mr/hr														
Use Inches Rad Meter 0.01 mr/hr														
Thickness g_{1} g_{1} g_{1} g_{2} $g_{$														
т 🗴 🛛 🕺 4.														
$M \times \times X 4 MFG Name UNKNOWN$														
B X X X 10 Chemical Name UNKNOWN														
A LOT OF. DEBRIS PRESENT Additional Information: NO LID 1/2 LIQUID W DEBRIS (BRAKE FLUID CAN WIRE	etc)													
LEAKAGE AT BOTTOM OF DRUK HAS SOLIDIFIED (EMULSIFIED														
LABORATORY COMPATIBILITY ANALYSES														
Physical State Color Clarity Water React. pH Hex. Per. Oxid. CN Sul. Biel- Sol. Sol. Sol.	Flash Point													
Use Sol. A-Air Sol. Sol.	C.F.													
T X X X S - 7 I	7180													
M														
B														
Comments: 11072 FOR THE PURPOSE OF LAB AWALYSES ALL SAMPLED WORE (Nos. DOLED) TO BE Sincle CAYOL	73.0													

PCB Conc. <u>w</u>A ppm Flash Point <u>>82</u> °C

Data Reviewer MOB KIM Compatibility Comp. Bulk No. 6- 803

Field Reviewer NTM /PAM

3

ł

<u>=</u> E	Ke	T																	
Bake	er Enviro	nmental	ine j	Ì						_					Dr	um No). 70	¢¢8	
Pro	ject l	Loca	tion		CAMI	ρ,	LEJ	. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				_ Pro	oject N	o	1913	3	<u>_</u>		
Pro	ject l	Mani	ager	•	R-F	21	w					_ Te	ephon	.e <u>(</u>	(919)	451-	- 172	5	
Log	ger		K.	JΜ				·			Sar	npler	PA	M	KJM				
										Date									
Dru	ım T	ype:		Fib Pol	er y-Line	a [] S] R	teel ing I	Cop	Poly Clos	, ed To	op [] Stain] Oven	aless S rpacke	teel ed	C] Nick	el	
Dru	ım Si	ze:	85		55		4	2	3	30 🗌	16		10 [5 🖾	Other	r		
Dru	um Co	onte	nts:	Am	ountF	^r ull [3/4		1/2 [1/4 [] •	<1/4 [ZĮ	мт []		
Dru	ım C	ondi	tion:		Good				Fair			Poor	Ø						
		Phys	ical S	itate		Color	(Clarity		Layer Thicknes		pН		6	PI	<u>/</u>	. 4	pr	m
		-			1	Use Std.		<u>></u>		Inches		Rac	l Meter	r	.01			m:	r/hr
	Layers	Liquid	Solid	Gel		olors	Clear	Cloudy	Opaque			Oth	er £	-10 =	ZPP	n i	LEL 102	= 134	ź
	Т	×						X		# 2		<u> </u>			•				
	м	×					X			₽ 2		MF	G Nan	1e	ALVO	5425			
	в	×					Х			2	7	Che	emical	Name		المسكريم	o wal		
	ditio Poce							Buc Ful	•	V.	1210	Ú í	ر کے ان	·DE,		d HA	5		
r										COMP							01	P (-1	I Flas
	Phy	sical	State	,	Color	<u> </u>	Clarit	у ,	Wat Sol		act.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Poin
	- E			ge	Use Std.		dy	ent	Sol Sor		- Air Water	Std. Unit	SorI	+ or •	+ or -	+ or -	+ or -	+ or -	°C or T

Layers	Liquid	Solid	Gel	Sludge	Std. Colors	Clear	Clouds	Opaqu	S or I Density	W - Water	Unit							6rT)
Т	×					X		×	5	-	6	Ţ	_	-	-			7180
м																		
В										<u> </u>	[L	[l		

Comments: Nore For THA PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERTO TO 3

) PCB Conc. ~~~ ppm Flash Point <u>> 82</u> °C Single Layor

Data Reviewer MOB/KJM

والاستنجاب وهورا ولاحت محكان

_____ Compatibility Comp. Bulk No. <u>6- 36-</u>

Field Reviewer KIM / FAM

Ba	ke		1								
Bake	r Enviros	nmental		İ							Drum No. DØØ9
Proj	ect I	юса	tion		CAI	мР	LE	TUN	ē.		Project No. 19133
Proj	iect I	Mans	ager		R	PW					Telephone (919) 451 - 1725
Log	ger		K.	JΜ						<u> </u>	Sampler PAM KJM
											11/5/92 Time 1326
Dru	m Ty	pe:		Fib Pol	er y-Li	ned [] S] R	teel ling '	Гор	Poly Close	d Top Overpacked Nickel
Dru	m Si	ze:	85		i	55 💢	4	2		30	16 10 5 Other
Dru	m Co	ontei	nts:	Am	oun	tFull {	ZI.	3/4	4 🗖	1/2	1/4 🗌 <1/4 🗌 MT 🗌
Dru	m Co	ondi	tion:		Goo	d 🗌			Fair		Poor 💢
1		Phys	ical S	State		Color	(Clarit	y	Layer	pH PID ppm
	-			[Use Std.			0	Thickness Inches	Rad Meter mr/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Other FID= jPPM LEL Dz-BG
	т	X						X		8	·
	м	X						X		8	MFG Name OCTAGON PROCESS INC.
	В	X						X		8	Chemical Name הע מעארט
1						DLA	4-01	<u> </u>		0-0-6	DE) ~ 3/4 FULC b) LOT F-18981-B, OCTAGEN PROCESS INC C- STAMPED C.4 SIDE OF DRUM
						L	ABC	RA	ror	Ү СОМРА	TIBILITY ANALYSES

	Phys	ical S	tate		Color	(Clarity	7	Water Sol.	React.	pH	Hex. Sol.	Per.	Orid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	°C or*F				
Т	\times					X			5		6	I		-	-	-	-	:7180
М																		
В																		

Comments: North FOR THE FORPESS OF LAB ANALYSES ALL SAMPLES WERE CONS. DEMED TO BE STARLE CHYLIC

) PCB Conc. <u>NA</u> ppm Flash Point <u>782</u> °C

)

Data Reviewer ______ Compatibility Comp. Bulk No. ______

Field Reviewer KIM/ PAM

Baker
Baker Environmental. ve
roject Location <u>CAMP LEJEUNE</u> Project No. <u>19133</u>
Project Manager RPw Telephone (914) 451-1725
Logger KJM Sampler PAM KJM
Weather OVERCAST 70'S Date 1/5/92 Time 1332
Image: Steel Image: Steel <td< td=""></td<>
Drum Size: 85 55 🕅 42 30 16 10 5 0ther
Drum Contents: Amount Full 🛛 3/4 🗍 1/2 🗍 1/4 🗍 <1/4 🗍 MT 🗍
Drum Condition: Good 🗌 Fair 🗌 Poor 🕅
Physical State Color Clarity Layer pH <u>t</u> PID <u>0, 2</u> ppm Thickness
Use Inches Rad Meter .0, 2 mr/h
signature a_{11} a_{12} $a_$
T X I I X I I X I I X I I X I I X I I X I I X I I X I I X I I X I I X X I X X I X X I X X I X X I X
) M X 12 MFG Name UNKNOWN
$\begin{bmatrix} B \\ X \\ \end{bmatrix} \begin{bmatrix} V \\ 1 \end{bmatrix} \begin{bmatrix} V \\ 1 \end{bmatrix} Chemical Name \\ V \\ V \\ N \\ N \\ M
Additional Information: NO LABEL INFO

LABORATORY COMPATIBILITY ANALYSES

	Phys	ical S	itate		Color	C	Clarity	7	Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A • Air W • Water	Std. Unit	S or I	+ or -	C T T				
т	×					×			5		6	I			-			7180
м																		
В																		

Comments:	Nort	íon.	TNY	PURPOSE	0ł	640	ANALYSES	ALL	SHAMPLES	wike	CENS, DOMO	0	<u>3:</u>
			-								5.246		

PCB Conc. <u>~~</u> ppm Flash Point <u>~82</u> °C

L

3

Data Reviewer MOB/KIM Compatibility Comp. Bulk No. 6-601

	x=101	
Field Reviewer	KUM/FAM	

Ba	ke																	
Bake	r Environ	mental,												Dr	um No	. _Д	×1×	
Proj	ject L	ocat	ion		CAM	ρ	12.	Then	ž		Pi	oject N	o/	19133				
											Te						:5	
Log	ger		k	(J~	۱					5	Sampler	PAN	1 K	JM		,	- <u></u>	
Wea	ther		γŧ	CAS	٢	70'	<u>s</u>		<u></u>	Date	11/5/	ir	Tù	me	1332	3		
	-			Poly	/-Line	d [ing I	'op 🛛	Closed	Тор [] Over	packe	ed				
						v					16							
Dru	m Co	nter	ts:	Am	ount I	rull [3/4	Ø	1/2 🗌	1/4 [<1/4		MT []		
Dru	m Co	ondit	ion:	-	Good				Fair		Poo	r 🛛						
		Phys	ical S	tate		Color	C	larity		ayer ickness	рH		7	_ PI	<u>ן</u> מ	1,1	pp	m
	Layers	Liquid	Solid	Gel	e	Use Std. Colors	Clear	Cloudy		nches	•	d Meter						
			<u></u>															
	T M	<u>×</u>		<u>×</u>		RANGZ		×		2	M	FG Nan	ie v	NKN	لديره			
,	B	X			1	nlancie Nanza				12		emical						
	<u> </u>	ł		1		<u> </u>								•				
1									,		00 - 18			GLOS	suces	FLO	ATINC	لده :
L						L	ABO	RAI	ORYC	OMPA	TIBILIT	Y ANA	LYSES	3	·····			
	Phys	ical S	itate		Color	T	Clarit	У	Water Sol.	React	L pH	Hex. Sol	Per.	Orid.	CN	Sul.	Biel- Stein	Flas Poin
Lavers	Liquid	Solid	Gel	Sludge	Use Std. Color	Clear	Cloudy	Opaque	Sol. S or I Density	A - Ai W - Wat		SorI	+ or -	+ or -	+ or -	+ or -	+ or -	°C Gr*F
Т	×					×			5		7	I	-	_	-	-		718
м									ļ							_		<u> </u>
в							1	1	ł						1	1		

Comments: Note For THE PURPOSE OF LAG ANALYSES ALL SAMPLES WERE CONS. D. ALED TO BE

) PCB Conc. _____ ppm Flash Point _____ °C

Single LAYINZ

Data Reviewer MDB / KJM

ì

Compatibility Comp. Bulk No. 6-803

Field Reviewer KINI / PAN

Ba	ke																		
. Bake	r Enviro	nmental	,f4t						<u></u>						Dr	um No	D¢	12	
 Proj	ject I	Joca	tion	_	CAM	110	LETÉ	UNE				Pr	oject N	o	19133				
Pro	ject I	Mana	nger		RI	PW_						Te	lephon	e _	(919)	451-	- 172	5	
Log	ger	<u></u>	K	JM							Sa	mpler	PA	M	KJM	TF	r		
Wea	ther		01	inc	AST	70	<u>'s</u>				Date	<i></i> /s		Ti	me _	1355		,,,,	
Dru	m Ty	pe:		Fib Pol	er y-Lin	ed [] S] R	teel ing I	Гор	M	Poly Closed T	op [] Stain] Over	nless S rpacke	iteel ed] Nick	el	
Dru	m Si	ze:	85		55	5 🕅	42	2 🗌		30	16	3 🗆	10 [5	Other	• <u> </u>	<u></u>	
Dru	.m Co	onter	nts:	Am	ount	Full 🐐	ð	3/4	۱X		1/2	1/4 [] ·	<1/4 [мт 🗌]		
Dru	m Co	ondi	ion:		Good				Fair	C		Poor	Ø						
		Phys	ical S	itate	<u> </u>	Color		larity			ayer	pH		6	_ PI	D <u>2</u>	84	pp	m
						Use Std.					ches	Rad	l Mete	r	0,	2		m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque			Oth	ier	FID =	1000		EL 10-	<u>= Bç</u>	
	т	\checkmark				BRand			\star	7	ı				•	<u></u>			
	м	*				Beaud			×	1	2	MF	'G Nan	ie	UNKI	10WA	/		
1	В	X				BROW			¥	1	2	Ch	emical	Name	LUB	RICAT	ING	OIL	
Add	litio	nal I	nfor	mati	on:	0214	D0.	-30	s Lu	BRI	CATING	014,	INTE	KNAL	Com	Bustl	<u>ع لمه</u>	NGINE	
TAC	TIC A	<u> </u>	Seri	116	MI	L-L-	2/0	04D	j	AP	RIL 198	3 (0	LATED	AT	Diese	2 DAN	KS BL	04 82	
L						T.	ABO	RAT	ORY	7.00) MPATII	RILITY		YSES					
	Phys	sical S	state		Colo		Clarit		Wat	er	React.	pH	Hex.	Per.	Oxid.	CN	Sul.	Biel-	Flash
	q			ø	Use Std.		ly .	9 n	So So So	1.	A - Air W - Water	Std. Unit	Sol. S or I	+ or •	+ or -	+ or •	+ or •	Stein + or -	Point •C or F
Layers	Llquid	Solid	Gel	Sludge	Color		Cloudy	Opaque	Den		H - HAUCI								
Т	×				BRUL	~~		×	I		-	6	5	-	-	-	-	-	7182
м								ļ							ļ				
В							Ì												
Сог	nme	nts:	,	t ži	on 11	א או	. RPC	se c	OF C	AB	ANALY.	ses Ac	(SA)	MALES	isch	≠ (°c,	U3,0=1	N 70	BE
											782						وندري	LE LA	Yeri
		-			08/							patibi	lity Co:	mp. Bu	uk No.		<u>- </u> 30	6	

Field Reviewer KIM / PAM

L

)

١

30	ke	ſ																
Bake	e Enviro	nmental	.t e	Ī						• 				Dr	um No	. D¢	>13	
Pro	ject I	Joca	tion	_4	ĊAN	nP 1	E JE	500	·		Pro	oject N	o	1913	3			
Pro	ject I	Mana	ager	_	Î	RPU	1				Te	lephon	e <u>(</u>	919)	451	- 172	5	
Log	ger		K	TM						St	ampler	PA	m k	(5m	TFT	-	····-	
Wee	ther		ove	RLA	s <u>r</u>	70	<u>′3</u>			Date _	11/5/	92	_ Ti	me _	1417			
Dru	m Ty	/pe:		Fib Pol	er y-Liı	ned		teel ing '	rop [] Poly Closed 7	Top] Stain] Ove:	nless S rpacke	iteel ed	C] Nick	el	
Dru	m Si	ze:	85		ŧ	55 🕅	4	2	3	0 🗌 🛛	16 🗌	10 [5 🗌	Other	r		
Dru	m Co	ontei	nts:	Am	oun	tFull		3/4	4 🗌	1/2 💢	1/4 []	<1/4 [мт []		
Dru	m Co	ondi	tion:		Goo	d 🗌			Fair		Poor	Ø						
		Phys	ical S	State		Color		Clarit		Layer	pH	6	2	PI	D _ C	<u>,7</u>	pp	m
		_				Use Std.		۸,		Thickness Inches	Rac	l Mete	r	0,7			m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaquo		Oth	ier _/	FID:	0	Lē	<u>2102 =</u>	<u>B</u> 4	
	т	Х				ઉર			X	4		<u></u>	<u></u>	<u>.</u>				
	м	X				GL			X	Ġ	MF	G Nan	ne	UNKA	1000	/	<u></u>	
	B	X				ва			X	4	Che	emical	Name	LUB	RICAT	ING	OIL	
						Ör												
Ado	litio	nal I	nfor	mati	on:	LUBR	CAT	ING	OIL	INTERN	AL CON	4B.371	0 2 E	<u>श्रे स् र</u> म्	. 8	I JAK	526	
· 01	I Ŕ	ACK	0	<u>, wa</u>	<u>'7'</u>	SIDE	ł	/ACV	1 <u>7</u> 0	Ν ΤΟΡ								
	·					L	ABO	RAI	TORY	COMPAT	IBILITY	ANA	LYSES	5				
	Phys	sical S	State		Col		Clarit	у 	Wate Sol.		pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Us Sto Colo	1. j	Cloudy	Opaque	Sol. Sor Densi	I W-Wate		S or I	+ or -	+ or -	+ or -	+ or -	+ or -	с Ц.
Т	X				BRO	~~~		X	Ī	-	6	S	-	-				7,80
м																		ļ
В																		
Cor	nme	nts:	Not	- 2	For	140	Pur	Pusi	OF	(HIS A	NALYSZ	S MILL	<u>.</u>	1-1-25	Were	e C	0.05.0.	<u>(1:1)</u>
) _{PC}	B Co	nc.	^	JA		ppm	J	Flasl	1 Poin	t <u>>8</u>	<u>2</u> •C				TO 1	3: 5.	ritect	(حا بر
Dat	ta Re	view	/er	<u></u>	DB,	/ K T M				Co:	mpatibil	lity Co	mp. Bı	ilk No.	(ii)	- B07		<u></u>
Fie	ld Re	eviev	ver	<u>_K</u> .	TM	(PAM			_									

3	ke																		
. Bak	er Envin	onmenta	l, i ≈												D	rum N	o. D g	¢ 14	
 Pro	ject	Loca	ition	_	CAI	nP	12	JU.	~ 2			Proj	ect N	lo.					
Pro	ject	Man	ager	• -	R	Pu	ر ا					Tele	phor	ie .	(919)) 451	- 772	25	
Log	ger			KJ	M						Sample	er _	ŀ	AM	<u>K3</u>	TM			
We	ather	•	OVEN	LCAS	۰ ۲	70'5				Date		5 / 9	2	T	^{ime} -	143	0	<u>-</u>	
Dru	ım T	ype:		Fib Pol	er ly-Lin	ed	S R	teel ling '	Top] Poly Closed	l Top		Stai Ove	nless rpack	Steel ed	C] Nicl	cel	
Dru	ım Si	ze:	85		5	5 🕅	4	2] 3	0 🗌	16		10		5 🗌	Othe	r		
Dru	ım C	onte	nts:	Am	ount	Full	Ø	3/4	4 🔲	1/2 🗌	1/	4 🗌		<1/4		мт [כ		
Dru	ım C	ondi	tion	:	Good				Fair		P	oor	Ø						
		Phys	sical	State	T	Color	(Clarity		Layer hickness]	H_		6	P	ID	120	p	рт
	Layers	Liquid	Solid	Gel	Sludge .	Use Std. Colors	Clear	Cloudy		Inches					0				
	т	X					×			12	-				·	<u></u>			<u></u>
)	м	X					۲			12]	ИFG	Nan	1e	UNEN	10WN			
	В	X					\checkmark			12		Cher	nical	Name	WH	ITE	KER	OSZ NE	5
	dition ALYZ			mati Tol		WH17			OSENT KELY	DAMA	AND 1	.D	0~	101	P A.	ND	5108	5	
						L	ABO	RAT	ORY	COMPA	FIBILI	TY A	NAI	LYSES	\$				
	Phys	ical S	State		Colo		Clarit	y	Water Sol.	React	L pl		Ier. Sol.	Per.	Orid.	CN	Sul.	Biel- Stein	Flash Point
Layors	Liquid	Solid	Gel	Sludge	Use Std. Color	ч	Cloudy	Opaque	Sol. S or I Densit			l. S	or I	+ or -	+ or -	+ or -	+ or -	+ or •	°C or F
Т	X					×			Ī		6		5	-	-	_		_	7180

Comments: Noté For THE PURPOSE OF LAB ANALYSES ALL SAMPLES NOCE CONS, DOWN <u>TO B</u>2

) PCB Conc. <u>NA</u> ppm Flash Point 782 °C Single INYCL

М В

Ì

\$

ş

Data Reviewer MOB / KIM Compatibility Comp. Bulk No. 6-BCG

Field Reviewer KJm / PANI

35	ke																	
Bake	er Envira	nmenta				•								Di	rum No). D	¢ 15	
Pro	ject]	Loca	tion	_	CAN	nP	LE TI	ځ در دړ	-		Pr	oject N	lo	1913	3			
														_				
Log	ger			k	JM					S	ampler	PA	M	KJN	1			
										Date								
Dru	m T	ype:		Fib Pol	er y-Liı	ned		teel ling '	Гор 🕅	Poly Closed	Top [] Stai] Ove	nless S rpack	Steel ed] Nick	cel	
Dru	m Si	ze:	85		ŧ	55 🕅	4	2	30		16 🗌	10		5 🗌	Othe	r		
Dru	m C	onte	nts:	Am	oun	Full		3/4	4 🕅	1/2 🗌	1/4 [כ	<1/4 [мт []		
Dru	m C	ondi	tion:		Goo	d 🗌			Fair		Poor	Ø						
		Phys	ical S	itate		Color		Clarit		Layer lickness							<u>•</u> pr	
	8	_				Use Std.		Å		nches	Rad	d Mete	r	0.			m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Oth	ner	FID =	D DD	LEL	0 <u>1</u> = <i>B</i>	m: <i>АСКУ</i> М	lovo
	т	ト					X	X	i	a"				·				
	м	X					×	X		'a"	MF	'G Nan	ne <u> </u>	NKNO	wal			
	В	X					×	\times	/	a"	Ch	emical	Name	Kon	05CN	ş		
Add	litio	nal I	nfor	mati	on:	APP	EAR	5	TO BEK	έποςενί	<u> 578</u>	NCILE	<u> </u>	U <i>31</i>	D.đ			
						L	ABC	RAT	TORY C	OMPAT	IBILITY	ANA	LYSES	3				
	Phy	sical S	State		Col	or	Clarif	у	Water Sol.	React		Hex. Sol.	Per.	Orid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gol	Sludge	Us Std Colo	ւլյ	Cloudy	Opaque	Sol. S or I Density	A - Air W - Wate		SorI	+ or -	+ or -	+ or -	+ or -	+ or -	°C T

ວັ ວັ ວິ

Ι

Comments: Nort FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WITH Cousidenced To Re Single Cayou

)PCB Conc. <u>NA</u> ppm Flash Point <u>> 82</u> °C

Х

Data Reviewer <u>MDB/KJM</u> Compatibility Comp. Bulk No. <u>6-Bcc</u>

S

6

7180

Field Reviewer KJM / HM1

:

ł

1

\$

2

Х

Т

М

В

3	K														,				
Bal	ket Envir	onmenta	al tre												D	rum N	o. –	016	
ro Pro	oject	Loca	ation	-	<u>Ca~</u>	IP L	<u>E T E</u>	VNE				_ Pi	oject l	۲٥.		9133			
Pro	oject	Man	ager	, <i>*</i>	ĸ	PN				·		_ те	lepho	ne .	(919	<u>i) 4</u>	Si - 1	125	
Lot	gger			Ku	7~1						San	npler	P	AM	KJN	۱ TF	T		
We	athe	r _	<i>P.</i>	C	<u>(000</u>	۶ <u>ــــــــــــــــــــــــــــــــــــ</u>	60	<u>)'s</u>		Date		11/6	192	Т	ime _	07	52		
										D Poly Close									
Dru	um Si	ize:	85		5	5 🕅	4	2]	30	16		10		5	Othe	r		
Dru	um C	onte	nts:	An	nount	Full	X	3/	4 🗌	1/2 []	1/4 [<1/4		MT []		
Dru	um C	ondi	tion	:	Good	4 🗌			Fair			Poor	· 🛛						
	—	Phys	sical S	State		Color		Clarit	y	Layer Thickness		рH	<u></u>	5	P	ID	03	PI	òm
	rs	þ			ge	Use Std.		dy	ənl	Inches		Ra	d Mete	r	0,3			m	r/hr
1	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque			Oth	er _	Fid=	0,5	LEL	107 =	Bg	
	т	X					Х			12					· ·		<u></u>		
)	м	Х					X			12		MF	'G Nan	1e	UNKA	Jowa	,		
É	В	¥					X			12		Ch	emical	Name		1~~0	~~		
Ad:	dition اورک	nal I		mati		- ~~ 32 -	RAW	ì	ARC	. <u>c</u> Bu~		~	10 L	ABEL	<i></i>	£6			
									OR	Y COMPA	TIB	ILITY	ANA	LYSES	5				
	Phy	sical S	State		Colo		Clarit	у	Wa Sc	ol.		рH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
ł					Use		1.		Sc	A-A	ir 🗌	Std.	SorI	+ or -	+ or •	+ or -	+ or -	+ or -	•C

Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sol. S or I Density	A - Air W - Water	Std. Unit	Sol. S or I	+ or -	+ or -	+ or •	+ or -	Point °C or F
Т	X					×			S		5	I	_		-		 7180
м																	
В																	•

Comments: Note FOR THE PARPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDENTION TO

CB Conc. <u>NA</u> ppm Flash Point <u>782</u> °C

B? Single LAYOR

Data Reviewer <u>MDB / KJM</u> Compatibility Comp. Bulk No. <u>6-604</u>

Field Reviewer KJM /PAM

)

1

Baker
Baker Environmental, es Do17
roject Location <u>CAMP LETEUNE</u> Project No. <u>19133</u>
Project Manager " RPW Telephone (919) 451-1725
Logger KJM Sampler PAM KJM TFT
Weather <u>P. Cloudy 60'5</u> Date <u>11/6/92</u> Time 0758
Fiber Steel Poly Stainless Steel Nickel Drum Type: Poly-Lined Ring Top Closed Top Overpacked
Drum Size: 85 5 55 42 30 16 10 5 Other
Drum Contents: Amount Full 3/4 🕅 1/2 🗌 1/4 🗍 <1/4 🗍 MT 🗍
Drum Condition: Good 🗌 Fair 🗌 Poor 🔀
Physical State Color Clarity Layer pH 6 PID 0, 4 ppm Thickness
The The Trebes Dist in O /
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Τ Χ Β
M X A MFG Name UNKNOWN
B X V OROWA X X 4 Chemical Name UNKNOWN
Additional Information: NO LABEL INFO. DRUM IS UPSIDE DOWN W 1/3 OF
BOTION OPEN
LABORATORY COMPATIBILITY ANALYSES

I.

ð

ţ

	Phys	ical S	State		Color	C	Clarity	Ŷ	Water Sol.	React	pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	+ or •	+ or -	+ or -	+ or -	°C or*F
Т	×					×			S		6	I	-	-	-			7180
м																		
В																		

Comments:	NOTE	FUR	THE	PURPOSE	OF	CAB	HNALYSES	ALL	SAMPLES	witt	CONSIDENCY	TU Br
ì											Singue	(AY OL
PCB Conc.	NE	<u> </u>	ppm	Fla	sh Poi	nt _	782	°C				

Data Reviewer MOB / KJM

Compatibility Comp. Bulk No. 6.802

Field Reviewer Kim/PAM

Baker
Baker Environmental, et al. Det 18
Project Location <u>CAMP LETERNE</u> Project No. <u>19133</u>
Project Manager <u><i>RPW</i></u> Telephone <u>(919)</u> 451-1725
Logger KJM Sampler PAM KJM TFT
Weather <u>P. CLOUDY 60's</u> Date <u>11/6/92</u> Time 0758 0810
Image: Steel Image: Steel <td< td=""></td<>
Drum Size: 85 5 5 2 42 30 16 10 5 Other
Drum Contents: Amount Full 🗍 3/4 🗍 1/2 🗍 1/4 📈 <1/4 🗍 MT 🗍
Drum Condition: Good 🗌 Fair 🗌 Poor 🗖
Physical State Color Clarity Layer pH PID, 4 ppm
Thickness Use Inches Rad Meter Ø, 2 mr/h
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
T X X 4 2
M X W X K K I MFG Name UNKNOW N
B X 4 CHANNE X & K I Chemical Name UNKNOWN
(STENLILED ON TOP)
Additional Information: DRUM HAS SIGNS OF BULGING TRIPLE RINSED 060486

LABORATORY COMPATIBILITY ANALYSES

	Phys	ical S	itate		Color	C	Clarity	7	Water Sol.	React	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flasl Poin
Layers	Liquld	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	•C or*F				
т	×					×			5		7	I	_					7180
м																		
в																	_	

PCB Conc. <u>~~</u> ppm Flash Point <u>~82</u> °C

Data Reviewer Mos / Kom Compatibility Comp. Bulk No. 6-304

The second second second second second

1

;

Field Reviewer Kim/PAM

Ba	ke																		
Bake	r Enviro	nmental	-	İ											Dr	um No). D	\$ 19	
Proj	iect I	-oca	tion		CA,	MP	<u>LC JI</u>	2 مرمد	, 			Proj	ject N	o	1913	<u>'3</u>			
Proj	ect I	Mana	ager			PPW						Γele	ephon	e)	919	<u>) 45</u>	172	5	
Log	ger		K	JM						§	Sample	r _	PA	MA	KJM	TF-	<u> </u>		
										Date									
Dru	m Ty	/pe:		Fib Pol	er y-Liı	ned		teel ing I	Top 🛛	Poly Closed	Тор		Stair Over	iless S packe	iteel ed] Nick	el	
Dru	m Si	ze:	85		6	55 🕅	4	2	30		16 🗌		10 []	5	Other	r		<u></u>
Dru	m Co	ontei	nts:	Am	ount	t Full		3/4	L	1/2 🗌	1/4			<1/4	<u>Z</u>]	мт 🗌]		
Dru	m C	ondi	tion:		Goo	d 🗌			Fair		Po	or	Ø						
		Phys	ical S	tate		Color		Clarity		Layer	P	H	Ö		_ PI	D(0,4	pi	pm
						Use Std.		b	T	ickness nches	F	lad	Meter	• •	6	13		m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque	ĺ	C	the	er _/	E10=	0,5		EL 02	: 730	ź
	Т	×				AQUA			X	2	-				•		<u></u>		
	м	X				AQUA			×	1	I	1FC	Nam	.e/	FROST	VAESK	£		
	B	×				AQUD			X	1	Ċ	Che	mical	Name	עט_	KNOW	w	····	
																•			
Add	litio	nal I	nfor	mati	on:	FRO:	<u>st v a</u>	ESKE	<u> </u>	- 750	689	50-	- 25 -	120	<u>- 59 c</u>	1			
	198	3	PRO	000	τ	N.R.	96	8 %											
							. = -												
r	Dh.	sical S	Stato		Col		ABO Clarit		Water	OMPA'			ANAI Her.	Per.	Orid.	CN	Sul.	Biel-	Flas
	r uy		Juane	r	Us			1	Sol.	A - Ai			Sol.	+ or -	+ or •	+ or -	+ or -	Stein + or -	Poin
Layers	Liquid	Solid	Gel	Sludge	Sta Cole	a. y	Cloudy	Opaque	Sol. S or I Density	W - Wat				τ υι •	1 01 •	T 01 *	1 01 *		°C or F

в	 												
	 -7	k ,	THIS	542	Per	tir	15	NOF	5010	Fe.L	422	ر ب ۲۷ ک	 Ret

Х

5

Comments: NoTE FOR THE PURPOSE OF LAB ANALYSEI ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYOR

λ.						
}	PCB Conc.	NA	ppm	Flash Point	<u>>82</u>	°C

AQUA

Data Reviewer MOB/KJM

Compatibility Comp. Bulk No. _____

I

8

+

ENUVER SANIALE

7180

Field Reviewer KJM/PAM

)

\$

à

Х

Т

М

Ba	ke																				
Bake	er Enviro	nmental	, 14														D	rum No	». D	¢ 2ø	
 Pro	ject l	Loca	tion	_	ĊA.	mP		100	www.	ē				Pr	oject N	ło		33			
Pro	ject l	Man	ager		R	Pu	/							Te	lephor	1e _	(919)	451	- /72	5	
Log	ger				K	T~1						s	Samp	ler	_ <u></u> PA	~ ,	KJM	TFT	-		
Wes	ther		/	ρ.	CLO	<u>. 07</u>						Date		161	192	T	ime _				
Dru	m Ty	/pe:		Fib Pol	er y-Li	ned] S] R	teel ing'	Гор		Poly Closed	Тор] Stai] Ove	nless f rpack	Steel ed	Γ] Nick	cel	
Dru	m Si	ze:	85		ŧ	55 🕅	L	42	2		30		16 [10		5	Othe	r		
Dru	m Co	onte	nts:	Am	ioun	t Full	Γ		3/4	4 🔲		1/2	1	./4 []	<1/4	× (MT [)	
Dru	m Co	ondi	tion:	:	Goo	d []			Fair	- [Ŧ	Poor	· 🛛		R	CRA	MT		
		Phys	ical S	State		Colo	r	C	larit	ÿ		ayer		pН			P	(D	17	pr	m
	Layers	Liquid	Solid	Gel	Sludge -	Use Std Colo		Clear	Cloudy	Opaque		ckness nches								m z = B	
		<u>а</u>	<i>й</i> 	U	ß		-	0	<u>с</u>	0				•				£	20010	<u> </u>	
	T M													MF	'G Nan	ne /	INKN	ιοωλ			
	В	-					╉						•.								
Add	litio			mati Mr		N	2	(4	-8EC		NF	ō.					-	255			
•																					
	Phys	ical S	state		Col	or		BO			Y CO	OMPAT React		JTY oH	ANA.	LYSES	S Oxid.	CN	Sul.	Biel-	Flas
Layers		Solid	Gel	Sludge	Us Sta Cola	e	Clear	Cloudy	Opaque	So So	<u>əl.</u>	A - Air W - Wate	s	itd. Init	Sol. S or I		+ or -	+ or -	+ or -	Stein + or -	Poin °C or F
	ר ר	Ś	6	ŝ	 			с 	°	<u> </u>											ļ
T M							_					<u> </u>		· · · · · · · · · · · · · · · · · · ·							<u> </u>
B					 								_		 						
<u> </u>				1	I		l		L	<u> </u>	<u> </u>	1	I		1	I <u></u>	1_,,	L	I	I	1
1	nmei	-						·····										<u></u>			
PCI	B Co	nc.				ppm		F	last	ı Poi	nt			°C							

Ŧ

¥

1

١

3

¥

3

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer

32	ke	1															·	
Bake	r Enviro	nmenta	14									·····		Di	rum No	». Do	¥21	
 Proj	ject l	Loca	tion		CA	mP	Lat		·		Pr	oject N	lo	1913	3			
Pro	ject l	Man	ager	_	\mathcal{R}	ΡW					Te	lephor	ne 🤇	919)	451	- 172	5	
Log	ger		<u> </u>	K	ŢМ	<u></u>				Sai	mpler	<u></u>	\sim	PAN	1			[
Wea	ther		<i>P</i> .	CLO	204	60	<u>, 'S</u>			Date	11/6	/92	Ti	me _				
Dru	m Ty	/pe:								Poly Closed To					C] Nick	el	
Dru	m Si	ze:	85		ŧ	55 🛛	4	2	30		6 🗌	10 [5 🗌	Othe	r		
Dru	m Co	ontei	nts:	Am	ount	Full		3/4	4	1/2	1/4 5	Z)	<1/4 [7 (MT [ר נ		
Dru	m Co	ondi	tion:	-	Goo	d 🗌			Fair		Poor	· Ø		RC	RA	MT		
		Рһу	ical S	State		Color		Clarit		ayer ickness	pH			PI	D	0,4	pp	m
	r 8	p			ø	Use Std.		dy	en L	nches	Ra	d Mete	r	0	3		mi	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Otł	her _	FID=	0,3	LE	2 02:	ठिव	
	Т													·				
)	M										MF	'G Nan	1e(INKN	10~~~	ر 		
	В					<u></u> .					Ch	emical	Name	100	RICA.	1124	016	
								7	RCRA	MT								
Add	litio	nal I	nfor	mati	on:	LUGA	l' LA	ערדו	6 Orc	- IN TEX	NAL	Combi	Lorten	(ETC)/	APRI	C 83	
									<u></u>									
						T.	ABO	RAI	ORYC	OMPATIH	SILITY	ANAI	LYSES		<u></u>			
	Phys	ical S	State		Col		Clarit		Water	React.	pH	Hex.	Per.	Oxid.	CN	Sul.	Biel-	Flash
Layers	Liquid	Solid	Gel	Sludge	Us Std Colo	և բ	Cloudy	Opaque	Sol. Sol. S or I Density	A - Air W - Water	Std. Unit	Sol. S or I	+ or -	+ or -	+ or -	+ or •	Stein + or -	Point °C or F
						_ _		Ļ		ļ								

i

•

ş

ł

4

Т														
м														
в														
١				pp			Point		_•C				 	
Dat	a Re	eview	ver	 	 <u></u>	<u> </u>		Com	patibil	lity Co	mp. Bu	ulk No.	 	
Fiel	d Re	eviev	ver	 										

Ba	ke																	
Bake	:r Envira	inmenta	l, 1•e 🦾											D	rum No	0. Da	¢z2	
Pro	ject]	Loca	tion		CAN	1,0	LEJI	<u>ع</u> يد م			Pr	oject N	- lo	1913	3			
Pro	jectl	Man	ager		RI	o is					Te	elephor	ne <u>(</u>	(919)	45	-1 - 17	25	
Log	ger				ΚΓΙ	И				Sa	mpler	P	AM	KJ,	<u>~ 7</u>	FT		
										Date _								
Dru	m T	ype:] Poly] Closed T] Nick	cel	
Dru	m Si	ze:	85		5	5 🕅	4	2	3		6	10		5 🗌	Othe	r		
Dru	m C	onte	nts:	Am	ount	Full		3/-	4 🔲	1/2	1/4 [Z	<1/4 [мт []		
Dru	m C	ondi	tion:		Good	1 🗌			Fair		Poor	· Ø						
		Phys	sical S	itate		Color		Clarit		Layer	pH		5	_ PI	ی D	0,4	PI	om
	æ					Use Std.		×		hickness Inches	Ra	d Mete	r	0,3			m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Otl	her _/	FID=	0,2		LELO	2: B	9
	т	メ					*			2				•				
)	м	X					X			2	MF	G Nan	1e	NKNI	ندس			
	В	X					X			2	Ch	emical	Name	UN.	KNOW	لە		
Add	litio	nal I:	nfor	mati	on:	NO	<u> </u>	ABEL	- 11	EO (ENTIR	E DR	um k	USTY)				
				<u> </u>		Ļ	ABO	RAI	ORY	COMPATI	BILITY	(ANA)	LYSES	3				
	Phys	sical S	State		Colo	r	Clarit	y	Water Sol.	React	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
ayers	lquld	bolid	lei	ludge	Use Std. Color	. 5	loudy	onpaquo	Sol. S or I Densit		Std. Unit	SorI	+ or •	+ or -	+ or •	+ or -	+ or •	°C or °F

_	Phys	ical S	itate		Color	C	Clarity	,	Water Sol.	React	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or •	+ or -	+ or •	+ or -	+ or •	°C or°F
т	\times					×			S		5	I	-	-	—			7120
м																		
В																		

PCB Conc. NA ppm Flash Point <u>> 82</u> °C

Data Reviewer MDB / KJM

Compatibility Comp. Bulk No. _____ らい4

Field Reviewer KIM / PAM

;

÷

ł

ì

JM,	רק א	41	M
-----	------	----	----------

Ba	ke										·
Bake	r Enviror	mental	116	l		-					Drum No. Dø23
Proj	iect I	.oca	tion	_(CAN	NP L	. E VIA	ځ رېر			Project No1913.3
Proj	ject N	lana	ager		R	PW	<u>-</u>	<u></u>			Telephone (919) 451-1725
Log	ger			ΚΓΙ	~						Sampler <u>Pam KJM</u>
Wea	ther		ρ.	CL	000	Y	60'	<u>'</u> S		Date	11/6/92 Time
Dru	m Ty	pe:		Fib Pol	er y-Li	ned [] S] R	teel .ing '	Гор	□ Poly ⊠ Close	☐ Stainless Steel ☐ Nickel d Top ☐ Overpacked
Dru	m Si	ze:	85		ţ	55 🕅	4	2		30 🗌	16 10 5 Other
Dru	m Co	onter	a ts:	Am	oun	tFull [3/4	4 🔲	1/2 🗌] 1 222 <1/4 ⊠ (MT ⊠)
Dru	m Co	ondi	tion:		Goo	a 🗌			Fai		Poor A RCRA MT
		Phys	ical S	State		Color		Clarit	y y	Layer	pH PID ppm
						Use Std.		*	e	Thickness Inches	Rad Meter mr/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaquo		Other $F_{ID} = LEL 0_2 =$
	т										·
	м										MFG Name UNKNOWN
1	в										Chemical Name UNKNOWN
										Less TH	HW I" RCRA MT
Add	litio	nal I	nfor	mati	ion:	DRU	м :	Seri	crece of	y Den	RUSTED NO LABEL INFO
									•		
						\mathbf{L}	ABO	RA	ror	Y COMPA	TIBILITY ANALYSES

Biel- Flash CN Sul. **Physical State** Color Clarity Water React. pH Her. Per. Orid. Stein Point Sol. Sol. •C or•F Std. A - Air Use Sol. S or I + or -+ or -+ or • + or -+ or -Opaque Cloudy Sludge Layers Liquid S or I W-Water Unit Std. Clear Solid **Bensity** Gel Colors т М В Comments:

) PCB Conc. _____ ppm Flash Point _____ *C

Data Reviewer

;

•

ì

Compatibility Comp. Bulk No. _____

Field Reviewer

								- <u></u>			Drum No. DØ24
Proj	ect l	Loca	tion	-	CA.	mp (I The	NE			Project No. <u>1913.3</u>
Proj	ect l	Man	ager		K	PW					Telephone (919) 451 - 1725
Logg	ger		/	KJA	1					8	Sampler <u>Pam KJM TFT</u>
Weat	ther	·	Ρ.	Ċ	1004	р у	60	د'		Date	11/6/92 Time 0927
Drui	m Ty	ype:		Fib Pol	er ly-Li	ned [teel ling	Тор	D Poly Closed	Stainless Steel Nickel Top Overpacked
Drui	m Si	ze:	85			55 🛛	4	2]	30	16 10 5 Other
Drui	m Co	onte	nts:	Am	ioun	tFull [3/-	4 🔲	1/2	1/4 🖾 <1/4 🖄 MT 🗖
Drur	m Co	ondi	tion		Goo	d 🗌			Fair		Poor 🛛
Γ		Phys	ical	State	.	Color		Clarit	y ·	Layer	pH <u>5</u> PID <u>6,4</u> ppm
ŀ						Use Std.		~	e	Thickness Inches	Rad Meter <u>0.3</u> mr/h
	Layers	Liquld	Solid	Gel	Sludgo	Colors	Clear	Cloudy	Opaque		Other $F_{1D} = 0.2$ Let $0_2 = Bq$
F	T	×						X		2	·
-	м	×						۰ ۲		ł	MFG Name
f	в	×						×		1	Chemical Name נאשטאאעט
		<u>-</u>		<u> </u>	·	*****		<u></u>		•	
Add	ition	nol Is	nfor	mati	07.	Kla	1	ز مسی	1.1		ALTER REST (IT & ALL AT)
					<u>.</u> чц.		<u>_40</u>		1.01	<u> </u>	PLETELY RUSTED (NEAR INFLATABLE RAFTS)

Т

Ŧ

,

)

١

5

è

···	Phys	sical S	State		Color	(Clarity	Ÿ	Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or •	+ or -	+ or -	+ or •	+ or -	°C Or P
Т	Х					X			5		5	Ī	-					7180
м																		
в																		

Comments: Nore For THE	URPOSE OF LAB ANALYSES ALL SAMPLES W	one Cussioning To
) PCB Conc. <u>NA</u> ppm		BE STUGLED (A YEILS I)
Data Reviewer <u>MDB / KJM</u>	Compatibility Comp. Bulk No.	6- 301

Field Reviewer KJM/ PHM

Baker
Baker Environmental, re
Project Location <u>CAMP LEJUNE</u> Project No. <u>19133</u>
Project Manager <u>RPW</u> Telephone <u>(919)</u> 4-51-1725
Logger KJM Sampler PAM KJM
Weather <u>P. Cloudy 60'S</u> Date <u>11/6/92</u> Time <u>0913</u>
Image: Steel Image: Steel <td< td=""></td<>
Drum Size: 85 55 42 30 16 10 5 0ther
Drum Contents: Amount Full 3/4 1/2 1/4 1/2 <1/4 MT
Drum Condition: Good 🗌 Fair 🗌 Poor 🕅
Physical State Color Clarity Layer pH 5 PID 0.3 ppm
Use Inches Rad Meter 0.3 mr/hr
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
T X X 2
M K X 2 MFG Name UNKNOWN
B + Chemical Name UNKNOWN
Additional Information: CORROSIVE CABEL GREEN FIBER/POLY DRUM
LABORATORY COMPATIBILITY ANALYSES
Physical StateColorClarityWater Sol.React.pHHex. Sol.Per.Oxid.CNSul.Biel- SteinFla.Sol.Sol.Sol.Sol.Sol.Sol.Sol.SteinPoi
single Use Use Sol. A · Air Std. SorI + or · · · ·
T X S - 5 I 710
M
B

Comments:	NOR	FOR	THE	PULPUSE	Ur	LAG 1	4~.407	1503	ALL	SANIPLES	No	=162	CUS.DI	-n - D
) PCB Conc.	NA		ppm	Flash P	oint	7 č	52	•C			<i>7</i> 2	<u>ि</u> स	Since	LAY:

Data Reviewer MOB / KJAI Compatibility Comp. Bulk No. 6- BC4

\$

3

)

)

Field Reviewer KIM / MAN

Baker
Baker Environmental, w Do 8-6
Project Location <u>CAMP LETUNE</u> Project No. <u>19133</u>
Project Manager <u>RPN</u> Telephone <u>(919)</u> 451-1725
Logger KJM Sampler PAM KJM TFT
Weather <u>P. CLOUDY 60'S</u> Date <u>11/6/92</u> Time <u>0919</u>
☐ Fiber ☐ Steel ⊠ Poly ☐ Stainless Steel ☐ Nickel Drum Type: ☐ Poly-Lined ☐ Ring Top ☐ Closed Top ☐ Overpacked
Drum Size: 85 55 🖄 42 30 16 10 5 0ther
Drum Contents: Amount Full 🗌 3/4 🗍 1/2 🗍 1/4 🖾 <1/4 🖾 (MT 🗍
Drum Condition: Good 🗌 Fair 🗌 Poor 🛛 RCRA MT
Physical State Color Clarity Layer pH PID ppm
Use Std. 2 5 Use Inches Rad Meter Rad Meter
signal signal signal signal signal mr/hr signal signal signal signal signal mr/hr signal signal signal signal signal mr/hr signal signal signal signal signal signal signal
T T T
M MFG Name UNKNOWN
B Chemical Name UNKNOWN
RCRA MT
Additional Information: NO BUNG ON TOP OF DRUM. LID IS FAPED ON
JUSPECTED CORROSIVE
LABORATORY COMPATIBILITY ANALYSES
Physical State Color Clarity Water React. pH Hex. Per. Oxid. CN Sul. Biel- Flash
vvv
T
M
B

Comments:	
) PCB Conc ppm	Flash Point •C
Data Reviewer	Compatibility Comp. Bulk No.

Field Reviewer

٩

١

Ba	ke	ſ																
Bak	er Envira	nmenta	1,00											D	rum N	0. Do	-52	
Pro	ject	Loca	.tion		CAM	ρ	LE JE	une	<u>.</u>		_ Pr	oject N	ło	1913	3			
Pro	jectl	Man	ager	-	RI	on s					Τε	lephor	ne ((919)	451	- /72	25	
Log	ger			K	TM			<u></u>		Sar	mpler	PA	M	KJN	TFT	-		
1										Date								
Dru	ım T	ype:		Fib Pol	er y-Line	d [] S] R	teel ing '	Fop 🗌	Poly Closed To] qo] Stai] Ove	nless S rpack	Steel ed] Nick	cel	
Dru	ım Si	ze:	85		55	Ø	4	2	30	16	5 🔲	10		5	Othe	r		
Dru	ım C	onte	nts:	Am	iount F	'ull		3/4	£ 🔲	1/2	1/4 6	Z	<1/4	ΣÍ	мт [
Dru	ım C	ondi	tion:	:	Good				Fair [Poor							
		Phys	ical S	State		olor		larity		ayer	Нq	•	5	P		9,3	ıq	m
						Use			Thi	ckness iches								
	Layers	Liquid	Solid	Gel		Std. olors	Clear	Cloudy	Opaque							EL 02:		
	La	1	တိ	Ğ	50		Ū	ົວ	ō		01				£	CL OL		
	Т	×							<u>× /</u>	,				·				
	м	×								2								-
	B	¥							x /		Ch	emical	Name	<u></u>	JENO			
	litio He			mati	on: _	Miss	.,~/4		LAKGI	BUNG	Ċo.	~ <i>TA</i> ~.	. NAT <u>El</u>	> 01	<u>(57</u>	ZNC12	50 0	~
L						L	ABO	RAI	ORY CO	OMPATIE	SILITY	ANA	LYSES					<u></u>
	Phys	sical S	State		Color		Clarit		Water	React.	pН	Hex.	Per.	Oxid.	CN	Sul.	Biel	Flash
Layers	Llquld	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sol. S or I Density	A - Air W - Water	Std. Unit	Sol. S or I	+ or •	+ or -	+ or -	+ or -	Stein + or •	Point °C (or F
T	X				BLOWN			X	5		5	5				-		7180
м	<u> </u>												:					

ì

•

\$

ł

в

Comments: Note Fue THE P.M.	Pase OF LAB	HNILYSES	ALL SAMPLES	WERE CONSIDERED FU
) PCB Conc ppm	Flash Point			Br Single caymen
Data Reviewer <u>Mos / KIM</u>		Compa	tibility Comp. Bull	k No. <u>6-805</u>
Field Reviewer KIM / PAM				

3	ke																	•	
Bake	Enviror	imental,	14	İ											Dr	um No	Doi	9	
Proj	ect I	юса	tion		CAN		I TU	.J E				_ Pr	oject N	o	1913	3			
Log	ger			ŀ	KJM						Sar	npler	P,	9M	KJM	TFT			
Wea	ther		Ρ.	Ĺċ	000	4	60	's			Date	11/61	42	_ Ti	me _				
Dru	m Ty	pe:		Fib Pol	er y-Lir	ned] S] R	teel ing I	Гор		Poly Closed To	op [] Stain] Over	iless S rpacke	iteel ed] Nick	el	
						'					16					\sim			
Dru	m Co	onter	nts:	Am	ount	Full		3/4			1/2	1/4 [] ·	<1/4	র (мт 🗆)		
Dru	m Co	ondi	tion:		Goo	d 🗌			Fair	Ľ		Poor	۲Ø		Pc	RAM	IT		
				tate				Clarity	,	L	ayer ckness				_ PI			pp	m
	et.					Use Std.		2			ches	Ra	d Meter	۲ <u> </u>	0.3			m	r/hr
	Layers	Liquid	Solid	Gel	Sludgo	Colors	Clear	Cloudy	Opaque			Otl	her _/	F1D = (0.5	L	EL O2	- 79	į
	т														•			<u></u>	
	м											MF	'G Nan	e <u>Ba</u>	TLEFIE	1D	AME	KILAN	Juse .
	В											Ch	emical	Name	LUB	RILA	r, ~ ~ ~ ~	016	
				mati		LUBA		TING	•	sic.	17 87 E LES					_		DATE	<u> </u>
	<u> </u>					T	480	D A T	087	7 00	OMPATII	211.177	ZANAI	VSES					
	Phys	ical S	State		Cole		Clarit		Wat	er	React.	pH	Hex.	Per.	Oxid.	CN	Sul.	Biel-	Flash
Layers	Liquld	Solid	Gel	Sludge	Us Std Colo	ւլյ	Cloudy	Opaque	So So Den:	l. r I	A - Air W - Water	Std. Unit	Sol. S or I	+ or -	+ or -	+ or -	+ or -	Stein + or -	Point °C or T
т		-																	
м																 	 	<u> </u>	
В													<u> </u>						<u> </u>
Cor	nme	nts:																	

) PCB Conc. _____ ppm Flash Point _____ °C

ł

ŝ

:

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Ba	ke									_									
Bake	r Enviroi	nmental	ite .							•					Dr	um No). Do 7	29	
Proj	ject I	-oca	tion		Cam	ρ	<u>[7]</u>	νni				_ Pr	oject N	lo	1913.	3			
Proj	ject N	Mana	ager		RPL	J						_ Te	lephon	ie (719)	451-	1725	-	
Log	ger			k	JM		-				San	npler	Pr	1,~1	KJN	1 TF	T	<u> </u>	\
Wea	ther	_/	Ρ. (200	,0Y	6	0'5			_ Date		11/6	/92	_ Ti	me _				
		-	Ō	Pol	y-Line	ed [] R	ing I	Гор [Poly Close	d To	p [] Ove	rpack	ed			el	
Dru			115: Hom	Am	Cood			0/9	Foir	1/2	נ	1/* 33	x 57	- 1/4 ¥	<u> </u>			τŢ	
Dru											7					-			
	r	Phys	ical S	itate	'	Color Use		larity		Layer Thickness Inches		_						pr	
	Layers	Liquid	id	_	Sludge	Std. Colors	Clear	Cloudy	Opaque									m	1
	La;	Lig	Solid	Gel	Slu		č	ŏ	<u>ප්</u>			Oth	ier _	FIDE		1	<u> - 2 0;</u>	_ =	
	Т									.					•		4		
)	M B										ł							12AJ, 11	
	В]	Che	emical	Name	LUB	RILATI	<u>, 16</u>	012	
			_			,				RCRA						_	_ .		
					-					VIL INT					ĩ				
-8	1	JAN	124	<u> </u>	MD	81	A	PRI	<u> </u>	255	271F	1 F12D	T0	(0N2	AIN.	1953	THAN	50P	CBS
				·		L	ABO	RAI	ORY	COMPA	TIB	ILITY	ANA	LYSES	\$				
	Phys	sical S	State		Color	·	Clarit	ÿ	Wate Sol			pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Color	1 4	Cloudy	Opaque	Sol S or Dens	I W-W		Std. Unit	SorI	+ or -	+ or -	+ or •	+ or -	+ or •	°C or"F
T																			
м														 			 		
В						<u> </u>													
Cor	nme	nts:																	

) PCB Conc. _____ ppm Flash Point _____ •C

.

¥

)

ŧ

Data Reviewer _____ Compatibility Comp. Bulk No. _____

•

Field Reviewer

	1(=																			
Bak	er Enviro	nmenta	1.11													D	rum N	0. D0	30	
 Pro	ject	Loca	tion		CAN	пΡ		LE JH	502				Pr	oject N	ło.	19133	3			
1																		_		
1			_			-						Si								
1												Date _	,							
Dru	m T	ype:		Pol	y-Li	ned	. [ing'	Гор	図	Poly Closed (rop [] Ove	rpack	ed	L		cei	
Dru	ım Si	ze:	85		l	55 J	Ø	4	2		30		16 🔲	10		5	Othe	r		
Dru	m C	onte	nts:	Am	ioun	t Fu	ull [3/4	4 🗌		1/2 🗌	1/4		<1/4 [Ă	MT		nAT	
Dru	ım C	ondi	tion:		Goo	d				Fair	[□ ¹ 1/2 □	Poor	· ¤			 K	5cla	(**	
				State			lor		Clarity		L	ayer							pr	
						U	Be td.		y	ø		ckness iches	Ra	d Mete	r				m	r/hr
	Layers	Liquid	Solid	Gel	Sludgo		lors	Clear	Cloudy	Opaque			Oth	her _	F10 =			LELO	2 =	
	T	-																		
1	м												MF	'G Nan	ne <u><i>BA</i></u>	TLEFI	ELD	Ame	CICAN,	INC.
1	В												Ch	emical	Name	Luc	BRICA	TING	OIL	
											_		. -							
Add	litio	nal I:	nfor	mati	on:	L	BR	LATI	NG			RA M		BUST	مما	I APi	<u>er 8</u>	3_		
										•		PPM								
																-				
	Phys	ical S	State		Col	or		ABO		(OR)		OMPAT	BILIT)	ANA. Hex.	Per.	Oxid.	CN	Sul.	Biel-	Flas
					Us			•	e	So So	1.	A • Air	Std.	Sol. S or I	+ or -	+ or •	+ or -	+ or -	Stein + or -	Point °C
Layers	Llquld	Solid	Gel	Sludge	Sta Cola	1	Clear	Cloudy	Opaque	S or Den:		W - Water	r Unit							or F
T																<u> </u>				
M																<u> </u>			<u> </u>	
в																				
	L			<u>. </u>	1	1		1	<u> </u>	1		1	·····	1	1	1	1	1	<u> </u>	1
		_							_											
	B Co																			
												Cor	npatibil	lity Co	mp. Bu	ılk No.				
Fie	ld Re	eviev	ver	<u> </u>																

	er Enviro	nmentja	hn:								-			D	rum N	ە. ئ	31	
Pro	ject]	Loca	tion		CAMI	0 4	-ī Ju	<u>خ</u> ىہ/			Pi	roject l	10. <u>-</u>					,
Pro	ject	Man	ager	_	RPU	J					T.	elepho	ne .	(919) 451	<u>/- /72</u>	5	<u> </u>
Log	gger	<u></u>	··· -	/	KJNI		÷			Sa	mpler	P	AM	<u></u> XJ~_	1		<u> </u>	
We	ather	•	Ρ.	CL	DUDY	<u></u>	60	<u>'</u> 5		Date _	11/61	42	T	ime _	12	48		
 Dr1				Fib	er v.Line] 5.		teel		Poly Closed T	[] Stai	nless	Steel	C] Nick	cel	<u> </u>
													-		Othe	r		
						•				1/2								
											_	r Ø						
		Phys	ical S	itate		Color	(Clarit	y I	ayer			5	P	D_12	16	pi	om
						Use			Т	ickness nches				0,.				
	Layers	Llquid	Solid	Gel	1 100	Std. olors	Clear	Cloudy	Opaque	•	•			0,5				
	Т	X							X									
	м	*							× 15	• 11	MI	G Nan	ne	INKNO	wal			
	В	Υ			X. 0	RANE			X	2	СЪ	emical	Name	Lu	BRICH	17,24	OIL	
				mati	on: <u>4</u>	_vBK		$\overline{\gamma} \sim c$	S OIL	INTER.	NAC	Coarba	57100	<u>) (q</u> /	HDE	1001	30	
8	(J	AN	26											······································				<u>_</u>
										OMPATII							<u></u>	
	Phys	ical S			Color Use	<u> </u>	Clarit	-	Water Sol.	React.	pH	Her. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flas Poin
Lavers	Liquid	Solid	Gel	Sludge	Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or •	+ or -	+ or •	+ or -	+ or -	•C or F
	×					×			5		5	I	-	-		-		7160
T										ļ								
м									[<u>.</u>	l	I				<u> </u>		
M B	nmer]	No.	-č 1	-UR TH	e pu	KIDO.	55	OF CAL	3 ANALY.	ses A	مر کے ی	mper	5 พ		~ 2 . 0 = 7 4 . 2 . L		

Field Reviewer KJM/PAM

ì

)

•

Y

	vironm	iental,												Dr	um No	·Do	32	
rojec	et Lo	ocat	ion	4	AM	P Li	TEUN	51			_ Pro	oject N	o	19133		······		
rojec	et M	ana	ger		.Rŕ	w			<u> </u>		Tel	ephon	e (919).	4-51 -	1725		
	-									Sa								
eath	er	4	<u>.</u> c	LOU	PY		2'0			Date _	11/6/9	2	_ Ti	me _	1253	<u></u>		
	Typ	De:		Fib Pol	er y-Lin	led [] S(] R	teel ing T	Cop 2] Poly Closed T	op [] Stair] Over	iless S packe	teel ed		Nick	el	
						,				0 🔲 1								<u> </u>
)rum	Cor	nten	ts:	Am	ount	Full [X	3/4		1/2	1/4] ·	< 1/4		MT 🗌]		
												,						
	F	Physi	ical S	tate		Color	C	larity		Layer hickness	pH	4	6	_ PI	D_0	,3	pp	m
	78	P			ege -	Use Std.	н	đ۶		Inches	-						mi	
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Oth	er _/	=1D=	0.2	L	EL 0	<u>,= 139</u>	
Т		$\frac{1}{2}$						Х		5	<u></u>			<u></u>				
м	4	$\frac{1}{2}$						X		15	MF	G Nam		UNKN	لہ <i>دے ہ</i>			
В	3 [`	<u>}</u>			X	ORANG		X		2	Che	emical	Name		16200	لم ل		
	•			<i>,</i> •			4 T	0		5								
									•	STENCIL		<u> </u>	TNE	5,02		<u> </u>		
ADE		_/_/	70											. <u>.</u>				
										COMPATI		ANAI Her.	LYSES) Orid.	CN	Sul.	Biel-	Fla
			LATA		Cole	or	Clarit;		Wate Sol. Sol.		pH	Sol.					Stein	Poi
Pl	hysi							1 0	1 201.			DOLT	+ or -	1 + 01 +	+ 0r •	T 01 	+ 01 -	°C or
<u> </u>	hysi	Solid	Gel	Sludge	Us Std Colo	L y	Cloudy	Opaque	S or) Densi	W-Water	Std. Unit							
Layors				Sludge	Sta		Cloudy	Opaqu		W-Water		Ī				.—		
Layors	Liquid			Sludge	Sta	Clear Clear	Cloudy	Opaqu	Densi	W-Water	Unit	Ī		-		.—		716

)

Baker	
Baker Environmental, et Do33	
Project Location <u>CAMP LEJENZ</u> Project No. <u>19133</u>	[
Project Manager <u>RPW</u> Telephone <u>(919) 451-1725</u>	
Logger KJM Sampler PAM KJM TFT	
Weather P. CLOUDY 50's Date 11/6/92 Time 1254	
Image: Steel Image: Steel <td< td=""><td></td></td<>	
Drum Size: 85 🗍 55 🏹 42 🗍 30 🗌 16 🗌 10 🗌 5 🗍 Other	
Drum Contents: Amount Full 🗌 3/4 🖗 1/2 🕅 1/4 🗌 <1/4 🗌 MT 🗌	
Drum Condition: Good 🗌 Fair 🗌 Poor 💋	
Physical State Color Clarity Layer pH 6 PID 014 pp	m
Use Std. 5 Use Std. 5 Use Use Use Use Use Use Use Use Use Use	:/hr
stateobsetobsetfinitiesRad Meter 0.5 mistatestatestatestate 0.5 mistatestatestatestate 0.5 mistatestatestatestate 0.5 mistatestatestatestate 0.5 mistatestatestatestate 0.5 mistatestatestatestate 0.5 mistatestatestatestate 0.5 statestatestatestatestate 0.5 statestatestatestatestate 0.5 statestatestatestatestate 0.5 statestatestatestatestate 0.5 statestatestatestatestate 0.5 statestatestatestatestate 0.5 state<	£
т х 6 —	
$M \chi \qquad X \qquad G \qquad MFG Name NKNOWN \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$	
$\frac{B}{X} \qquad BR \qquad X \qquad 6 \qquad Chemical Name \qquad UNKNOWN$	
Additional Information: USED OIL " STENCICED ON TOP DRUM IS LYING ONLI SIDE BOTTOM IS (RUSHED IN SEVERAL BOLLET LIKE HOLES IN BOTTOM.	<u> </u>
LABORATORY COMPATIBILITY ANALYSES	
Physical StateColorClarityWaterReact.pHHex.Per.Oxid.CNSul.Biel- Stein	Flash Point
vvv	•C or•F
T X X 5 - 6 I	7180
M	
B	

Commen	ts: <u>~</u> ~	578	FOR	THE	PURPOSE	CVF.	LAB	ANALYSUS	ALL	SAMPLES	wene	Censiomer)	70

PCB Conc. <u>NA</u> ppm Flash Point <u>>82</u> °C

BE STAGE CAYERED

Data Reviewer MD3 / KJM

3

•

Compatibility Comp. Bulk No. <u>6-602</u>

Field Reviewer	KIMI	PAM
Field Reviewer	X.5707 ;	1-1-1-1

3	Ke													r				
Bake	r Enviro	nmenta	, tre											D	rum No	0. D	034	-
Pro	ject l	Loca	tion	-	CAI	nР	125	TU, J Z		- <u></u>	Pi	roject N	ło	1913	13			
Pro	iect l	Mani	ager	_	R	PW					Те	elephor	ne 🤇	919)	451	- 172	25	
Log	ger			KJ	$\overline{\mathcal{M}}$					Sa	ampler		PAM	KJr	n Ti	- T		
Wea	ther		P. (2100	עדי		60	's		Date	11/4	142	T	ime _	1303			
				Fib	er)		Steel		Poly	[] Stai	nless	Steel	Ē] Nicl	cel	
										Closed '					0.1			
						v												
										1/2				Д	MT []		
Dru	m Co	ondi	lion:		Goo	d 🗌			Fair							A (
		Phys	ical S	State		Color		Clarit	y L Thi	ayer ckness	, pH		6	P	ID	0,4	PI	m
	18	Įd	-		8	Use Std.	L L	dy	e Li	nches	Ra	d Mete	r	0, 1	3		m	r/hr
	Layers	Llquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Otl	her _	FID=	NA	Lĩ	2/02=	BC	<u>!</u>
	т	X							XI		و منه الم			·	·····			
ļ	м	X							X	[]	MF	'G Nan	ne <u>i</u>	NKN	טיייט			
	В	7							λ	1	Ch	emical	Name	UNI	κλοω	a)		
Add	itior	ıal Iı	lfor	mati	on:	EMP	ר ץ	R.P	LE RIN	<u>58 53</u>	36	57500	4150	010	5102			
_ <u></u>	BRI	L 147,	124	0	12 (acar	-	12	0 CT	1976	, 					, 	. <u></u> #=.	·
						T	ABC	RAT	CORY CO	OMPATI	BILITY	ANA	LYSES			<u></u>		
·	Phys	ical S	tate		Cold	_	Clari		Water	React.	pH	Hex.	Per.	Orid.	CN	Sul.	Biel-	Flasi
		T	-	e	Us		6	g	Sol. Sol.	A - Air	Std.	Sol. S or I	+ or •	+ or -	+ or •	+ or -	Stein + or -	•C
Layers	Llquld	Solid	Gel	Sludge	Std Colo		Cloudy	Opaque	S or I Density	W - Water	Unit							OrT
Т	Х					X			Sater		6	ī			-			7150
м							<u> </u>		 							 		
В			_,,									[[<u> </u>			
Con	ımer	ts:	ΝοΓ	ج	- UrL	THE	Puk	د م ^ر م ا	OF.	LAB AN	JALVS	ي الم	م ایک	rice	war	Cen	(Dene	- 10 T
										782		<u> </u>		<u> </u>			6470	

1

Data Reviewer	MOB /KJN

ļ

Compatibility Comp. Bulk No. <u>6-3c2</u>

Field Reviewer KJM/ FAM

Baker
Baker Environmental, et
Project Location <u>CAMP LEJOUNE</u> Project No. 19133
Project Manager <u>RPW</u> Telephone <u>(919)</u> 451-1725
Logger KJM JFT Sampler PAM KJM JFT
Weather <u>P. Cloupy 60's</u> Date <u>11/6/42</u> Time
☐ Fiber ☐ Steel ☐ Poly ☐ Stainless Steel ☐ Nickel Drum Type: ☐ Poly-Lined ☐ Ring Top ⊠ Closed Top ☐ Overpacked
Drum Size: 85 55 42 30 16 10 5 Other
Drum Contents: Amount Full \square 3/4 \square 1/2 \square 1/4 \square \square MT \square RCA \square \square
Drum Condition: Good \Box Fair \Box Poor \boxtimes
Physical State Color Clarity Layer pH PID 4 ppm
Line Linches Diagon /
$\begin{bmatrix} \mathbf{r}_{1} & \mathbf{r}_{2} \\ \mathbf{r}_{1} & \mathbf{r}_{2} \\ \mathbf{r}_{1} & \mathbf{r}_{2} \\ \mathbf{r}_{1} & \mathbf{r}_{2} \\ \mathbf{r}_{2} & \mathbf{r}_{2$
T
M MFG Name UNKNOWN
B Chemical Name UNKNOWN
RCRA MT
Additional Information: UNLEADED + TRIPLE RIDSE STAMPED ON SIDE.
*WHEN DRUM WAS FEFFERNESENCE - INITIATED - 3 BOILING SOUND
LABORATORY COMPATIBILITY ANALYSES
Physical StateColorClarityWaterReact.pHHex.Per.Oxid.CNSul.Biel-FlashSol.Sol.Sol.Sol.Sol.SteinPoint
Image: Solution of the state Image: Solution of the state Solution of the stat
T
M
В
Comments:
PCB Conc ppm Flash Point °C
Data Reviewer Compatibility Comp. Bulk No

Т

١

}

¥

ì

3

Field	Reviewer	-
-------	----------	---

Bake	KE Enviro	nmental													D	rum No	». _{До})36	
Pro	ject l	Joca	tion	· •	CA	MP		TEU ,	Jé			Pr	oject N	ło					
Pro	ject l	Mani	ager	~	R	PW						Te	lephor	1e ((919)	451	- 17 25		
Log	ger			<u>KJ 1</u>	и						Sa	mpler		<u>M ·</u>	KJM	<u> </u>	<u></u>	• <u> </u>	
Wea	ther		0 <u>, C</u>	Lou	DY		60	<u>'s</u>			Date _	11/61	42	T S	ime _	1315	-		
Dru	m Ty	/pe:		Fib Pol	er y-Liu	ned		Steel Ring	Top		Poly Closed I	op [] Stai] Ove	nless S rpack	Steel ed] Nicł	cel	
Dru	m Si	ze:	85		ł	55 🕅		42 []	30	1	6 🗌	10		5	Othe	r		
Dru	m Co	ontei	nts:	Am	oun	t Full	壑	3/	4		1/2	1/44	4	<1/4	XĨ	MT [j)		
Dru	m Co	ondi	tion:		Goo	d 🗌			Fair	[Poor			, ,	Rei) 2.A r	(7	
		Phys	ical S	State		Color	T	Clari	y	L	ayer ckness	pН			PI	(D	4,0	pr	m
	φ.	-P			σ	Use Std.		2			ches	Ra	d Mete	r	0.5			m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Color		Cloudy	Opaque			Otl	her _	FID=			ELOZ	: 7	<u> </u>
	т						+	1							•				
	м											MF	'G Nan	ne	NKNO	<u>w</u> n			
	B											Ch	emical	Name	UNI	<u><2012</u>	لہ		
						, (f					RCRA	MT							
Ado	lition	al I	nfor	mati	on:	TRI	PLE	<u> </u>	WSE		STAI	NPED	00	SID	2	No	074	m	
10	Fun	MA	Tien	J										<u> </u>	· · · · · · · · · · · · · · · · · · ·		<u> </u>		
							LAB	ORA	TORY	C C C	OMPATI	BILITY	(ANA	LYSES	3				
	Phys	ical S	itate		Col	or	Clar	ity	Wat		React	pH	Hex. Sol.	Per.	Orid.	CN	Sul.	Biel- Stein	Flas Poin
Layers	Liquid	Solid	Gel	Sludge	Us Sta Cola		Clear	Opaque	Sol S or Dens	I	A - Air W - Water	Std. Unit	SorI	+ or -	+ or -	+ or -	+ or -	+ or -	°C or T
т																			
м																			
В									1									<u> </u>	
Cor	nmei	ıts: _											<u> </u>						
PC	B Co	nc.				ppm		Flas	h Poir	ıt		•C							

Т

Data	Revi	ewer	

Compatibility Comp. Bulk No. _____

Field Reviewer

\$

3

ł

ł

aker
Drum No. Do37
roject Location <u>CAMP LEJUNE</u> Project No. <u>19133</u>
roject Manager RPW Telephone (919) 451-1725
ogger KJM Sampler PAM KJM
eather <u>P. CLOUDY 60'S</u> Date <u>11/6/52</u> Time <u>1317</u>
□ Fiber □ Steel □ Poly □ Stainless Steel □ Nickel rum Type: □ Poly-Lined □ Ring Top ⊠ Closed Top □ Overpacked
rum Size: 85 55 🕅 42 30 16 10 5 Other
rum Contents: Amount Full 🛛 3/4 🗌 1/2 🗌 1/4 🗍 <1/4 🗌 MT 🗍
rum Condition: Good 🗌 Fair 🗋 Poor 🕅
Physical State Color Clarity Layer pH <u>5</u> PID <u>0,5</u> ppm
Use Inches Rad Meter D; Z mr/hr
signification sig
T 1/ 12
M X 12 MFG Name
$\frac{B}{\chi}$ $\frac{\chi}{I2}$ Chemical Name Hydraulic Fluid
HYDRAVUL FLUID PETRO BASE. Iditional Information: TYPE II SHEEF LIFE ITEM WARNING THIS FLUID MAY
WTAINS TRICKESYL PHOSPHATE PRODUCES PARALYSIS IF TAKEN INFERMALLY
LABORATORY COMPATIBILITY ANALYSES
Physical State Color Clarity Water React. pH Hex. Per. Oxid. CN Sul. Biel- Flas
Use Sol. Sol. Use Sol. Sol. Use Sol. Sol. Sol. Use Sol. Sol.
X X 5 - 5 I 718
mments: NOTE FOR THE PURPLE OF LAB ANALYSES ALL SHALPES WERE CONSIDERED
$\mathcal{B} \operatorname{Conc.} \mathcal{N}^{\mathcal{A}} \operatorname{ppm} \operatorname{Flash} \operatorname{Point} \mathcal{P} \mathcal{E}^{\mathcal{P}} \mathcal{C}$
ta Reviewer <u>MDB / KJM</u> Compatibility Comp. Bulk No. 6 B04
eld Reviewer Kam /ran

à

;

5

3

Ţ

\$

pH = 12 > 180∘F

D063

BATCH NO. 6-B10

1

Corrosive Solid #2

pH = 13 > 180∘F Strong oxidizer and sulfide

D055 `

BATCH NO. 6-B11

Base Neutral Solid #1

pH = 3 > 180°F

)

1 1

D056, D058

Ba	ke																		
Bake	e Enviro	nmental	h, S	ĺ											Dr	um No). D	०३८	
Pro	ject I	LOCA	tion		CAN	1P	(TU	NE				_ Pr	oject N	o					
Pro	ject N	Mana	nger		RP	'w						_ Te	lephor	ie (914)	451	- 172	.5	
Log	ger			, KJ	M						Sam	pler	PA.	~	KJM	TFT			
										Date									
Dru	m Ty	pe:		Fib Pol	er y-Line	d [teel ing I	Гор 🕅	Poly Closed	d Toj	р [] Stain	nless S rpacke	iteel ed	C] Nick	el	
Dru	m Co	ontei	nts:	Am	ount I	ull		3/4		1/2 🗌	Ð	1/4 [2	PLUS	<1/4 [мт []		
Dru	m Co	ondi	ion:		Good				Fair		4	م Poor							
		Phys	ical S	itate		Color	C	larity	,	Layer		pН		6	_ PI	D	4	<u> </u>	m
						Use				nickness Inches		Rad	d Mete	r	012			m	r/hr
	Layers	Liquid	Solid	Gel		Std. Colors	Clear	Cloudy	Opaque			Oth	her _/	- 1D =	N' I.	LEL	0z=	B4	
	т	X				200			×	9					•				
	м	X				9	X			2		MF	'G Nan	ne	NKNO	ושא			
Í	В	×					X			2		Ch	emical	Name	HYC	DRAUL	16 7	LVID	
						Ыv	D0 A	V (1)	· F 1,	11D. 1	Port	0.D F	3440						
Ado	ditio	nal I	nfor	mati	on:					LIFE			•		SID	MRY	Con	UTAIN	
TR	ICR	τsy	L·P	μος	PAAT	ъ	PLO	PU	ces .	PARALY	4515	IF	TAKER	J_1~7	ETLNA	<u>«Y.</u>			
L						L	ABO	RAI	ORYO	COMPA	TIB	ILITY	ANA	LYSES	}		<u> </u>		
	Phys	sical S	State		Color	T	Clarit	y	Water	Reac	<u>د</u>	pH	Hex.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
2	ld			6	Use Std.		dy	ont	Sol. Sol. S or I	A - Ai W - Wa		Std. Unit	Sol. S or I	+ or •	+ or •	+ or -	+ or •	+ or -	*C
Layers	Llquid	Solid	Gel	Sludge	Color	Clear	Cloudy	Opaque	Densit										
Т	X					X			۴S	-		6	PS			-		-	7180
м									 	_	-					 			
В										<u> </u>			<u> </u>	<u> </u>					

Comments: Note FUR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDENTO TO G. Single CNYOLED

PCB Conc. <u>NA</u> ppm Flash Point <u>782</u> °C

Data Reviewer <u>MDB / KJM</u> Compatibility Comp. Bulk No. <u>6 - B05</u>

Field Reviewer KIM / PHM

¥

Bak	er Envin	onmenta	1,1-e								Drum No. D039
Pro	ject	Loca	tion	-	CA,	mP	LED	EN	é		Project No. <u>/9/33</u>
Pro	ject	Man	ager			RPW					Telephone (919) 451-1725
Log	ger			K	5~	1	<u> </u>			Si	mpler <u>PAM KJM TFT</u>
Wea	athe	r	<i>P.</i> ([[0]	,04		60	s'S		Date _	11/6/92 Time <u>1339</u>
Dru	ım T	уре:		Fib Pol	er y-Li	ned		teel ting	Тор	D Poly Closed	Stainless Steel Nickel
Dru	m S	ize:	85			55 🕅	4	2]	30	6 [10 [5 [Other
Dru	m C	onte	nts:	Am	oun	t Full		3/-	4 🗌	1/2	1/4 🎉 <1/4 🕅 MT 🗌
Dru	ım C	ondi	tion	:	Goo	d 🗌			Fair		Poor 🕅
		Phys	ical S	State		Color		Clarit	y	Layer	pH <u># 6</u> PID <u>0,7</u> ppm
						Use Std.			0	Thickness Inches	Rad Meter mr/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Other $F_{1D} = NA$ $LEL D_2 = BG$
	Т	×			X			X		1	·
)	М	×					X			1	MFG Name UNENOWN
,	В	X					X			/	Chemical Name
Ado	litio	nal I	nfor	mati	on:	NO	(<i>i</i>	46E	2	INFO.	

	Phys	ical S	State		Color	C	Clarity	1	Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Гауегв	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	S or I	+ or •	+ or -	+ or •	+ or -	+ or -	°C or °F
Т	x					\times			P_5		6	P _S						7180
м																		
В																		

Comments:	NOTE	FOR	THE	PURPose	07	LAB	ANALYSIS	ALL	Sampies	10=728	Considents	TO_	Be
PCB Conc.	A. A	, · ·	nnm	Flas	h Poi	nt :	• (م ح	~		4نہ ,ک	LE LAYOUN)	

nc. _ pp

Data Reviewer <u>MDB / KJM</u> Compatibility Comp. Bulk No. <u>6-805</u>

Field Reviewer KIM/ PAM

ŧ

1

ş

1

3	ke																		
Bak	er Envir	onmenta	L												D	rum N	o. D	040	
Pro	ject	Loca	tion	-	CA	MP	LEG	RUN	٤	. <u> </u>		P	roject l	No					
Pro	ject	Man	ager	-	_ <u> </u>	PW						Т	elepho	ne <u>(</u>	(919)	451	- /725	5	
Log	ger	-			KJr	1					Sa	mpler	F	DAM	KJ~	T	= 7		
We	ather	·	<i>P</i> ,	<u>2200</u>	UDY		60	's		_ D	ate _	11/61	192	T	ime _	/3	43		
Dru	ım T	ype:		Fib Pol	er ly-Li	ned		Steel Ring	Тор	P C	oly losed T	op [] Stat	inless S erpack	Steel ed] Nicl	kel	
Dru	ım Si	ze:	85		ţ	55 📈	. 4	2]	30 🗌] 1	6	10		5 🗌	Othe	er		
Dri	ım C	onte	nts:	An	oun	t Full		3/	4 🔲	1/	12 🗹	1/4		<1/4 [МТ [
Dru	ım C	ondi	tion	:	Goo	d 🗌			Fair			Poo	r 🕅						
		Phys	ical S	State		Color		Clarit		Lay		pH	[6	P	ID	1,5	p	pm
	81	q			. e	Use Std.		ły		Inch		Ra	d Mete	r	0.3			m	r/hr
	Layors	Llquld	Solid	Gel	Sludge	Color	Clear	Cloudy	Opaque			Ot	her 🤟	E10=		Lēu	02=	BG	<u> </u>
	Т	×						X		6		6-11-11			•				<u> </u>
l	м	×						X		10		MI	FG Nar	ne	עארע	ιοωλ)		
	В	×			Х			$ \times$		2		Сь	emical	Name	UX	והאם	لدى		
Add	litio	nal I	nfor	mati	on:		s w	<u>A 5</u>	CUT	OF	F 2	SHO	ARED	LIDS	IN'S,	DE_	DRUN	ч	
N	AY	601	0 <i>7</i> A	rN.	R,	412	Wa	ti	•					· · · · · · · · · · · · · · · · · · ·					
						·	LABC	RAT	FORY	COM	IPATII	BILIT	YANA	LYSES	3				<u> </u>
	Phys	sical S	itate		Cold	or	Clarit	y	Wat		React.	pH	Her.	Per.	Oxid.	CN	Sul.	Biel-	Flash

		ical 5	itate		Color	Clarity			Water Sol.	React.	pH	Her. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	+ or -	+ or -	+ or -	+ or -	
T	X		_			X			5		6	I	-			_	·	7180
м																		
в										·								

S. NGLE (A YERIN)

PCB Conc. NH ppm Flash Point 782 °C

Data Reviewer MDB /KJM

1

¥

ţ

J

\$

_____ Compatibility Comp. Bulk No. <u>6-βυ3</u>

Field Reviewer KJM/PHM

5 ElKel Mark
Baker Environmental
Project Location <u>CAMP LEJWNE</u> Project No. <u>19133</u>
Project Manager <u>RPw</u> Telephone <u>(919)</u> 451-1725
Logger KJM Sampler PAM KJM
Weather <u>P. CLOUDY 60'5</u> Date <u>11/6/92</u> Time <u>1347</u>
□ Fiber □ Steel □ Poly □ Stainless Steel □ Nickel Drum Type: □ Poly-Lined □ Ring Top ⊠ Closed Top □ Overpacked
Drum Size: 85 5 5 42 30 16 10 5 Other
Drum Contents: Amount Full 3/4 1/2 1/2 1/4 1/2 - <1/4 MT
Drum Condition: Good 🗌 Fair 🗌 Poor 🕅
Physical State Color Clarity Layer pH 6 PID 0,5 ppm
Use Inches Rad Meter ϑ , / mr/hr
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
$T \times X $
) $M \neq 5$ MFG Name <u>UNKNOW</u>
$\begin{array}{ c c c c c c } B \times & & & \\ \hline X & & & \\ \hline S$
OIL GLEBULES ON TOP
Additional Information: MISSING LARGE BUNG LUBRICATING OIL GEAR MULTIPORPOR
12 OCT 1976 AMD 2, 7 APRIL 1981
LABORATORY COMPATIBILITY ANALYSES

i

3

	Phys	ical S	State		Color	C	Clarity	Ŧ	Water Sol.	React.	pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	. Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or •	+ or -	+ or •	+ or -	+ or -	°C or F
Т	X					X			PS	-	6	15	-			—	_	7180
м																		
В																		

Comments: <u>Nor</u>	E FOR THE PU	RPUSË OF LH	B ANALYSES ALL SAMPLES WER	2 Considentia TO BE
PCB Conc.	4 ppm	Flash Point	<u>~82</u> °C	Singe Chycle
Data Reviewer	MOB / KJM		Compatibility Comp. Bulk No	6-305
Field Reviewer	KJNI / PAM			

3	Ke																		
Bak	er Envin	onmenta	ln												D	rum N	•. Do	2,2	
Pro	ject	Loca	tion	-	CAI	ИР	LZJI	w.vt	s 			Pr	oject N	lo					
Pro	ject	Man	ager	_	<u> </u>	PW	,					_ Te	lephor	ie _	(919) 49	51- 17	725	<u> </u>
Log	ger				Ka	TM				<u> </u>	Sa	mpler	/	PAM	KJ	M			
Wea	ather	•	<i>P</i> .	Сго	<u>u Dy</u>	,	60	<u>′s</u>		Date	_	11/6	192	T	ime _	135	(····	
Dru	ım T	ype:		Fib Pol	er y-Li	ned] S] R	teel ing'	Гор	Poly Close	ed T	op [] Stai] Ove	nless s rpack	Steel ed	C] Nicl	cel	
Dru	ım Si	ze:	85		ł	55 🕅	4	2		30 🗌	16	5 🗌	10		5	Othe	r		
Dru	ım C	onte	nts:	Am	ioun	t Full	X	3/-	4 🗋	1/2 [כ	1/4 []	<1/4		мт [כ		
Dru	m C	ondi	tion:	:	Goo	a 🗌			Fair	·□		Poor	Ø						
		Phys	sical S	State		Color		Clarit	y	Layer		pH	·	5	PI	ID	2	PI	pm
	8	_				Use Std.		<u>ہ</u>	10	Thickness Inches		Rac	l Mete	r	2			m	r/hr
	Layers	Llquld	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque			Oth	ier _A	=10 =	NA	LEL	02=	BG.	
	Т	¥					Y.			12	1				<u> </u>				
l Y	M ·	X					¥			12]	MF	G Nan	1e	UNEN	لديره			
$\left(\right)$	В	X					¥			12]	Che	emical	Name		NKNO	ww		
Ada	litio	nal I	nfor	mati 	on:		(A	BEL		IFORMA	Tro.	<i>ک</i>							
						L	ABO	RAI	OR	Y СОМРА	TI	BILITY	ANAI	LYSES	5				
	Phys	sical S	State		Col	or	Clarit	У	Wa	ter Res	ct.	pН	Hex.	Per.	Oxid.	CN	Sul.	Biel-	Flas

T

7

)

						L	ABO	RAI	ORY C	OMPATIE	BILITY	ANA	LYSES	5				
	Phys	sical S	State		Color	(Clarit	ÿ	Water Sol.	React.	pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	+ or -	+ or -	+ or -	+ or -	°C or F
Т	X					×			S		5	Ī			—	_		700
м		·																
в																		

Comments: North Fun THE PURPISE OF LAC	3 ANALYSES ALL SAMPLE'S WORE CONSIDERED FD B.
PCB Conc. <u>NA</u> ppm Flash Point _	Simple inyoled
Data Reviewer MOB IKTM	Compatibility Comp. Bulk No. <u>6 - 304</u>
Field Reviewer KSM I FAM	

Be	ke	1																
Bakı	er Enviro	nmenta	Live											D	rum No	o. Do	043	
Pro	ject]	Loca	tion	_	CAL	nP a	! E JU	בתנ			Pr	oject l	ło	191.	3.3			
Pro	jecti	Man	ager	-	R	PW					Te	lepho	1e (910	451-	1725		
Log	ger				КJ	M			- <u></u>	Sa	mpler	Ē	AM	KIC	1			
Wea	ather	•	P. C.	1003	Y	60	٢			Date _	11/61	192	T	me _	135	ષ્ટ		
••••••••••••••••••••••••••••••••••••••				Fib	er	[] s	teel		Poly] Stai	nless S	Steel] Nicl	cel	
Dru	ım T	ype:		Pol	y-Lin	ed [] R	ing	Гор 🕅	Poly Closed T	op [] Ove	rpack	ed		-		
Dru	ım Si	ze:	85		5	5 🖾	4	2	30		6	10		5	Othe	r		
Dru	m C	onte	nts:	Am	ount	Full [3/4	¥ 🔲	1/2	1/4	Ĺ	<1/4 [мт []		
Dru	ım C	ondi	tion:		Good	1			Fair		Poor	· 🛛						
1	Physical State Color Clarity Layer pH <u>5</u> PID <u>, 4</u> ppm Thickness																	
	5 0	rp			e	Use Std.		الع	T	nches	Rad Meter mr/hr							
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Other $FID = NA$ $LEL OL = BG$							
	Т	×		×				\mathbf{x}		2								
)	м	X					Х			1	MF	'G Nan	1e	و ند برند	w.v			
	в	X					٢			/	Сь	emical	Name	Luz	SRICA	7124	.010	
Add	litio	nal I	nfor	mati	on:	LUBR	ICA	TIN	5 016	INTER	NAL	Com	30571	، م،	ENGA	NE		
G.	CAD	£	101	<u>v 3</u>	0	Miss	<u>1 N G</u>		BOTH	BUNG	5							
	<u> </u>		<u></u>			Τ.	ARO	R A 7	YORY C	OMPATI	211.175		VEFC					
	Phys	sical S	state		Colo		Clarit		Water	React.	pH	Hex.	Per.	0xid.	CN	Sul.	Biel-	Flash
									Sol. Sol.	A - Air	Std.	Sol. S or I	+ or -	+ or -	+ or •	+ or -	Stein + or •	Point *C
Гауеге	Liquid	Solid	Gel	Sludge	Std. Color		Cloudy	Opaque	S or I Density	W-Water	Unit							or F
Т	X					×			P _S		5	P S						
М																		
В																		
Сот	nme	nts:	NOT	s Fr	5.2 T	не Р.	RPO	م تے د	FLAA	ANALYS	CS 0.	() (A	~~~~	 حر و رز	-		- D (1)	TU 8
										782			Mpces	<u>, 1, 51</u>			(1) y = 1	
л Ų.	0.00		~~~		P	pm	r	iast	I ULIL	101								

Data Reviewer	MDB KJM

MDB / KJM Compatibility Comp. Bulk No. 6-1305

Field Reviewer KIM / PAM

ĵ

)

Baker														
BakerEnvironmental.														
Project Location CAMP (EJANE Project No. 19133	_													
Project Manager <u><i>RPuJ</i></u> Telephone <u>(919)</u> 4-51-1725	_													
Logger KIM Sampler PAM_KIM	_													
Weather <u>P. CLOUDY 60's</u> Date <u>11/6/92</u> Time <u>1406</u>	_													
Image: Steel Image: Steel <td< td=""><td>┥</td></td<>	┥													
Drum Size: 85 5 8 42 30 16 10 5 0ther														
Drum Contents: Amount Full 3/4 1/2 1/2 1/4 1/2 <1/4 MT														
Drum Condition: Good 🗌 Fair 🗌 Poor 🕅														
Physical State Color Clarity Layer pH 5 PID 0,4 ppm Use														
Use Inches Rad Meter 0,/ mr/hr														
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	_													
т '% X 2	-													
M X 2 MFG Name $UNKNOWN$	_													
$\frac{B}{X} \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$	_													
Additional Information: LUBRICATING OIL INTERNAL COMBUSTION ENGINE	-													
MISSING BOTH BUNGS														
LABORATORY COMPATIBILITY ANALYSES	i													
	lash oint													
Image: State of the state o														
T X GRANGE X X S - 5 I	160													
M														
B														
Comments: NOTE FER THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED	<u>T (</u>													
PCB Conc. \mathcal{M} ppm Flash Point $\mathcal{P}\mathcal{B}\mathcal{I}$ °C														
Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-BCI														
Field Reviewer Kam / PAM														

)

\$

Be	Ke Er Enviro	r																
U/AIL	er Eaving	ninenta	, 146 , 55		<u> </u>											•. Do	<u>45</u>	
Pro	ject I	Loca	tion	<u>(</u>	(AM	P L	t The	<u>عر</u>		······		Project l	No	1913	33	¹	·	
Pro	ject I	Man	ager	-	RI	PW						Telepho	ne (919)	451	- 172	5	
Log	ger			•	/	KUM					Sampl	er	DAM	KJM				
Wei	ather		P.	(10	104	60	's			Date	/	6/92	T	ime _				
Dru	ım Ty	/pe:		Fib Pol	er y-Lin	ied [] S] R	teel ing '	Гор 5] Poly Closed	d Top	Stat	inless f erpack	Steel ed	C] Nicl	cel	
Dru	ım Si	ze:	85		5	5 🗹	4	2	3	10	16 🗌	10		5	Othe	r		
Dru	ım Co	onte	nts:	Am	ount	Full [3/4	4 🔲	1/2 🗌	1/	4 🔲	<1/4	x (мт [J)		
Dru	ım Co	ondi	tion:		Good	1 🗌			Fair		. P	oor 灯			Ĩ	2CRA M	r	
		Phys	ical S	itate		Color		Clarity		Layer	1	ын		P	ID		pı	om
Physical State Color Clarity Layer single Color Clarity Layer single Std. Inches single Std. Std. single Std. Std. single Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. </td																		
	Layer	Llquic	Solid	Gel	Sludg	Colors	Clear	Cloud	Opaq			Other _	FID =	·	L	EL 02 =	<u>.</u>	
	Т										•		·····				<u> </u>	
	M B											MFG Nai					·	
	Б]										Chemica	l Name	we	BRICA	TING	610	<u></u>
						,				RCRA								
						LUBR	1C A	TIN	60	IL INT	ETLNA	COM!	<u>BUST10</u>	N E	UGIN	र्ष		
·	<u> A</u>	PRI	L [98]	5.													
						L	4BO	RAJ	ORY	COMPA	TIBILI	TY ANA	LYSES	5				
	Phys	vical'S	State		Colo		Clarit	-	Wate Sol.			Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flas Poin
Layers	Liquid	Solid	Gel	Sludge	Use Std. Color		Cloudy	Opaque	Sol. Sor Densi	I W-Wa			+ or -	+ or •	+ or -	+ or •	+ or -	°C or 'F
Т																		
м													<u> </u>	ļ				
В																		
Сол	nmer	nts: _																
PC	B Co	n c. _			F	opm	ł	Flash	1 Poin	t	<u> . </u>	•C						
Dat	ta Re	view	/er							C	ompati	bility Co	mp. Bı	ilk No.				

Field Reviewer

3

Be	ke	ſ																		
Bak	er Enviro	hmental	.115													D	rum No	o. Do	046	
Pro	ject I	юса	tion	_	CAL	nP	L	EJE	ع له				Pr	oject N	lo					
Pro	ject I	Aana	ager	_		EP.	w					,	Te	lephor	ie _	(919)	451	- 1725	* }	
Log	ger	. <u> </u>		/	Клл	1						S	ampler	<i>P</i> .	Ari	кJM				
Wea	ther		<u>?</u> .	6.600	-0 y		4	, O '	\$			Date	11/61	42	Ti	ime _			<u> </u>	
Dru	m Ty	pe:		Fib Pol	er y-Liı	ned	[] S] R	teel ing '	Гор		Poly Closed '	Гор [] Stai] Ove	nless S rpack	Steel ed	C] Nick	cel	
																			- <u></u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Dru	m Co	onter	nts:	Am	ount	t Ful	u [3/4	ŧ 🔲		1/2 🔲	1/4 [<1/4 }	শ্ৰ (мт [)		
Dru	m Co	ondi	ion:		Goo	d [Fair	• [Poor	· Ø			\smile	RUL	17 17	
		Phys	ical S	itate		Col		C	larity	Ÿ		ayer ckness	pH	<u></u>		PI	D <u>/</u> ,	8	pr	m
	Thicknesssi $\overrightarrow{P_1}$ $\overrightarrow{P_2}$ $\overrightarrow{O_2}$ Use Std.InchesRad Meter $0,1$ mr/hr $\overrightarrow{P_1}$ $\overrightarrow{P_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{P_1}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{P_1}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{P_1}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$ $\overrightarrow{O_2}$															1				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$																				
T																				
	M B																			
	5										L		Сь	emical	Name	GR.	ADE	80 0	UBE	016
		- 1 7	6						- 0			RAI		_						
	111101	181 11	nior	mau	on:		<u>7 /C</u> 1	ADC	8	<u>o</u>		<u>BE_0</u>	IC EN	<u>) (</u>	<u> </u>					
	Phys	ical S	tate		Col	or		ABO		OR!		OMPAT		(ANA) Her.	LYSES Per.) Orid.	CN	Sul.	Biel-	Flash
<u> </u>					Ŭ8	e			r	So So	əl. əl.	A - Air	Std.	Sol. S or I		+ or -			Stein	Point °C
Layers	Liquid	Solid	Gel	Sludge	Std Colo		Clear	Cloudy	Opaque	So Den		W-Wate	r Unit							or F
Т																				
M																				
B					I			L	I	L		<u> </u>		<u> </u>	l	<u> </u>	l	<u> </u>	L	I
Cor	nmei	nts: _												<u> </u>					. <u></u>	
) PC	B Co	nc		- <u></u> -	·	ppm	L	ł	^r lash	n Poi	nt		•C							
Dat	a Re	view	er	. <u> </u>								Co	mpatibi	lity Co	mp. Bı	ulk No.				

Field Reviewer

1

1

ł

)

35	ke																	
Bake	Environ	nmental	, he											Dr	um No	". Do	547	
Pro	iect I	юса	tion	 '	<u>CA</u>	1 1	2 Tu	INE			Pr	oject N	o					
Pro	iect N	Mana	iger		RP	ω				<u></u>	Te	lephon	ie 🤇	919)	451-1	725		
Log	ger				K	JM				S	ampler	P	AM	KJM	<u> </u>			
Wea	ther		P. 0	100	DY	60'	<u>'s</u>			Date	(6	142	Ti	me	141	L		
Dru	Image: Steel Image: Steel <td< td=""></td<>																	
Dru	m Si	ze:	85		55	Ø	42	2	3(D 🗆	16 🗌	10 [5	Other	:		
Dru	m Co	onter	n ts:	' Am	ountl	Full [র্য	3/4	۱	1/2	1/4 [] ·	<1/4 [мт []		
Dru	Drum Contents: Amount Full 3/4 1/2 1/4 MT Drum Condition: Good Fair Poor MT Physical State Color Clarity Layer pH 5 PID 0, 4 ppm																	
	Physical State Color Clarity Layer pH <u>5</u> PID <u>0,4</u> ppm Thickness															m		
	en	ъ				Use Std.		Iy I		Inches	Rac	d Meter	r	0.1			m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Oth	ner <u>/</u>	- ID =	NA	LE	L 02 =	BĢ	
	Т	X					X			12				•				
)	м	\rightarrow					γ		 	12	MF	'G Nam	1e()	NKN	owd	·····		
İ	В	X						Х		12	Che	emical	Name	Dits	r L	Fuel		
Ado	litior	nal I	nfor	mati	on: [DIES	ミレ	Ŧī	UEL	STEW	LILED	00	SID	S.	Mis	5110	<u>فر</u>	
<u></u>	لاترك	5	Bu	<u>~</u> 4	<u>, </u>	AWF	<u>5 r</u>	<u>0511</u>	ALED	AT SI	MALL	BUNG	á					
						L	ABO	RAT	ORY	COMPAT	IBILITY	ANAI	LYSES					
	Phys	sical S	itate		Color	T	Clarit	y	Water Sol.	React.	pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Color:	clear	Cloudy	Opaque	Sol. S or I Densit		er Unit	SorI	+ or -	+ or -	+ or -	+ or -	+ or -	°C Gr*F
T	X					×			ک		5	I						7180

.

ŧ

,

ł

¥

2

į

М

в

Comments: NOTE FOR THE PURPOSE OF LAB	ANALYSES ALL SAMPLES WERE CONSIDERED TO
PCB Conc. <u>~~</u> ppm Flash Point _	
Data Reviewer MDB / K.TM	Compatibility Comp. Bulk No. <u>6- Ber</u>
Field Reviewer KJM / PAM	

Be	ke														•			
Bak	er Enviro	nmental	, en								, <u> </u>			D	rum No	0. De	248	
Pro	ject I	боса	tion	_	Car	MP (Ξú	<u>ځ ل</u> ړ			Pr	oject d	lo					
Pro	ject I	Man	ager	_	R	ρω					Te	lephor	ne <u>(</u>	919)	45	1 - 17	25	
										Sa								
										Date _								
Dru	ım Ty	pe:		Fib Pol	er y-Li	ned		teel ling '	Top 🛛	Poly Closed T	op [] Stai] Ove	nless S rpack	Steel ed	Ľ] Nicł	kel	
Dru	m Si	ze:	85		ł	55 🕅	4	2] 30	16	5 🗌	10		5	Othe	r	·····	
Dru	m Co	ontei	n ts:	Am	oun	t Full		3/-	4 🔲	1/2	1/4 []	<1/4	z (MT [)		
Dru	m Co	ondi	tion:		Goo	d 🗌			Fair		Poor	- Ø	·	R	RA MT			
		Phys	ical S	state		Color	- (Clarit		ayer ckness	pН						pi	pm
				·		Use Std.		N	T,	nches	Ra	d Mete	r				m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Otl	her _	F10=	<u></u>	LE	202=		
	т													·				
	м										MF	'G Nan	ne	UNZN	نہ <i>یہ</i> ہ			
1	В										Ch	emical	Name	<u></u>	JKNO.	لەيد	- <u></u>	
Add	litior	ายไป	nfor	mati	on:	NO	·C	ABE	L INF	0,	-	RCRA	MT	-				
					•					<u> </u>								
						L	ABO	RAI	rory C	OMPATII	BILITY	ANA	LYSES	3				
	Phys	ical S	itate		Col	or	Clarit	у	Water Sol.	React.	pН	Her. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Poin
Layers	Liquid	Solid	Gel	Sludge	Us Sta Colo	ւլյ	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or •	+ or -	+ or -	+ or -	+ or -	°C or T

Т

i.

ş

۱

Ì

Field Reviewer

M M																		
B																		
Cor	Comments:																	
)PC	B Co	nc.		 .	pp	m	F	lash	Point		•C							
Dat	ta Re	viev	ver							Com	patibil	ity Co	mp. Bu	lk No.		<u> </u>		

FEIKE														
Baker Environmental ve tert														
Project Location CAMP LEJEUNE Project No. 19133														
Project Manager <u>RPW</u> Telephone <u>(919)</u> 451-1725														
Logger KJM Sampler PAM KJM														
Weather P. CLOUDY 60's Date 11/6/92 Time														
□ Fiber □ Steel □ Poly □ Steinless Steel □ Nickel														
Image: Steel Image: Steel <td< td=""></td<>														
Drum Size: 85 5 5 42 30 16 10 5 0ther														
Drum Contents: Amount Full $3/4$ $1/2$ $1/4$ $< 1/4$ MT \land \land \land \land \land \land \land \land														
Drum Condition: Good 🗌 Fair 🗌 Poor 🖾														
Physical State Color Clarity Layer pH PID <u>750, 0</u> ppm														
Use Inches Rad Meter , 2 mr/hr														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														
M MFG Name UNKNOWN														
B Chemical Name UNKNOWN														
UNIQUE BUNG CONFIGURATION RCRA MT														
Additional Information: UNKNOWN ATTENTION THIS CONTAINED NAZARDOUS WHEN														
EMPTY. EMPTY CONTRINCAS MAY CONTAIN EXPLOSIVE VARORS OR DANGEMOUS														
LABORATORY COMPATIBILITY ANALYSES														
Physical State Color Clarity Water React. pH Hex. Per. Oxid. CN Sul. Biel- Flash Sol. Sol. Sol. Sol. Stein Point														
Tise Sol Ashir Std Sort tor tor tor tor tor														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														
Т														
м														
B														
Comments:														
PCB Conc ppm Flash Point °C														
Data Reviewer Compatibility Comp. Bulk No														
Field Reviewer														

The States and the States of

)

Be	Ke																	
Bak	er Enviro	nmenta	l,ne						-					Di	um No	». D	050	
Pro	ject]	Loca	tion		CAD	np L	EJE	ع بہ پ			Pr	oject N	ło					
Pro	ject	Man	ager	-	R	ew_					Te	lephor	ne _	(919	1) 4	51-1	1725	
Log	ger	<u>.</u>		K	<u>Ś</u> m	I				Sa	mpler	PA	m k	(JM				
We	ather	•	<u>P. c</u>		07	60	ʻs			Date _	<i>"/ τ / ·</i>	82	Ti	ime _	10	.25	·	
Dru	ım T	ype:		Fib Pol	er y-Lir	led [X S R	teel ing'	Top	Poly Closed 1	[[] fop] Stai] Ove	nless S rpack	Steel ed] Nich	cel	
Dru	ım Si	ze:	85		б	5	4	2	30		6	10 [5	Othe	r _1 (DT CA	25
Dri	Drum Contents: Amount Full 🕅 3/4 🛛 1/2 🗌 1/4 🗍 <1/4 🗍 MT 🗍 Drum Condition: Good 🗍 Fair 🗌 Poor 🗖																	
Dru	Physical State Color Clarity Layer pH <u>5</u> PID 150 ppm																	
	Physical State Color Clarity Layer pH 5 PID /S0 ppm Thickness															m		
Thickness Use I Inches															r/hr			
	Layors	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloud	Opaque		Otl	ier _/	FID =		Lē	L CZ =	BG	
		X		-						2	.			<u>. </u>				
Į	м	X				WHITE			X	2	MF	'G Nan	1e					
) I	В	X							×	2							m Pour	·9
Ad	ditio	nal I	nfor	mati	on:	~50	σ			<u>s — Pa</u>		is C	омро	UND	FLAM	MABL	e La	VID
						<u></u>				. D								
			<u></u>														·····	
r	Dhr	sical S			Cold		ABO Clarit		ORY CO	OMPATI React.			LYSES Per.		CN	<u><u> </u></u>	Pial	Flash
				r	Use		1	-	Sol.	A - Air	pH Std.	Hex. Sol. Sor I	rer. + or •	Oxid. + or -	CN + or -	Sul. + or •	Biel- Stein + or -	Point °C
Lavers	Liquid	Solid	Gel	Sludge	Std Colo	· 5	Cloudy	Opaque	Sor I Density	W - Water		5011			1 01 -	+ 01 -		or'F
т	×				WIT	ré		×	ح		5	°s			-			7 180
М																		
в					<u> </u>				<u> </u>					<u> </u>				

Comments:	N0:2	FUR	THE	PURPOSE	<u>ن 7</u>	LAG	ANALYSZS	ALC	SAMPLES	wore	Cons. Deno
											S. NELE LAYER

PCB Conc. <u>NH</u> ppm Flash Point <u>782</u> °C

1

j

)

Data Reviewer MOB / KUM Compatibility Comp. Bulk No. 6- 806

Field Reviewer	KIM	1PANI	

Baker Environmental, w. Dosi														
Project Location Comp LETEUNE Project No. 11133														
Project Manager <u><i>RPW</i></u> Telephone <u>(919)</u> 451-1725														
Project Manager RPW Telephone $(9/9)$ $451 - 1725$ Logger KJM Sampler PAm KJM TFT Weather $P.$ $CLOUDY$ $60'S$ Date $n/6/92$ Time 1636 Drum Type: Fiber Steel Poly Stainless Steel Nickel														
Weather <u>P. CLOUDY 60'5</u> Date <u>11/6/92</u> Time <u>1636</u>														
Fiber Steel Drum Type: Poly-Lined Ring Top Closed Top Overpacked														
Drum Size: 85 55 5 42 30 16 10 5 Other														
Drum Contents: Amount Full 3/4 1/2 1/4 < 1/4 MT														
Drum Condition: Good 🗌 Fair 🗍 Poor 🕅														
Physical State Color Clarity Layer pH 6 PID 3, / ppm Use Inches Rad Meter 0, 3														
Physical State Color Clarity Layer pH 6 PID 3, / ppm Use Inches Rad Meter 0, 3														
Drum Condition: Good Fair Poor X Physical State Color Clarity Layer <u>Physical State Color Clarity Layer</u> <u>B</u> <u>Std.</u> <u>b</u> <u>B</u> Inches Rad Meter 0,3 mr/hr														
TX UT BR XZ														
M X LT BE X 2 MFG Name UNKNOWN														
BX LT BE X 2 Chemical Name UNKNOWN														
Additional Information: <u>South Lot</u> 201														
LABORATORY COMPATIBILITY ANALYSES														

	Phys	Physical State			Color		Clarity	ř	Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or •	+ or -	+ or -	+ or -	+ or •	•C or*F
Т	×				Blown			×	I	-	6	5	-	_	-			7/80
м	·																	
В																		

<u>o</u> Comments: <u>مر</u>	TE FOR	TH2	PLRFUSE	OF LAB	ANALYSES	ALL	SAMPLES	ume	Cons, Denco	<u> </u>
) PCB Conc	1A	ppm	Flash	Point _	<u> 782</u> °C			5 5 .	ct invento	
Data Reviewer	MDB	IKJM	,	,	_ Compatibi	lity Co	mp. Bulk N	o. <u>6</u>	- Buj	

•

1

)

ł

Field Reviewer KJM / PAM

Project Location $CAMP it Struct$ Project No. 19.33 Project Manager $R > W$ Telephone 91.93 Logger $K > M$ Sampler $PAM K > M$ Weather $A \leq i < i > 23.5$ Date $PAM K > M$ Weather $A \leq i < i < 20.5$ Date $PAM K > M$ Weather $A \leq i < i < 0.5$ Date $PAM K > M$ Drum Type: Poly-Lined Ring Top Stainless Steel Nickel Drum Type: Poly-Lined Ring Top Closed Top Overpacked Drum Size: 85 55 42 30 16 10 5 Other	Bake	r Enviro	nmental	19 - 5											Dr	um No	. D	052	
Logger KJM Sampler PAm KJm Weather I $CComp \times Constructory$ $Date$ $II/C/9L$ Time $I6SS$ Drum Type: Poly-Lined Ring Top Closed Top Overpacked Nickel Drum Type: Poly-Lined Ring Top Closed Top Overpacked Drum Size: 85 55 42 30 16 10 5 0 ther Drum Contents: Amount Full $3/4$ $1/2$ $1/4$ $<1/4$ MT Drum Condition: Good Fair Poor M $\frac{Vee}{Sid.}$ <td< td=""><td>Proj</td><td>ject I</td><td>юса</td><td>tion</td><td><u>_</u></td><td>AN</td><td>np Li</td><td>: Jeu</td><td>NZ</td><td></td><td></td><td> Pr</td><td>oject N</td><td>o</td><td>1913</td><td>3</td><td></td><td></td><td> </td></td<>	Proj	ject I	юса	tion	<u>_</u>	AN	np Li	: Jeu	NZ			Pr	oject N	o	1913	3			
Weather $f. ccovery corist Date n/6/52 Time 1/655 Drum Type: Fiber Big Top Steel Poly Big Top Stainless Steel Nickel Drum Type: Poly-Lined Ring Top Closed Top Overpacked Nickel Drum Size: 85 55 X 42 30 16 10 5 Other $	Proj	ject I	Mana	ager		R	PW					Te	lephor	ie _	(919) 45	- / - / 7	25	
Image: State indicator in the imag	Log	ger				KT	~				S	Sampler	P,	AM	KJM	<u> </u>	····-		
Drum Type: Poly-Lined Ring Top Closed Top Overpacked Drum Size: 85 55 X 2 30 16 10 5 Other	Wea	ther		<i>P.</i> 0	2600	24	60	o 's	<u></u>	<u> </u>	Date	11/61	192	_ Ti	me _	165	5		
Drum Contents: Amount Full $3/4$ $1/2$ $1/4$ MT Drum Condition: Good Fair Poor \boxed{X} $\boxed{Physical State}$ Color Clarity Layer PH e PID $2.3\%^+$ $\boxed{\frac{Y}{2}}$ <t< td=""><td>Dru</td><td>m Ty</td><td>/pe:</td><td></td><td>Fib Pol</td><td>er y-Liı</td><td>ned [</td><td>] S] R</td><td>teel ing 7</td><td>[op]</td><td>Poly Closed</td><td>Top</td><td>] Stai] Ove</td><td>nless S rpacke</td><td>teel ed</td><td></td><td>] Nick</td><td>cel</td><td></td></t<>	Dru	m Ty	/pe:		Fib Pol	er y-Liı	ned [] S] R	teel ing 7	[op]	Poly Closed	Top] Stai] Ove	nless S rpacke	teel ed] Nick	cel	
Drum Condition: Good Fair Poor \square Physical State Color Clarity Layer pH 6 PID 238+ Rad Meter O.L Std. $\stackrel{\circ}{P}$	Dru	m Si	ze:	85		ŧ	55 🛛	4	2	30		16 🗌	10 [5 🗌	Other	• <u> </u>		
Physical State Color Clarity Layer T	Dru	m Co	ontei	nts:	Am	ount	Full [3/4		1/2 🗌	1/4 [<1/4 [ব	MT 🗌]		
Image: State of the state	Dru	m Co	ondi	tion:		Goo	d 🗌			Fair		Poor	X						
Image: State of the state			Phys	ical S	itate		Color	(Clarity			pH	. <u></u>	6	_ PI	D _2	38+	pr	m
T X Y Z M Y Z B Y Z Additional Information: LOT Dot South Volatility RAPIDLY		80	Ę			. 8			ły			Rad	d Mete	r <u> </u>	0,2			m	r/hr
M Y Z MFG Name UNKNOWN B Y Z Chemical Name UNKNOWN Additional Information: LOT ZOI SOUTH VOLATILIES RAPIDLY		Layor	Liqui	Solid	Gel	Sludg	Colors	Clear	Cloue	Орад		Oth	ner <u>P</u>	H = DI	A	LEL	02= (60%	<u>18 %</u> 0
B Y Z Chemical Name UNKNOWN Additional Information: LOT DOI SOUTH VOLATILIES RAPIDLY LABORATORY COMPATIBILITY ANALYSES		т	\star					¥			2				<u> </u>		<u> </u>		
Additional Information: Lot Joi South Volatility Rapidly LABORATORY COMPATIBILITY ANALYSES		м	7					×			2	MF	'G Nan	ne <u>د</u>	<u>n kn</u>	10 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
LABORATORY COMPATIBILITY ANALYSES	1	в	4					\star			2	Ch	emical	Name	Un	סתאנ	لدس		
	Ada	litio	nal I	nfor	mati	on:		<u>97</u>	20	<u>1 5</u> 0	שדא	VOLA	<u></u>	<u> </u>	PIDLY				
I Physical State I Color I Clarity I Water I Read I will Have I Der I Avid I CN I Quil I Ris	P	<u>.</u>																1 50 5	· · · ·
Sol. Sol. Ste		Phy	sical S	state	1			Clarit	1					Per.	Oxid.	CN	Sul.	Biel- Stein + or -	Flash Point *C

Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	Sorl	+ or •	+ or -	+ or -	+ or -	+ or -	°C or*F
Т	X					X			Ī	-	6	5	-	_	-	-		7160
М																		
В																		
Cor	nmei	nts:	~07	تر م	THE THE	ě f	00124	ocst	UF	LAB AN	ALYS	ES A	U 5A	m P.E.	5 603	me a	(o~s,C	oent D

Comments:	NUTE	FUR ?	TNE	PULPESE	or	LAB	ANA	64525	ALL	SAMPLES	$\omega - \omega$	22 Con	sidenty
										Γ	υ Βε	5. 29 60	CAYMER
PCB Conc.	アント	1	ppm	Flash	Point	_ >	82	°C					

Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6- 806

Field Reviewer Kam / PAM

ļ

)

ì

¢

			line								Drum No
Proj	ect]	Loca	tion	-	CAI	NIP	12	Ττι	ini .		Project No / 9/3 3
Proj	ect l	Man	ager	-		RPM	, 				Telephone (919) 451-1725
٥g	ger		. <u>.</u>		K.	TM		<u> </u>		S	ampler PAM KOM
Wea	ther		P. (100	· Dy	60) ' S			Date	11/6/92 Time 1705
Dru	m Ty	ype:		Fib Pol		ned [iteel ling	Тор	Poly Closed	Stainless Steel Nickel Top Overpacked
Oru	m Si	ze:	85			55 🔀	4	2]	30	16 🗍 10 🗍 5 🗍 Other
Dru	m Co	ontei	nts:	An	noun	tFull [3/	4 🗌	1/2 🗌	1/4 🗌 <1/4 🖾 MT 🗍
Dru	m Co	ondi	tion:	:	Goo	od 🗌			Fair	· 🗌	Poor 🕅
Γ		Phys	ical S	State		Color	(Clarit	у	Layer	pH _ 5 PID ppm
ŀ	•				ge .	Use Std.		2	e	Thickness Inches	Rad Meter 0.3 mr/hr
	Layers	Liquid	Solid	Gel	Sludg	Colors	Clear	Cloudy	Opaque		Other $F_{10} = NA$ $LEL _{02} = BC_{e}$
Ī	т	У				GR BL			¥	2	· · · · · · · · · · · · · · · · · · ·
	м	×				GR BL			X	2	MFG Name
L	в	X				GRBL			×	2	Chemical Name
Add	itio	nal I	nfor	mati	on:		т	í	201	South	OIL ODOK

1

	Phys	ical S	State		Color		Clarit	ÿ	Water Sol.	React	pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	+ or -	+ or -	+ or •	+ or -	°C (or °F
Т	×				BROWN			×	I	-	5	5		-		-	-	71807
м																		
В														[1			

Comments: <u>Nor</u>	FOR THE P.	URPUSE OF	LAO ANA	craes All	SAMPLES	Worze Cons.	soned TT
)PCB Conc	<u>a</u> ppm	Flash Point	782	_ •C	ß	ë S.NGLE LA	y =72= 1)
Data Reviewer	MDB / KJM		Comp	atibility Comp	p. Bulk No	6-B07	
Field Reviewer	KIM /PAM						

	et Enviro	nmenta	L1-							·····				D	rum No	•. Do	54	
Pro	ject)	Loca	tion	-	CAr	nР	LE.	Τεν,	υ <i>ί</i>		Pi	oject N	lo	1913	3			
Pro	ject	Man	ager	-	RI	PW					Te	lephor	ne <u>(</u>	(919)	451	- 1725		_ <u></u>
νą	ger			KŢ	м					Sa	ampler	PA	m k	JM				
¥e	ather	· _	P. 0	2(00	07	50	2 'S			Date	11/11	92	Ti	ime _	0735	-		
<u></u>)rı		une:	R	Fib	er v-Lin	ed] s	teel	Fon [] Poly] Closed '	[[]] Stai	nless S	Steel] Nicl	cel	
										0								
										1/2							<u></u>	
							•						~11.4 [لــ				
				•		Color				Layer			-	וס	rn ۹	04		
		Phys	iicai a			Use		r	1	Layer hickness Inches								
	Layers	Liquid	Solid	_	e	Std. Colors	ar	Cloudy	Opaque		•	d Mete						
	La)	ะ้ำ	Sol				บื	ü	^а о		Oti	ier 7	-10 =		LE	2/0z =	134	
	т	教义		X	 	Be			X	6		, <u> </u>		<u></u>				
		4¥ 1		¥		BR			X	6		'G Nan						
	В	EX		X		BR		l	X	6	Ch	emical	Name		NKN	لمدرو		<u>.</u>
d	ditio	nal I	nfor	mati	on:	Lo	τ	201	50	ren/we	37	NEAR	Re	UL RA	<u>#5</u> 7	RACK	<u>{</u>	
	Phys	ical S	tato		Color		ABO		ORY Wate	COMPATI						0.1	D !-1	1771 -
		ICAL C			Use			T	Sol.	React.	pH Std.	Hex. Sol. S or I	Per.	Oxid. + or •	CN + or -	Sul. + or -	Biel- Stein + or -	Fla Poi
		Solid	Gel	Sludge	Std. Color	<u>4</u>	Cloudy	Opaque	S or 1 Densi	W-Water		0011						a (la
Layers	Liquid	Š			1			X	I	-	5	5	-		1	-	-	14
	🗡 Liquid	М	Х		Been	~		1	1			1				1		
X H Lavers		й 	Х		BROW									ļ		<u> </u>		
r		Š	X		Bluw													
r vi B	X			Ξ			-RPc	5 2 2	0F (<u>на</u> А~~	2-2-2-5	ALL	Sami	Pues u				76

Field Reviewer	K.JM/	PAM

1

3

Compatibility Comp. Bulk No. <u>6- 6こと</u>

- 6	<u>(</u>																		
Bake	Enviro	nmental												-	D	rum No	»⊂	> <u>5 5</u>	
Proj	ect I	Joca	tion		CA.	mp		5_	120	NE		Pr	oject N	lo					
Proj	ect I	Mani	ager	_	R	PL	~					Те	lephor	ie _	(919)	45	1-172	25	
Log	ger			. t	<j~< td=""><td>۸</td><td></td><td></td><td></td><td></td><td> Sa</td><td>ampler</td><td><u> </u></td><td>1m</td><td>KIM</td><td></td><td></td><td></td><td></td></j~<>	۸					Sa	ampler	<u> </u>	1m	KIM				
											Date _								
Dru		me:	R	Fib Pol	er v-Li	ned] r		teel ing'	Гор [] Poly] Closed ?	Гор [] Stai	nless S rpack	Steel ed] Nicl	cel	
	-	-														Othe	r		
				_		-					1/2								
												_		< 11 2 [4		
DI U				•		-	lor		larit					र	וק	<u>م</u>	.7		
}		Phys	ical S	late	1		se			T	Layer hickness Inches		d Mete					· ·	
	Layers	Liquid	Solid	Gel	Sludge .	S	id. lors	Clear	Cloudy	Opaque			ner <u>/</u>						
	т		X			wц				X	6				<u> </u>				
	м		X			WH				X	5	MF	'G Nan	1e <u>P</u>	HILAD	CLPH,	A, PA	т М Г	
2	В		X			ws	4			X	5	Ch	emical		•			Ann Acco	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
į															Ą	• کر ا تا ۲			
Add	litio	nal I	nfor	mati	on:	A	CON	<u>78</u> %	(16) 4	TING	ALL	sτ (-	- 50 UT H	0,-	LO	7 20	<u>)</u>	-	
													-				-		
	Phys	ical S	itate		Col	or T		ABO		Water	COMPAT	BILITY	ANA	LYSES Per.) Orid.	CN	Sul.	Biel-	Flash
	,.			[Us Us				- 	Sol.	A·Air	Std.	Sol. Sor I	+ or •		+ 01.	+ 07 -	Stein + or -	Point
Layers	Liquid	Solid	Gel	Sludge	Sta Cold	d.	Clear	Cloudy	Opaque	S or I Densit	W · Wate	1	5011				1 01 -	1.01-	or F
т		X			WIA	π			×	I	-	13	Ī		+		+	+	7180
М																			
в																			
											46 A~ac _7 8.2			ΜΡιες	ωση	. 5 (ن.م		en ro	
Dat	a Re	view	/er	MI	001	1 KJ	<u>M</u>		<u> </u>		Co	mpatibi	lity Co	mp. Bı	ılk No.	6	- <u>Bic</u>		<u></u>
Fiel	d R	งก่อง	Ver	ĸ	JM	1 p,	A M												

Т

ł

ł

	Enviror	imental,	12 (m. 17	i												. Do	56	
Pro	ect I	ocat	ion	Ĺ	Ar	1P · 1	EJ	ور م	2		_ Pro	oject N	o	.1913	33			
Pro	ect N	lane	ıger		R	PW_	<u>177</u>				Te	lephon	e _	(919)	45	1- 17	25	
Jog	ger			(<u> </u>	1				San	pler	PA	m H	KJNI				
¥ea	ther) <u>, C</u>	6000	<u>Y</u>	50's				Date	11/1/	92	_ Ti	me –	822	- 0	933	
				Fib	er] s	teel		Poly Closed To] Stair	iless S	teel] Nick	el	
										∫∑ 16 								
										1/2					MT []		
Dru	m Co	ondi	ion:		Goo	d 🗌						, .				ح		
1		Phys	ical S	tate		Color	(larity	L. Thie	ayer ckness								
	e	p			ge .	Use Std.		dy	ant In	ches		l Meter						
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Oth	ier <u>F</u>	10=	0	LĒL	C 2 =	Bq	-
	Т		X			ωH			×	2	·		<u></u>	·+				
	м	X	X			wil			X ·	2	MF	GNam		UNKI	<u></u>	,		
	в	*	X			wн			×	2	Che	emical	Name		KNOU	ר ג		
						K			ARC	4 <u>5</u> 03.	9ECTC	7 7	> م	CC NTA	<u>ن</u> کہ ب	~~~ · · · ·	<u>- Sc</u>	<u> </u>
	611						ARC	RAT	ORY CO	OMPATIE	SILITY	ANAI						
													n	Oxid.	CN	Sul.	Biel-	Fla
		sical £	itate		Col	or	Clarit	y T	Water Sol.	React.	pH	Hex. Sol.	Per.				Stein	
	Рьу	pical S	State To 5	Sludge	Col Us Sti Col	or le d.	Clarit	opaque		React. A - Air W - Water	pH Std. Unit		+ or -	+ or -	+ or -	+ or -	+ or -	٩
<u> </u>	Рьу			Sludge	Us St Col	or	Clarit	- T	Sol. Sol. S or I	A - Air	Std.	Sol.		+ or -	+ or -	+ or -		- (Fr
Luvers	Рьу	Solid		Sludge	Us St Col	or d. He ors O	Clarit	Opaque	Sol. Sol. S or I Density	A - Air W - Water	Std. Unit	Sol. S or I		+ or -		+ or - '		Poi Tr
L Lavers	Рьу	Solid		Sludge	Us St Col	or d. He ors O	Clarit	Opaque	Sol. Sol. S or I Density	A - Air W - Water	Std. Unit	Sol. S or I		+ or -		+ or -		e (gr
T M B	Phys	X	Gel			or d. Hors Ors	Clarit Appno ID	X Opaque	Sol. Sol. Sor I Density	A - Air W - Water	Std. Unit	Sol. SorI	+ or -				+ or -	71

Field Reviewer KIM / PAM

3

)

)

3

÷

Baker Environmental, in the Drum No.	057
Project Location <u>CAMP LEJEUNE</u> Project No. <u>19133</u>	
Project Manager <u>RPW</u> Telephone <u>(919)</u> 451-1	725
Logger KJM Sampler PAM_KJM	·
Weather <u>P. Cloudy 50's</u> Date <u>11/7/92</u> Time <u>0945</u>	······
Drum Type: Doly-Lined Ring Top Closed Top Overpacked	ickel
Drum Size: 85 5 55 42 30 16 10 5 0ther	
Drum Contents: Amount Full 3/4 🔂 1/2 🗌 1/4 💭 <1/4 🗌 MT 🗌	
Drum Condition: Good 🗌 Fair 🗌 Poor 🛱	
Physical State Color Clarity Layer pH PID Thickness	ppm
	mr/h
state state	BG
T X X 2	
M X 2 MFG Name UNKNOWN	
B X 2 Chemical Name UNKNOWN)
Additional Information: RAVINE SUSPECTED OIL MATERIAL	
LABORATORY COMPATIBILITY ANALYSES	
Physical State Color Clarity Water React. pH Hex. Per. Oxid. CN Su Sol. Sol.	Stein Po
si pi pi sol, SorI SorI + or + or + or + or + or + or + or +	r + or ·
T X X S - 6 I	7,
M A A A A A A A A A A A A A A A A A A A	
B	

Comments:	NOTE	FOR	THE	PURPOSE	oF	LAD	ANALYSED	ALL	SAMPLES	were	Caus, Omini D	70	б
											INCLE CAYER		

) PCB Conc.	NA	ppm	Flash Point	782	•C
-------------	----	-----	-------------	-----	----

Data Reviewer MOB/KJM

Compatibility Comp. Bulk No. <u>6- Bej</u>

Field Reviewer KJM / PAM

35	Ke														r	<u> </u>	, <u></u>		
Bak	er Enviro	innenia	l.m												D	rum No). 59	BDO	58
Pro	ject	Loca	tion		Сам	p []	Jar	N E_				Pr	oject N	lo					
Pro	ject	Man	ager		RP	² ω	<u> </u>					Te	lephor	ne _	(919	<u>) 4-s</u>	<u> </u>	725	
Log	ger				KJ,	~1				·····	Sa	mpler	<u>P</u>	AM	KJn	1			
Wea	Weather <u>P. CLOUDY 50'S</u> Date <u>11/7/31</u> Time 0927																		
Dru	ım T	ype:		Fib Pol	er y-Lir	ıed		teel ling'	Тор	Poly Close	y sed T	op [] Stai] Ove	nless S rpack	Steel ed] Nick	cel	
Dru	ım Si	ze:	85		5	5	4	2]	30 🗌	16	6	10 [5 🕅	Othe	r	· • • • • • • • • • •	
Dru	ım C	onte	nts:	Am	ount	Full	X	3/-	4 🗌	1/2		1/4 []	<1/4 [мт []		
Dru	Drum Contents: Amount Full 3/4 1/2 1/4 MT Drum Condition: Good Fair Poor X																		
		Phy	sical S	State		Color		Clarit	y	Layer Thicknes								pr	
	é0	P			•	Use Std.		<u>►</u>	en	Inches		Rad	l Mete	r	• 2	ur/	hr	m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque			Oth	er 1	- 1D =	0	LĒL	102=	BG	
	т		X			GR BL			X	4		•			•				<u></u>
	м		X			GR BI			X	4		MF	G Nan	ne	UNK	مد و رد	J	<u></u>	
	В		Х			GLOL			X	4		Ch	emical	Name		<u></u>	~~		
	ditio:					<u>Com</u>			•	ST F		e~70il		USA	2 -	82	(2	5 1bs	<u>.)</u>
	pC.	'																	
·										Y COMP	·					·			.
	Phy	sical	state		Colo		Clarit	.у Т	Wa Sc	ol.		pH	Hex. Sol	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
1	PI	_		ge	Us Std		dy	enb	So So	1	Air Water	Std. Unit	SorI	+ or -	+ or •	+ or •	+ or •	+ or •	°C or F

Layers	Liquid	Solid	Gel	Sludge	Std. Colors	Clear	Cloudy	Opaque	S or I Density	W-Water	Unit				+ 0, •		or*F
Т		X			BLOWN			x	I		5	۴s		—		 	7 180
м														-			
в																	
								•	•				A	L	.	 	

Comments: <u>~~~</u>	FOR THE PU.	RPUSE OF LAB	ANALYSES	ALL	SAMPLES	word	Considento	52
) PCB Conc		Flash Point					Sirace (Ayeret	
Data Reviewer	MDB KJM		Compa	atibilit	y Comp. Bu	lk No	6 B11	
Field Reviewer	KJM / PAM							

Baker Environmental.
Project Location <u>CAMP LEJEUNE</u> Project No. <u>19133</u>
Project Manager <u>RPW</u> Telephone <u>(919)</u> 451-1725
Logger <u>KJM</u> Sampler <u>PAM KJM</u>
Weather <u>P. CLOUDY 50's</u> Date <u>11/1/92</u> Time <u>0455</u>
Image: Steel Image: Steel <td< td=""></td<>
Drum Size: 85 55 42 30 16 10 5 🗙 Other
Drum Contents: Amount Full 🕅 3/4 🗌 1/2 🗌 1/4 🗌 <1/4 🗌 MT 🗍
Drum Condition: Good 🗌 Fair 🗌 Poor 📈
Physical State Color Clarity Layer pH PID ppm
v_{i} v_{i}
M MFG Name UNKNOWN
B Chemical Name wawa
Additional Information: NOAR RAVINE ADJACONT TO DRUMS IN THE GLOUND - CONTAINED NUTS/BOLTS IN BURLAF SACKS NO SAMPLE TAKEN
LABORATORY COMPATIBILITY ANALYSES

,

١

ì

)

Ĵ

à

Physical State			Color Clarity			Water Sol.	React	pH	Hex. Sol.	Per.	Orid.	CN	Sul.	Biel- Stein	Flash Point			
Layers	Liquid	Solid	Gol	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	+ or -	+ or -	+ or -	+ or -	*C or*F
т																		
м																		
В																		
\$			-		pp				n Point		_ •c							
Dat	a Re	viev	ver		,					Com	patibi	lity Co	mp. Bı	ilk No.	·			<u> </u>
Fie	ld Re	eviev	ver															

	ke										
Bake	r Enviro	nmenla				<u></u>					Drum No. Do 60
Pro	ject l	боса	tion	-	Сал	1P Le	ττεν	NE			Project No/9/33
Pro	ject l	Mana	ager		R	PW				·	Telephone (919) 451-1725
Log	ger				K	JM					Sampler Prim KJM
											11/7/92 Time 1000
Dru	m Ty	ype:		Fib Pol	er y-Li	ned [] S] R	teel ling '	Гор	D Poly Close	Stainless Steel Nickel Overpacked
Dru	m Si	ze:	85		1	55 🕅	4	2]	30 🗌	16 [10 [5] Other
Dru	m C	onte	nts:	Am	oun	t Full	X	3/4	4 🗌	1/2 🗌	1/4 🗌 <1/4 🗌 MT 🗍
Dru	m C	ondi	tion:		Goo	d 🗌			Fai		Poor 🛛
		Phys	ical S	State		Color		Clarit	y	Layer Thickness	pH <u>6</u> PID <u>4.7</u> ppm
	-					Use Std.		~	9	Inches	Rad Meter 2 ^{llr} /hr mr/hr
	Layers	Llquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Other $F_{1D=0}$ $L_{EL} O_2 = BC$
	т	X					X			12	······································
ļ	м	К					X			12	MFG Name SHELL OIL
	В	\checkmark			X		ĸ	X		12	Chemical Name
						LUB	7250 E 0.	-			
Ado	ditio	nal I	nfor	mati	on:			_		LOCAT	OD NORR TEST PIT BY
R	q VIN	عر		Mis	م مرامحة	; B	OTH	Ż	300	45	
L											

÷

1

)

à.

ŧ

ð

	Phys	ical S	tate		Color	0	Clarity	Ÿ	Water Sol.	React	pН	Hex. Sol.	Per.	Orid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or F
Т	×					X			5	-	6	I		-	-		-	7180
м																		
В																		

Comments: Nor	E FOR THE	PURPUSE OF L	AB ANALYSES AL	L SAMPLES W.	ERE CONSIDERED	<u>7-</u> 0
)PCB Conc. 🦯	VA ppm	Flash Point	<u> </u>	B≥	SINGLE (AYOUD	
Data Reviewer	MOB KJ	Ч	Compatibility	Comp. Bulk No.	6-603	
Field Reviewer	KJM / PA,	м				

Baker Environmental, D C	61
Project Location <u>CAMP LEJEUNE</u> Project No. <u>19133</u>	
Project Manager <u>RPW</u> Telephone <u>(919)</u> 451-172	5
Logger KJM Sampler PAM KJM	
Weather <u>P. CLOUDY 50's</u> Date <u>11/7/92</u> Time 0852	
Fiber Steel Poly Stainless Steel Nicket Drum Type: Poly-Lined Ring Top Closed Top Overpacked	
Drum Size: 85 5 55 42 30 16 10 5 X Other	
Drum Contents: Amount Full 🗌 3/4 💢 1/2 🗌 1/4 🗌 <1/4 🗍 MT 🗍	
Drum Condition: Good 🗌 Fair 🗌 Poor 🕅	
Physical State Color Clarity Layer pH <u>5</u> PID <u>447</u> Thickness	_ ppm
Use Inches Rad Meter 0.2	_ mr/hr
signed for the set of the s	B4
T X Be X 6	
M X BR K 6 MFG Name UNKNOWN	
B X BR X 6 Chemical Name UNKNOWN	
CONTAINT SAMPLED ALONG ROADWAY FLINSTON? 2.5 GALLON CONTAINTS DLING ROAD LOADIN Additional Information: <u>5 GALLON CONTAINTS IN</u> RAVINE AREA LOAKIN	TO RAVIA
BLACK SUBSTANCE LEAKING FROM SIDE TO SOIL	

}

3

Ì

È

LABORATORY COMPATIBILITY ANALYSES

	Phys	ical S	itate		Color	(Clarity	7	Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or -	+ or -	+ or -	+ or -	+ or -	•C or*F
Т		$\boldsymbol{\chi}$			BROWN			X	Ĩ	-	5	5					-	140
м																		
В																		

Comments: NOTE FOR THE PURPOSE OF LAD	ANALYSES ALL SAMPLES WERE CONS. DERED TO BE
PCB Conc ppm Flash Point	60 °C
Data Reviewer MDB / K.J.M	_ Compatibility Comp. Bulk No. <u>6-308</u>
Field Reviewer KIM / PAM	_

35	Ke																	
Bak	er Envirol	nmental	-	İ	,					-				Dr	um No	.Do	<u>67</u>	
Pro	ject I	Joca	tion		Can	1P_L	<u>55</u>	ישא צ	, 		_ Pr	oject N	o					
Pro	ject I	lana	ager		ĸ	PW					_ Te	lephon	e _(919)	45,	/ - / 7 2	25	
Log	ger				КJ	~ <u>M</u>	.,			Sar	npler	P	ANI	KJM				
Wea	ather		? <u>.</u> C	600	ργ	50'	5			Date	1/7/1	2	Ti	me _	10,	15		
1										Poly Closed To								
1										16								
						•				1/2		• •	<1/4 [MT [J		
Dru	ım Co	ondi	ion:	-	Goo	d 🗌			Fair [Poor	X						
		Phys	ical S	itate		Color		larity		ayer ckness	pH		5	_ PI	D_0	,5	pr	m
						Use Std.		2	Tr	ches	Rad	l Meter	r	0.3			m	r/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Oth	ner <u>/</u>	-10= (٥, ١	LEL	02=	BG	
	Т	X						X		6			<u>.</u>	•		<u> </u>	, <u>, .</u>	<u> </u>
ļ	м	X						x		6	MF	'G Nan	ne	JAKA	لمهم			
1	В	X						7		0	Che	emical	Name	_M <	5 P_	?		
1						85				207	20	3	Uran	<u> Por</u>	له <i>ر فرز</i> ۲ /	<u> </u>	0 مم مر ر	<u></u>
						L	ABO	RAI	CORY CO	OMPATII	BILITY	ANA	LYSES	3				<u></u>
	Phy	sical S	State		Col	or	Clarit	у	Water Sol.	React.	pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flas. Poin
Lavars	Liquid	Solid	Gel	Sludge	Us Sta Cole	a. y	Cloudy	Opaque	Sol. Sol. Sor I Density	A - Air W - Water	Std. Unit	S or I	+ or -	+ or -	+ or -	+ or •	+ or -	°C T T

		•.										
т	\times			X		5	 5	I	 	-	 	7180
м												
в												
			 				-					

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYONED

Flash Point _ > 82 °C) PCB Conc. _____ ppm

Data Reviewer MOB /KJM

ł

Ì

Compatibility Comp. Bulk No. <u>6-3c1</u>

Field Reviewer KJM/PAM

-0	ke										
Rake	Enviro	nmental	, i =								Drum No. D.063
											Project No
Proj	ect I	Man	ager	_	K	PW					Telephone (919) 4.51-1725
Log	ger	33-		K	, JM						Sampler <u>PAIM</u> KJIM
Wea	ther		P. C.	1.01	04	50	5			Date	11/7/92. Time 0822
Dru	m Ty	ype:		Fib Pol		ned [] S] R	teel ing'	Гор	Poly Close	Stainless Steel Nickel Overpacked
Dru	m Si	ze:	85		i	55 🗌	4	2		30	16 10 10 5 Other
Dru	m Co	onte	nts:	Am	oun	tFull [3/-	4 🗌	1/2	1/4 🗌 <1/4 🗍 MT 🗍
Dru	m Co	ondi	tion:		Goo	d 🗌			Fair	· 🛛	Poor X
[Phys	sical S	State		Color	(Clarit	ÿ	Layer Thickness	pH <u>12</u> PID <u>0, 8</u> ppm
	eo	q			e e	Use Std.		ły	en	Inches	Rad Meter mr/hr
	Layers	Liquid	Solid	Gel	Sludge	Colors	Clear	Cloudy	Opaque		Other $F_{10} = 0$ $L_{EL} _{02} = B_{4}$
	Т		X						X	2	
	м		X						X	2	MFG Name
	В		X						X	n	Chemical Name บมะงอมง
Add	litio	nal I:	nfor	mati	on:	50-7	H.	0	Fι	<u></u>	203 WOODED AREA
	ωH					LINZ					
						L	ABO	RAI	FOR	Y COMPA	TIBILITY ANALYSES

ì

;

2

ļ

	Phys	ical S	State		Color	C	Clarit	y	Water Sol.	React	pН	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel- Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	SorI	+ or - 1	+ or -	+ or -	+ or -	+ or -	°C or°F
Т		×			WHITE			X	I	-	12	I	-		-		—	718c
м																		
В																		

Comments: Nore For	THE PURPOS	E OF LAB	ANALYSES	ALL SAMPLES WOR	E CONSIDENCE TO BE
PCB Conc.	ppm F	lash Point	782	•C	Sincle (Avered
Data Reviewer	!KJM		Compa	tibility Comp. Bulk No	6 - Bog

Field Reviewer KJM/PAM

Summary of Compatibility Analyses

I

)

):

SUMMARY OF COMPATIBILITY ANALYSES

BATCH NO. 6-B01

Base Neutral Liquid with Solids #1

١

Water soluble pH = 5.0

}

3

3

}

D004, D024, D031, D044, D047, D062, D010-(no solids)

BATCH NO. 6-B02

Base Neutral Liquid with Solids #2

Water Soluble pH = 6.0

D002, D009, D017, D032, D033, D034, D008-(oil w/water)

BATCH NO. 6-B03

Base Neutral Liquid with Solids #3

Water soluble pH = 6-7

D005, D006, D007, D040, D057, D060, D011-(oil w/water)

BATCH NO. 6-B04

Base Neutral Liquid #1

Water Soluble . pH = 5-7

D003, D016, D018, D022, D025, D037, D042

BATCHNO. 6-B05

L

Combustible Liquid #1

Hexane and Water Soluble pH = 4 100-200°F

D001, D027, D038, D039, D041, D043

BATCHNO. 6-B06

Flammable Liquid #1

Hexane Soluble pH = 5 70-140°F

D012, D014, D015, D050, D052

BATCHNO. 6-B07

Combustible Liquid #2

Hexane Soluble pH = 4 100-200°F

)

}

D013, D051, D053

BATCHNO. 6-B08

Flammable Solid #1

Hexane Soluble pH = 5 < 70°F

D054, D061

BATCHNO. 6-B09

Corrosive Solid #1

pH = 12 > 180°F

D063

3

3

;

5

1

BATCH NO. 6-B10

Corrosive Solid #2

pH = 13 > 180°F Strong oxidizer and sulfide

D055

BATCH NO. 6-B11

Base Neutral Solid #1

pH = 3 > 180°F

D056, D058

6-B01 11-9-92 0845

WO #: A2162111 LAB #: A2K120024-001 MATRIX: SLUDGE

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

- - - - - - - - - - - - TCLP VOLATILE ORGANICS - - - - -

| PARAMETER | RESULT
<u>(mg/l)</u> | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATC</u> |
|----------------------|-------------------------|-----------|------------|-------------------------------|-------------------|
| Benzene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Methyl ethyl ketone | ND | 0.05 | SW846 8240 | 11/18/92 | 32303 |
| Carbon tetrachloride | ND . | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Chlorobenzene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Chloroform | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| 1,2-Dichloroethane | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| l,l-Dichloroethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Tetrachlorethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Trichloroethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Vinyl chloride | ND | 0.01 | SW846 8240 | 11/18/92 | 32303 |

| SURROGATE RECOVERY | <u>8</u> | ACCEPTABLE LIMITS |
|-----------------------|----------|-------------------|
| l,2-Dichloroethane-d4 | 86 | (76 - 114) |
| Toluene-d8 | 101 | (88 - 110) |
| Bromofluorobenzene | 104 | (86 - 115) |

NOTE: AS RECEIVED

1

ND ONONE DETECTED)

6-B01 11-9-92 0845

WO #: A2162112 LAB #: A2K120024-001 MATRIX: SLUDGE

| • | DATE RECEIVED: | 11/12/92 |
|------|------------------|----------|
| TCLP | EXTRACTION DATE: | 11/17/92 |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

۰,

| PARAMETER | RESULT
(mq/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|------------------------------|--------------------|
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |

| SURROGATE RECOVERY | <u>8</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 89 | (35 - 114) |
| 2-Fluorobiphenyl | 69 | (43 - 116) |
| Terphenyl-d14 | 101 | (33 - 141) |
| 2-Fluorophenol | 68 | (21 - 100) |
| Phenol-d5 | 54 | (10 - 94) |
| 2,4,6-Tribromophenol | 70 | (10 - 123) |

NOTE: AS RECEIVED

1

1 ...

ł

ND (NONE DETECTED)

į.

2

BARER ENVIRONMENTAL INC

6-B01 11-9-92 0845

WO #: A2162212 LAB #: A2K120024-001 MATRIX: SLUDGE

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching

Procedure Method 1311 (55 FR 26986)

Т

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS_DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|------------------------------|--------------------|
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Cresols, Total | DИ | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400 |

| SURROGATE RECOVERY | <u> 4</u> | ACCEPTABLE LIMITS |
|----------------------|-----------|-------------------|
| Nitrobenzene-d5 | 96 | (35 - 114) |
| 2-Fluorobiphenyl | 71 | (43 - 116) |
| Terphenyl-dl4 | 121 | (33 - 141) |
| 2-Fluorophenol | 92 | (21 - 100) |
| Phenol-d5 | 62 | (10 - 94) |
| 2,4,6-Tribromophenol | 87 | (10 - 123) |

NOTE: AS RECEIVED

ł

ND (NONE DETECTED)

6-B01 11-9-92 0845

WO #: A2162110 LAB #: A2K120024-001 MATRIX: SLUDGE

- -

t

.

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

.

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mq/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS_DATE | QC
BATCH |
|--------------------|-------------------|-----------|------------|-------------------------------|-------------|
| Lindane | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Chlordane | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Endrin | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Toxaphene | ND | 0.005 | SW846 8080 | 11/19-11/21/92 | 324011 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Dibutylchlorendate | 62 | (24 - 154) |
| Tetrachloro-m-xylene | 63 | (60 - 150) |

NOTE: AS RECEIVED

ND (NONE DETECTED)

ંેન્



ł

BAKER ENVIRONMENTAL INC

6-B01 11-9-92 0845

| WO #: A2162109 | |
|----------------------|--------------------------------|
| LAB #: A2K120024-001 | DATE RECEIVED: 11/12/92 |
| MATRIX: SLUDGE | TCLP EXTRACTION DATE: 11/17/92 |
| | |
| REQUESTED PARAMETERS | |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Т

| PARAMETER | RESULT
(mg/l_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|---------------------------|-------------------|------------|--------|----------------------------------|--------------------|
| 2,4-D
2,4,5-TP(Silvex) | ND
ND | 0.5
0.1 | | 11/17-11/20/92
11/17-11/20/92 | |

| SURROGATE | RECOVERY |
|-----------|----------|
| | |

*

ACCEPTABLE LIMITS

2,4-DB

1

73

(48 - 131)

NOTE: AS RECEIVED ND (NONE DEFECTED)

6-B01 11-9-92 0845

| WO #: A2162 | |
|----------------------|--------------------------------|
| LAB #: A2K120024-001 | DATE RECEIVED: 11/12/92 |
| MATRIX: SLUDGE | TCLP EXTRACTION DATE: 11/17/92 |
| | FINAL PH:6.4 |
| RCRA METALS - | |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

t

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------|--------|-----------|------|------------|--------------------------------|--------------------|
| TCLP META | ALS | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Arsenic | ND | 0.5 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Barium | ' DN | 1.0 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Cadmium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Chromium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Lead | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Selenium | DN | 0.3 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/17-11/18/92 | 322053 |

NOTE:

AS RECEIVED ND (NONE DETECTED)



۳**.**]

1

BAKER ENVIRONMENTAL INC

6-B01 11-9-92 0845

WO #: A2162 LAB #: A2K120024-001 MATRIX: SLUDGE

.

Т

DATE RECEIVED: 11/12/92

| INORGANIC ANALYTICAL | REPORT |
|----------------------|--------|
|----------------------|--------|

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------------------|--------|-----------|-------|--------------|--------------------------------|--------------------|
| Flash Point Closed Cup | >180 | 10 | deg F | SW846 1010 | 12/03/92 | 233803 |
| pH Non-Aqueous | 5 | | su | SW846 9045 | 11/12/92 | 317036 |
| Cyanide, Reactive | ND | | mg/kg | SW846 7.3.3. | 11/13/92 | 321009 |
| Sulfide, Reactive | ND | 50 | mg/kg | SW846 7.3.4. | 11/13/92 | 321013 |
| Solids, Total (TS) | 1.2 | 0.5 | Դ | USEPA 160.3 | 11/13-11/16/92 | 318029 |

NOTE: AS RECEIVED ND (NONE DETECTED)

6-B02 11-9-92 0900

WO #: A2164111 LAB #: A2K120024-002 MATRIX: SLUDGE

| | DATE RE | CEIVED: | 11/12/ | /92 |
|------|------------|---------|--------|-----|
| TCLP | EXTRACTION | DATE: | 11/17/ | /92 |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATC</u> ł |
|----------------------|-------------------|-----------|------------|------------------------------|---------------------|
| Benzene | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| Methyl ethyl ketone | ND | 0.05 | SW846 8240 | 11/18/92 | 323033 |
| Carbon tetrachloride | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| Chlorobenzene | ND | 0,005 | SW846 8240 | 11/18/92 | 323033 |
| Chloroform | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| 1,2-Dichloroethane | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| 1,1-Dichloroethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| Tetrachlorethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| Trichloroethylene | ND | 0.005 | SW845 8240 | 11/18/92 | 323033 |
| Vinyl chloride | D | 0.01 | SW846 B240 | 11/18/92 | 323033 |

| SURROGATE RECOVERY | 34 | ACCEPTABLE LIMITS |
|-----------------------|-----|-------------------|
| 1,2-Dichloroethane-d4 | 87 | (76 - 114) |
| Toluene-d8 | 101 | (88 - 110) |
| Bromofluorobenzene | 102 | (86 - 115) |

A NOTE: AS RECEIVED ND (NONE DETECTED)

्रेष्



6-B02 11-9-92 0900

WO #: A2164112 LAB #: A2K120024-002 MATRIX: SLUDGE 1

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|------------------------------|--------------------|
| l,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |

| SURROGATE RECOVERY | <u>•</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 84 | (35 - 114) |
| 2-Fluorobiphenyl | 69 | (43 - 116) |
| Terphenyl-d14 | 95 | (33 - 141) |
| 2-Fluorophenol | 63 | (21 - 100) |
| Phenol-d5 | 49 | (10 - 94) |
| 2,4,6-Tribromophenol | 72 | (10 - 123) |

NOTE: AS RECEIVED

ND NONE DETECTEDI

6-B02 11-9-92 0900

WO #: A2164212 LAB #: A2K120024-002 MATRIX: SLUDGE I.

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 12/01/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
<u>(mg/L_)</u> | REPORTING | METHOD | EXTRACTION-
ANALYSIS_DATE | QC
<u>BATCH</u> |
|-----------------------|--------------------------|-----------|------------|------------------------------|--------------------|
| | | | | | |
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Pyridine | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |

| SURROGATE RECOVERY | <u>ع</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 105 | (35 - 114) |
| 2-Fluorobiphenyl | 74 | (43 - 116) |
| Terphenyl-d14 | 114 | (33 - 141) |
| 2-Fluorophenol | 84 | (21 - 100) |
| Phenol-d5 | 59 | (10 - 94) |
| 2,4,6-Tribromophenol | 95 | (10 - 123) |

NOTE: AS RECEIVED

ND (NONE DETECTED)

INSUFFICIENT SAMPLE TO RE-ENTRACT.

6-в02 11-9-92 0900

| WO #: A2164110 | | |
|----------------------|-----------------------|----------|
| LAB #: A2K120024-002 | DATE RECEIVED: | 11/12/92 |
| MATRIX: SLUDGE | TCLP EXTRACTION DATE: | 11/17/92 |
| | | |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

L

| PARAMETER | RESULT
(mg/l_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|--------------------|-------------------|-----------|------------|------------------------------|--------------------|
| Lindane | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 32401 |
| Chlordane | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 32401 |
| Endrin | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 32401 |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 32401 |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 32401 |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/19-11/21/92 | 32401 |
| Toxaphene | ND | 0.005 | SW846 8080 | 11/19-11/21/92 | 32401: |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Dibutylchlorendate | 34 | (24 - 154) |
| Tetrachloro-m-xylene | 64 | (60 - 150) |

NOTE: AS RECEIVED ND (NONE DETECTED) UNKNOWN HINDROCARBON PATTERNS.

÷



6-B02 11-9-92 0900

WO #: A2164109 LAB #: A2K120024-002 MATRIX: SLUDGE L

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS_DATE | QC
<u>BATCH</u> |
|------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| 2,4-D | ND | 0.5 | SW846 8150 | 11/17-11/20/92 | |
| 2,4,5-TP(Silvex) | DM | 0.1 | SW846 8150 | 11/17-11/20/92 | |

| SURROGATE RECOVERY | <u>3</u> | ACCEPTABLE LIMITS |
|--------------------|----------|-------------------|
| 2,4-DB | 68 | (48 - 131) |

NOTE: AS RECEIVED ND (NONE DETECTED)



6-B02 11-9-92 0900

WO #: A2164 LAB #: A2K120024-002 MATRIX: SLUDGE

1

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92 FINAL PH:6.4

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

. 1

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-------------|--------|-----------|--------|------------|--------------------------------|--------------------|
| TCLP METALS | | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Arsenic | ND | 0.5 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Barium | ND | 1.0 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Cadmium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Chromium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Lead | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Selenium | ND | 0.3 | mg/L . | SW846 6010 | 11/17-12/04/92 | 322053 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/17-11/18/92 | 322053 |

NOTE:

i ો

<u>ن</u>ي ۲

AS RECEIVED

ND (NONE DETECTED)

ਾ ਹੈ

BAKER ENVIRONMENTAL INC

6-B02 11-9-92 0900

WO #: A2164 LAB #: A2K120024-002 MATRIX: SLUDGE 1

DATE RECEIVED: 11/12/92

| PARAMETER | RESULT | REPORTING
LIMIT | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------------------|--------|--------------------|-------|--------------|--------------------------------|--------------------|
| Flash Point Closed Cup | >180 | 10 | deg P | SW846 1010 | 12/03/92 | 233803 |
| pH Non-Aqueous | 5 | | su | SW846 9045 | 11/12/92 | 317036 |
| Cyanide, Reactive | ND | | mg/kg | SW846 7.3.3. | 11/13/92 | 321009 |
| Sulfide, Reactive | ND | 50 | mg∕kg | SW846 7.3.4. | 11/13/92 | 321013 |
| Solids, Total (TS) | ND | 0.5 | % | USEPA 160.3 | 11/13-11/16/92 | 318029 |

NOTE: AS RECEIVED ND (NONE DETECTED)

6-B03 11-9-92 0915

WO #: A2166111 LAB #: A2K120024-003 MATRIX: SLUDGE

<u>}</u>

•

:

Т

| | DATE R | ECEIVED: | 11/12/92 |
|------|-----------|----------|----------|
| TCLP | EXTRACTIO | N DATE: | 11/17/92 |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS_DATE | QC
<u>BATC</u> |
|----------------------|-------------------|-----------|------------|-------------------------------|-------------------|
| Benzene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Methyl ethyl ketone | ND | 0.05 | SW846 8240 | 11/18/92 | 32303 |
| Carbon tetrachloride | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Chlorobenzene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Chloroform | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| 1,2-Dichloroethane | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| 1,1-Dichloroethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Tetrachlorethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Trichloroethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Vinyl chloride | ND | 0.01 | SW846 8240 | 11/18/92 | 32303 |

| SURROGATE RECOVERY | ote | ACCEPTABLE LIMITS |
|-----------------------|-----|-------------------|
| l,2-Dichloroethane-d4 | 88 | (76 - 114) |
| Toluene-d8 | 101 | (88 - 110) |
| Bromofluorobenzene | 103 | (86 - 115) |

NOTE: AS RECEIVED ND (NONE DETECTED)

6-B03 11-9-92 0915

WO #: A2166112 LAB #: A2K120024-003 MATRIX: SLUDGE

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| | RESULT | REPORTING | | EXTRACTION - | QC |
|-----------------------|---------|-----------|------------|----------------|---------|
| PARAMETER | (mg/L) | LIMIT | METHOD | ANALYSIS DATE | BATCH |
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/19-11/24/92 | .324013 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |

| SURROGATE_RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 83 | (35 - 114) |
| 2-Fluorobiphenyl | 65 | (43 - 116) |
| Terphenyl-d14 | 82 | (33 - 141) |
| 2-Fluorophenol | 71 | (21 - 100) |
| Phenol-d5 | 57 | (10 - 94) |
| 2,4,6-Tribromophenol | 77 | (10 - 123) |

NOTE: AS RECEIVED

ND (NONE DETECTED)



6-B03 11-9-92 0915

WO #: A2166212 LAB #: A2K120024-003 MATRIX: SLUDGE 1

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 12/01/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| l,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Pyridine | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 12/02-12/04/92 | 233700 |

| SURROGATE RECOVERY | <u>ا</u> د. | ACCEPTABLE LIMITS |
|----------------------|-------------|-------------------|
| Nitrobenzene-d5 | 107 | (35 - 114) |
| 2-Fluorobiphenyl | 73 | (43 - 116) |
| Terphenyl-d14 | 106 | (33 - 141) |
| 2-Fluorophenol | . 85 | (21 - 100) |
| Phenol-d5 | 62 | (10 - 94) |
| 2,4,6-Tribromophenol | 109 | (10 - 123) |

NOTE: AS RECEIVED

ND (NONE DETECTION) INSUFFICIENT SAMPLE TO REJEXTRACT.

6-B03 11-9-92 0915

WO #: A2166110 LAB #: A2K120024-003 MATRIX: SLUDGE

.

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|--------------------|-------------------|-----------|------------|------------------------------|--------------------|
| Lindane | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Chlordane | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 32401: |
| Endrin . | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 32401: |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 32401: |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 32401: |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/19-11/21/92 | 32401: |
| Toxaphene | ND | 0.005 | SW846 8080 | 11/19-11/21/92 | 324013 |

| SURROGATE RECOVERY | <u>۴</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Dibutylchlorendate | 41 | (24 - 154) |
| Tetrachloro-m-xylene | 70 | (60 - 150) |

NOTE: AS RECEIVED

ND (NONE DETECTED)

UNKNOWN BYDROCARBON PATTERN.



6-B03 11-9-92 0915

WO #: A2166109 LAB #: A2K120024-003 MATRIX: SLUDGE

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

T

| PARAMETER | RESULT
<u>(mq/L_)</u> | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------------|--------------------------|-----------|------------|------------------------------|--------------------|
| 2,4-D | ND | 0.5 | SW846 8150 | 11/17-11/20/92 | |
| 2,4,5-TP(Silvex) | ND | 0.1 | SW846 8150 | 11/17-11/20/92 | |

| SURROGATE RECOVERY | <u>۳</u> | ACCEPTABLE LIMITS |
|--------------------|----------|-------------------|
| 2,4-DB | 33* | (48 - 131) |

ND (NONE DETECTED)



6-B03 11-9-92 0915

 WO #: A2166
 DATE RECEIVED: 11/12/92

 LAB #: A2K120024-003
 DATE RECEIVED: 11/12/92

 MATRIX: SLUDGE
 TCLP EXTRACTION DATE: 11/17/92

 FINAL PH:6.5
 FINAL PH:6.5

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

ł

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-------------|------------|-----------|------|------------|--------------------------------|--------------------|
| TCLP METALS | | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Arsenic | ND | 0.5 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Barium | U M | 1.0 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Cadmium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Chromium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Lead | ND | 0.1 | mg/L | SW845 6010 | 11/17-12/04/92 | 322053 |
| Selenium | ND | 0.3 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/17-11/18/92 | 322053 |
| | | | | | | |

NOTE:

AS RECEIVED

ND (NONE DETECTED)



 $p_{i}^{(1)} \rightarrow p_{i}^{(2)}$

BAKER ENVIRONMENTAL INC

6-B03 11-9-92 0915

WO #: A2166 LAB #: A2K120024-003 MATRIX: SLUDGE DATE RECEIVED: 11/12/92

| | | REPORTING | ; | | PREPARATION - | QC | |
|------------------------|--------|-----------|-------|--------------|----------------|---------|--|
| PARAMETER | RESULT | LIMIT | UNIT | METHOD | ANALYSIS DATE | BATCH | |
| Plash Point Closed Cup | >180 | | deg F | SW846 1010 | 12/03/92 | 2338031 | |
| pH Non-Aqueous | 6 | | ธน | SW846 9045 | 11/12/92 | 317036 | |
| Cyanide, Reactive | ND | 10 | mg/kg | SW846 7.3.3. | 11/13/92 | 321009 | |
| Sulfide, Reactive | ND | 50 | mg/kg | SW846 7.3.4. | 11/13/92 | 321013 | |
| Solids, Total (TS) | ND | 0.5 | ÷ | USEPA 160.3 | 11/13-11/16/92 | 318029 | |

NOTE: AS RECEIVED ND (NONE DETECTED)

.

ł

i

ł

6-ВО4 11-9-92 0930

WO #: A2168111 LAB #: A2K120024-004 MATRIX: SLUDGE

:

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
<u>(mg/L)</u> | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATC:</u> |
|----------------------|--------------------------|-----------|------------|-------------------------------|--------------------|
| Benzene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303. |
| Methyl ethyl ketone | ND | 0.05 | SW846 8240 | 11/18/92 | 32303 |
| Carbon tetrachloride | ND | 0.005 | SW846 8240 | 11/18/92 | 32303. |
| Chlorobenzene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303. |
| Chloroform | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| 1,2-Dichloroethane | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| 1,1-Dichloroethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303: |
| Tetrachlorethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Trichloroethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303: |
| Vinyl chloride | ND | 0.01 | SW846 8240 | 11/18/92 | 32303: |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE_LIMITS |
|-----------------------|----------|-------------------|
| l,2-Dichloroethane-d4 | 89 | (76 - 114) |
| Toluene-d8 | 101 | (88 - 110) |
| Bromofluorobenzene | 103 | (86 - 115) |

NOTE: AS RECEIVED ND NONE DETECTED

-

6-B04 11-9-92 0930

WO #: A2168112 LAB #: A2K120024-004 MATRIX: SLUDGE Т

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| | RESULT | REPORTING | | EXTRACTION- | QC |
|-----------------------|----------------|-----------|------------|----------------|--------|
| PARAMETER | <u>(mg/L)</u> | LIMIT | METHOD | ANALYSIS DATE | BATCH |
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |

| SURROGATE RECOVERY | <u>•</u> | ACCEPTABLE LIMITS | | | |
|----------------------|----------|-------------------|--|--|--|
| Nitrobenzene-d5 | 86 | (35 - 114) | | | |
| 2-Fluorobiphenyl | 64 | (43 - 116) | | | |
| Terphenyl-d14 | 117 | (33 - 141) | | | |
| 2-Fluorophenol | 73 | (21 - 100) | | | |
| Phenol-d5 | 58 | (10 - 94) | | | |
| 2,4,6-Tribromophenol | 82 | (10 - 123) | | | |

NOTE: AS RECEIVED

ND (NONE DEFECTED)



.....

6-B04 11-9-92 0930

WO #: A2168212 LAB #: A2K120024-004 MATRIX: SLUDGE 1

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 12/01/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mq/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS_DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|------------------------------|--------------------|
| l,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 233700 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 233700 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 233700 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 23370(|
| Hexachloroethane | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 23370(|
| Nitrobenzene | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 233700 |
| Pentachlorophenol | 0.01 J | 0.2 | SW846 8270 | 12/02-12/05/92 | 233700 |
| Pyridine | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 233700 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 233700 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 233700 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 12/02-12/05/92 | 233700 |

| SURROGATE RECOVERY | 20 | ACCEPTABLE LIMITS |
|----------------------|----|-------------------|
| Nitrobenzene-d5 | 86 | (35 - 114) |
| 2-Fluorobiphenyl | 60 | (43 - 116) |
| Terphenyl-dl4 | 83 | (33 - 141) |
| 2-Fluorophenol | 90 | (21 - 100) |
| Phenol-d5 | 63 | (10 - 94) |
| 2,4,6-Tribromophenol | 96 | (10 - 123) |

NOTE: AS RECEIVED

ND (NONE DETECTED) INSUFFICIENT SAMPLE TO REENTRACT.

J (DETECTED, BUT RELOW QUANTITATION LIMIT; ESTIMATED VALUE)



6-В04 11-9-92 0930

WO #: A2168110 LAB #: A2K120024-004 MATRIX: SLUDGE I.

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

- - - - - - - - - - - TCLP PESTICIDES - - - -

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|--------------------|-------------------|-----------|------------|------------------------------|--------------------|
| Lindane | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Chlordane | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Endrin | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Toxaphene | ND | 0.005 | SW846 8080 | 11/19-11/21/92 | 324011 |

| SURROGATE RECOVERY | <u>•</u> | ACCEPTABLE LIMITS | | |
|----------------------|----------|-------------------|--|--|
| Dibutylchlorendate | 51 | (24 - 154) | | |
| Tetrachloro-m-xylene | 60 | (60 - 150) | | |

NOTE: AS RECEIVED

ND (NONE DETECTED)

UNKNOWN HYDROCARBON PATTERN.



6-B04 11-9-92 0930

WO #: A2168109 LAB #: A2K120024-004 MATRIX: SLUDGE I.

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|---------------------------|-------------------|------------|--------|----------------------------------|--------------------|
| 2,4-D
2,4,5-TP(Silvex) | ND
ND | 0.5
0.1 | | 11/17-11/20/92
11/17-11/20/92 | |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|--------------------|----------|-------------------|
| 2,4-DB | 90 | (48 - 131) |

NOTE: AS RECEIVED ND (NONE DETECTED)

. **X**

. 6-во4 11-9-92 0930

| WO #: A2168 | |
|----------------------|--------------------------------|
| LAB #: A2K120024-004 | DATE RECEIVED: 11/12/92 |
| MATRIX: SLUDGE | TCLP EXTRACTION DATE: 11/17/92 |
| | FINAL PH:7.1 |
| RCRA METALS - | |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

T

| PARAMET | ER | RESULT | REPORTING
LIMIT | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|---------|----------|--------|--------------------|------|------------|--------------------------------|--------------------|
| TCL | P METALS | | | | | | |
| Silver | | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Arsenic | | ND | 0.5 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Darium | | ND | 1.0 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Cadmium | | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Chromiu | m | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Lead | | 1.3 | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Seleniu | m | ND | 0.3 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Mercury | | ND | 0.02 | mg/L | SW846 7471 | 11/17-11/18/92 | 322053 |
| | | | | | | | |

. *

NOTE:

. .

ì

¢-N

AS RECEIVED ND (NONE DETECTED)

1

!

1

BAKER ENVIRONMENTAL INC

6-B04 11-9-92 0930

WO #: A2168 LAB #: A2K120024-004 MATRIX: SLUDGE ł

DATE RECEIVED: 11/12/92

| | - INORGANIC ANALYTICAL REPORT | 8 |
|--|-------------------------------|---|
|--|-------------------------------|---|

| PARAMETER | RESULT | REPORTING
LIMIT | ;
<u>UNIT</u> | METHOD | PREPARATION -
ANALYSIS DATE | QC
BATCH |
|------------------------|--------|--------------------|------------------|--------------|--------------------------------|-------------|
| Flash Point Closed Cup | >180 | 10 | deg F | SWB46 1010 | 12/03/92 | 2338033 |
| pH Non-Aqueous | 6 | | su | SWB46 9045 | 11/12/92 | 317036 |
| Cyanide, Reactive | ND | | mg/kg | SWB46 7.3.3. | 11/13/92 | 321009 |
| Sulfide, Reactive | ND | 50 | mg/kg | SW846 7.3.4. | 11/13/92 | 321013 |
| Solids, Total (TS) | ND | 0.5 | ¥ | USEPA 160.3 | 11/13-11/16/92 | 318029 |

.

NOTE: AS RECEIVED ND (NONE DETECTED)

6-B05 11-9-92 0945

WO #: A2171111 LAB #: A2K120024-005 MATRIX: SLUDGE

| | DATE RECEIVED: | 11/12/92 |
|------|------------------|----------|
| TCLP | EXTRACTION DATE: | 11/17/92 |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATC</u> |
|----------------------|-------------------|-----------|------------|------------------------------|-------------------|
| Benzene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Methyl ethyl ketone | ND | 0.05 | SW846 8240 | 11/18/92 | 32303 |
| Carbon tetrachloride | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Chlorobenzene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Chloroform | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| 1,2-Dichloroethane | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| 1,1-Dichloroethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Tetrachlorethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Trichloroethylene | ND . | 0.005 | SW846 8240 | 11/18/92 | 32303 |
| Vinyl chloride | ND | 0.01 | SW846 8240 | 11/18/92 | 32303 |

| SURROGATE RECOVERY | ž | ACCEPTABLE LIMITS |
|-----------------------|-----|-------------------|
| 1,2-Dichloroethane-d4 | 55 | (76 - 114) |
| Toluene-d8 | 102 | (88 - 110) |
| Bromoflucrobenzene | 102 | (86 - 115) |

NOTE: AS RECEIVED

. .

....

ì

1

BAKER ENVIRONMENTAL INC

6-B05 11-9-92 0945

WO #: A2171112 LAB #: A2K120024-005 MATRIX: SLUDGE t

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING
LIMIT | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|--------------------|------------|------------------------------|--------------------|
| 1,4-Dichlorobenzene | ND | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |
| 2,4-Dinitrotoluene | ND | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |
| Hexachlorobenzene | ND | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |
| Hexachlorobutadiene | ND | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |
| Hexachloroethane | ND | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |
| Nitrobenzene | DN | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |
| Pentachlorophenol | ND | 2.0 | SW846 8270 | 11/19-11/25/92 | 324013 |
| Pyridine | ND | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |
| 2,4,5-Trichlorophenol | ND | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |
| 2,4,6-Trichlorophenol | ND | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |
| Cresols, Total | ND | 0.4 | SW846 8270 | 11/19-11/25/92 | 324013 |

| SURROGATE RECOVERY | 24 | ACCEPTABLE LIMITS |
|----------------------|-----|-------------------|
| Nitrobenzene-d5 | DIL | (35 - 114) |
| 2-Fluorobiphenyl | DIL | (43 - 116) |
| Terphenyl-dl4 | DIL | (33 - 141) |
| 2-Fluorophenol | DIL | (21 - 100) |
| Phenol-d5 | DIL | (10 - 94) |
| 2,4,6-Tribromophenol | DIL | (10 - 123) |

NOTE: AS RECEIVED

ND (NONE DETECTED) ELEVATED DETECTION LIMITS DUE TO THES.

6-B05 11-9-92 0945

WO #: A2171212 LAB #: A2K120024-005 MATRIX: SLUDGE

ł

£inity

İ

i

Т

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

۰.

| | RESULT | REPORTING | | EXTRACTION - | QC |
|-----------------------|----------------|-----------|------------|----------------|--------|
| PARAMETER | <u>(mg/L)</u> | LIMIT | METHOD | ANALYSIS DATE | BATCH |
| 1,4-Dichlorobenzene | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| 2,4-Dinitrotoluene | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Hexachlorobenzene | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Hexachlorobutadiene | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Hexachloroethane | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Nitrobenzene | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Pentachlorophenol | ND | 6.0 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Pyridine | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| 2,4,5-Trichlorophenol | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| 2,4,6-Trichlorophenol | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |
| Cresols, Total | ND | 1.2 | SW846 8270 | 11/29-12/02/92 | 233400 |

| SURROGATE RECOVERY | | ACCEPTABLE LIMITS |
|----------------------|-----|-------------------|
| Nitrobenzene-d5 | DIL | (35 - 114) |
| 2-Fluorobiphenyl | DIL | (43 - 116) |
| Terphenyl-d14 | DIL | (33 - 141) |
| 2-Fluorophenol | DIL | (21 - 100) |
| Phenol-d5 | DIL | (10 - 94) |
| 2,4,6-Tribromophenol | DIL | (10 - 123) |

NOTE AS RECEIVED

ND (NONE DETECTED)

ELEVATED DETECTION LIMITS DUE TO TICS.

6-B05 11-9-92 0945

WO #: A2171110 LAB #: A2K120024-005 MATRIX: SLUDGE 1

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

.

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|--------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| Lindane | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Chlordane | ND | 0.0006 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Endrin | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Toxaphene | ND | 0.006 | SW846 8080 | 11/19-11/21/92 | 324011 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Dibutylchlorendate | 26 | (24 - 154) |
| Tetrachloro-m-xylene | 22* | (60 - 150) |

NOTE: AS RECEIVED

ND (NONE DETECTED)

UNKNOWN HYDROCARBON PEAKS. FLEVATED DETECTION LIMITS DUE TO MATRIX INTERFERENCE.

6-B05 11-9-92 0945

WO #: A2171109 LAB #: A2K120024-005 MATRIX: SLUDGE

÷

Т

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING
LIMIT | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------------|-------------------|--------------------|------------|------------------------------|--------------------|
| 2,4-D | ND | 0.5 | SW846 8150 | 11/17-11/20/92 | |
| 2,4,5-TP(Silvex) | ND | 0.1 | SW846 8150 | 11/17-11/20/92 | |

| SURROGATE RECOVERY | <u>م</u> | ACCEPTABLE LIMITS |
|--------------------|----------|-------------------|
| 2,4-DB | 93 | (48 - 131) |



6-B05 11-9-92 0945

| WO #: A2171 | | |
|----------------------|-----------------------|----------|
| LAB #: A2K120024-005 | DATE RECEIVED: | 11/12/92 |
| MATRIX: SLUDGE | TCLP EXTRACTION DATE: | 11/17/92 |
| | FINAL PH:4.9 | |
| RCRA METALS - | | |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

ī.

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-------------|--------|-----------|------|------------|--------------------------------|--------------------|
| TCLP METALS | | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Arsenic | ND | 0.5 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Barium | ND | 1.0 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Cadmium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Chromium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Lead | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Selenium | ND | 0.3 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/17-11/18/92 | 322053 |

NOTE:

 \mathbf{N}

......

AS RECEIVED

į

Į

1

f

BAKER ENVIRONMENTAL INC

·6-ВО5 11-9-92 0945

WO #: A2171 LAB #: A2K120024-005 MATRIX: SLUDGE τ

DATE RECEIVED: 11/12/92

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
BATCH |
|------------------------|--------|-----------|----------|--------------|--------------------------------|-------------|
| Flash Point Closed Cup | >180 | | deg F | SW846 1010 | 12/03/92 | 233803 |
| pH Non-Aqueous | 4 | | อน | SW846 9045 | 11/12/92 | 317036 |
| Cyanide, Reactive | ND | 10 | mg/kg | SW846 7.3.3. | 11/13/92 | 321009 |
| Sulfide, Reactive | ND | 50 | mg/kg | SW846 7.3.4. | 11/13/92 | 321013 |
| Solids, Total (TS) | 78 | 0.5 | % | USEPA 160.3 | 11/13-11/16/92 | 318029 |

6-ВОБ 11-9-92 1000

WO #: A1972111 LAB #: A2K110027-004 MATRIX: SLUDGE Т

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATC</u> ł |
|----------------------|-------------------|-----------|------------|-------------------------------|---------------------|
| Benzene | ND | 5 | SW846 8240 | 11/16/92 | 32104: |
| Methyl ethyl ketone | ND | 50 | SW846 8240 | 11/16/92 | 32104: |
| Carbon tetrachloride | ND | 5 | SW846 8240 | 11/16/92 | 32104: |
| Chlorobenzene | ND | 5 | SW846 8240 | 11/16/92 | 32104: |
| Chloroform | ND | 5 | SW846 8240 | 11/16/92 | 32104: |
| 1,2-Dichloroethane | ND | 5 | SW846 8240 | 11/16/92 | 32104: |
| 1,1-Dichloroethene | ND | 5 | SW846 8240 | 11/16/92 | 321043 |
| Tetrachloroethene | ND | 5 | SW846 8240 | 11/16/92 | 321041 |
| Trichloroethene | ND | 5 | SW846 8240 | 11/16/92 | 321041 |
| Vinyl chloride | ND | 10 | SW846 8240 | 11/16/92 | 32104: |

| SURROGATE RECOVERY | <u>۴</u> | ACCEPTABLE LIMITS |
|-----------------------|----------|-------------------|
| l,2-Dichloroethane-d4 | 93 | (76 - 114) |
| Toluene-d8 | 101 | (88 - 110) |
| Bromofluorobenzene | 101 | (86 - 115) |

- NOTE: AS RECEIVED

ND - (NONE DETECTED) ELEVATED DETECTION LIMITS DUE TO TIC(S).

6-B06 11-9-92 1000

| WO #: A1972111 | DATE | RECEIVED: | 11/11/92 |
|------------------------|------|------------|----------|
| LAB #: A2K110027-004 | DATE | EXTRACTED: | 11/16/92 |
| MATRIX: SLUDGE | DATE | ANALYZED: | 11/16/92 |
| TCLP VOLATILE ORGANICS | | | |

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS with their estimated concentrations

| PARAMETER | RESULT | UNIT |
|--------------------|--------|------|
| Methylene chloride | 1,200 | mg/L |

Т

OTHER COMPOUNDS

| PARAMETER | RESULT | UNIT |
|-----------|--------|------|
| None | | |

1

6-B06 11-9-92 1000

WO #: A1972112 LAB #: A2K110027-004 MATRIX: SLUDGE 1

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| | RESULT | REPORTING | | EXTRACTION- | QC |
|-----------------------|---------|-----------|------------|----------------|--------|
| PARAMETER | (mg/L) | LIMIT | METHOD | ANALYSIS DATE | BATCH |
| l,4-Dichlorobenzene | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |
| 2,4-Dinitrotoluene | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Hexachlorobenzene | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Hexachlorobutadiene | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Hexachloroethane | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Nitrobenzene | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Pentachlorophenol | ND | 40 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Pyridine | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |
| 2,4,5-Trichlorophenol | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |
| 2,4,6-Trichlorophenol | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Cresols, Total | ND | 8 | SW846 8270 | 11/16-11/20/92 | 321028 |

| SURROGATE RECOVERY | <u>*</u> 5 | ACCEPTABLE LIMITS |
|----------------------|------------|-------------------|
| Nitrobenzene-d5 | DIL | (35 - 114) |
| 2-Fluorobiphenyl | DIL | (43 - 116) |
| Terphenyl-d14 | DIL | (33 - 141) |
| 2-Fluorophenol | DIL | (21 - 100) |
| Phenol-d5 | DIL | (10 - 94) |
| 2,4,6-Tribromophenol | DIL | (10 - 123) |

NOTE: AS RECEIVED

ND (NONE DETECTED)

ELAVATED DETECTION LIMITS DUE TO TICS.

6-B06 11-9-92 1000

WO #: A1972110 LAB #: A2K110027-004 MATRIX: SLUDGE

.

-

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

- - - - - - - - -

.

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

- - - - - TCLP PESTICIDES -

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|---------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| gamma-BHC (Lindane) | ND | 0.0001 | SW846 8080 | 11/16-11/24/92 | 321027 |
| Chlordane | ND | 0.0006 | SW846 8080 | 11/16-11/24/92 | 321027 |
| Endrin | ND | 0.0005 | SW846 8080 | 11/16-11/24/92 | 321027 |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/16-11/24/92 | 321027 |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/16-11/24/92 | 321027 |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/16-11/24/92 | 321027 |
| Toxaphene | ND | 0.006 | SW846 8080 | 11/16-11/24/92 | 321027 |

| SURROGATE RECOVERY | <u>e</u> e | ACCEPTABLE LIMITS |
|----------------------|------------|-------------------|
| Dibutylchlorendate | 24 | (24 - 154) |
| Tetrachloro-m-xylene | 24* | (60 - 150) |

NOTE AS RECEIVED

ିକୁ

ND (NONE DETECTED)

UNKNOWN HYDROCARBON PATTERN, ELEVATED DETECTION LIMITS DUE TO MATRIX INTERFERENCE.

6-806 11-9-92 1000

WO #: A1972109 LAB #: A2K110027-004 MATRIX: SLUDGE

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATC</u> |
|------------------|-------------------|-----------|------------|------------------------------|-------------------|
| 2,4-D | ND | 0.5 | SW846 8150 | 11/14-11/16/92 | 31900 |
| 2,4,5-TP(Silvex) | ND | 0.1 | SW846 8150 | 11/14-11/16/92 | 31900 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|--------------------|----------|-------------------|
| 2,4-DB | 48 | (48 - 131) |

NOTE: AS RECEIVED ND (NONE DETECTED)

- A



б-воб 11-9-92 1000

WO #: A1972 LAB #: A2K110027-004 MATRIX: SLUDGE

•

ī

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92 FINAL PH:5.0

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCI</u> |
|-------------|--------|-----------|------|------------|--------------------------------|--------------------|
| TCLP METALS | 5 | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/13-11/20/92 | 31803(|
| Arsenic | ND | 0.5 | mg/L | SW846 6010 | 11/13-11/20/92 | 31803(|
| Barium | ND | 1.0 | mg/L | SW846 6010 | 11/13-11/20/92 | 31803(|
| Cadmium | ND | 0.1 | mg/L | SW846 6010 | 11/13-11/20/92 | 31803(|
| Chromium | ND | 0.1 | mg/L | SW846 6010 | 11/13-11/20/92 | 318030 |
| Lead | ND | 0.1 | mg/L | SW846 6010 | 11/13-11/20/92 | 318030 |
| Selenium | ND | 0.3 | mg/L | SW846 6010 | 11/13-11/20/92 | 318030 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/13-11/18/92 | 318030 |
| | | | | | | |

NOTE:

1



i

BAKER ENVIRONMENTAL INC

6-B06 11-9-92 1000

WO #: A1972 LAB #: A2K110027-004 MATRIX: SLUDGE

DATE RECEIVED: 11/11/92

 REPORTING
 PREPARATION - QC

 PARAMETER
 RESULT
 LIMIT
 UNIT
 METHOD
 ANALYSIS DATE
 BATCH

 Flash Point Closed Cup
 >180
 deg F
 SW846 1010
 12/03/92
 2338032

 pH Non-Aqueous
 5
 su
 SW846 9045
 11/11/92
 316057

| Cyanide, Reactive | ND | 10 | mg/kg | SW846 7.3.3. | 11/13/92 | 321009 |
|--------------------|-----|-----|-------|--------------|----------------|--------|
| Sulfide, Reactive | ND | 50 | mg/kg | SW846 7.3.4. | 11/13/92 | 321013 |
| Solids, Total (TS) | 1.7 | 0.5 | 5 | USEPA 160.3 | 11/13-11/16/92 | 318029 |

6-B07 11-9-92 1400

WO #: A2173111 LAB #: A2K120024-006 MATRIX: SLUDGE

Procedure Method 1311 (55 FR 26986)

.

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching

| | PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|---|----------------------|-------------------|-----------|------------|------------------------------|--------------------|
| | Benzene | ND | 0.01 | SW846 8240 | 11/18/92 | 323033 |
| | Methyl ethyl ketone | ND | 0.1 | SW846 8240 | 11/18/92 | 323033 |
| | Carbon tetrachloride | ND | 0.01 | SW846 8240 | 11/18/92 | 323033 |
| | Chlorobenzene | ND | 0.01 | SW846 8240 | 11/18/92 | 323033 |
| | Chloroform | ND | 0.01 | SW846 8240 | 11/18/92 | 323033 |
| | 1,2-Dichloroethane | ND | 0.01 | SW846 8240 | 11/18/92 | 323033 |
| | 1,1-Dichloroethylene | ND | 0.01 | SW846 8240 | 11/18/92 | 323033 |
| | Tetrachlorethylene | ND | 0.01 | SW846 8240 | 11/18/92 | 323033 |
| | Trichloroethylene | ND | 0.01 | SW846 8240 | 11/18/92 | 323033 |
| 1 | Vinyl chloride | ND | 0.02 | SW846 8240 | 11/18/92 | 323033 |
| | | | | | | |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS | | | |
|-----------------------|----------|-------------------|--|--|--|
| l,2-Dichloroethane-d4 | 88 | (76 - 114) | | | |
| Toluene-d8 | 99 | (88 - 110) | | | |
| Bromofluorobenzene | 99 | (86 - 115) | | | |

NOTE: AS RECEIVED

6-B07 11-9-92 1400

WO #: A2173112 LAB #: A2K120024-006 MATRIX: SLUDGE

÷

1

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Cresols, Total | 0.06 | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 94 | (35 - 114) |
| 2-Fluorobiphenyl | 72 | (43 - 116) |
| Terphenyl-d14 | 78 | (33 - 141) |
| 2-Fluorophenol | 74 | (21 - 100) |
| Phenol-d5 | 60 | (10 - 94) |
| 2,4,6-Tribromophenol | 80 | (10 - 123) |

NOTE: AS RECEIVED

1

6-B07 11-9-92 1400

WO #: A2173212 LAB #: A2K120024-006 MATRIX: SLUDGE

1

Т

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mo/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400- |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400- |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334000 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400- |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400- |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400- |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/29-12/02/92 | 233400- |
| Pyridine | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400- |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 23340č- |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 233400- |
| Cresols, Total | 0.05 | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |

| SURROGATE RECOVERY | <u>+</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 93 | (35 - 114) |
| 2-Fluorobiphenyl | 81 | (43 - 116) |
| Terphenyl-d14 | 105 | (33 - 141) |
| 2-Fluorophenol | 53 | (21 - 100) |
| Phenol-d5 | 66 | (10 - 94) |
| 2,4,6-Tribromophenol | 115 | (10 - 123) |

NOTE: AS RECEIVED

ية. ج.

6-B07 11-9-92 1400

WO #: A2173110 LAB #: A2K120024-006 MATRIX: SLUDGE

Т

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|--------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| Lindane | ND | 0.0006 | SW846 8080 | 11/19-11/24/92 | 324011 |
| Chlordane | ND | 0.003 | SW846 8080 | 11/19-11/24/92 | 324011 |
| Endrin | ND | 0.001 | SW846 8080 | 11/19-11/24/92 | 324011 |
| Heptachlor | ND | 0.0006 | SW846 8080 | 11/19-11/24/92 | 324011 |
| Heptachlor epoxide | ND | 0.0006 | SW846 8080 | 11/19-11/24/92 | 324011 |
| Methoxychlor | ND | 0.006 | SW846 8080 | 11/19-11/24/92 | 324011 |
| Toxaphene | ND | 0.03 | SW846 8080 | 11/19-11/24/92 | 324011 |

| SURROGATE RECOVERY | <u> 0</u> | ACCEPTABLE LIMITS |
|----------------------|-----------|-------------------|
| Dibutylchlorendate | 81 | (24 - 154) |
| Tetrachloro-m-xylene | 64 | (60 - 150) |

NOTE: AS RECEIVED

ND (NONE DETECTED)

FLEVATED DETECTION LIMITS DUE TO MATRIX INTERFERENCE.

1

6-B07 11-9-92 1400

WO #: A2173109 LAB #: A2K120024-006 MATRIX: SLUDGE T.

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|---------------------------|------------------|------------|--------|----------------------------------|--------------------|
| 2,4-D
2,4,5-TP(Silvex) | ND
ND | 0.5
0.1 | | 11/17-11/20/92
11/17-11/20/92 | |



SURROGATE RECOVERY3ACCEPTABLE LIMITS2,4-DBMI(48 - 131)

NOTE: AS RECEIVED

. . .

1

6-В07 11-9-92 1400

WO #: A2173 LAB #: A2K120024-006 MATRIX: SLUDGE

I.

| #: A2K120024-006
RIX: SLUDGE | DATE RECEIVED: 1
TCLP EXTRACTION DATE: 1 | 1/12/92 |
|---------------------------------|---|---------|
| RCRA METALS - | FINAL PH:5.0 | |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-------------|--------|-----------|------|------------|--------------------------------|--------------------|
| TCLP METALS | | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Arsenic | ND | 0.5 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Darium | 1.5 | 1.0 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Cadmium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Chromium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Lead | 0.2 | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Selenium | ND | 0.3 | mg/L | SW846 6010 | 11/17-12/08/92 | 322053 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/17-11/18/92 | 322053 |
| | | | | | | |

NOTE:

i į

_ `}

AS RECEIVED



.

6-807 11-9-92 1400

WO #: A2173 LAB #: A2K120024-006 MATRIX: SLUDGE 1

DATE RECEIVED: 11/12/92

|
INORGANIC ANALYTICAL | REPORT | | |
|--------------------------|--------|---------------|----|
| REPORTING | | PREPARATION - | QC |

| PARAMETER | RESULT | LIMIT | UNIT | METHOD | ANALYSIS DATE | BATCH |
|------------------------|--------|-------|-------|--------------|----------------|---------|
| Flash Point Closed Cup | >180 | 10 | deg P | SW846 1010 | 12/03/92 | 2338033 |
| pH Non-Aqueous | 4 | | su | SW846 9045 | 11/12/92 | 317036 |
| Cyanide, Reactive | ND | | mg/kg | SW846 7.3.3. | 11/16/92 | 321034 |
| Sulfide, Reactive | ND | 50 | mg∕kg | SW846 7.3.4. | 11/16/92 | 321035 |
| Solids, Total (TS) | 9 9 | 0.5 | ზ | USEPA 160.3 | 11/13-11/16/92 | 318029 |

۰,

6-B08 11-9-92 1430

WO #: A1968111 LAB #: A2K110027-001 MATRIX: SLUDGE ī

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
BATCH |
|----------------------|-------------------|-----------|------------|-------------------------------|-------------|
| Benzene | ND | 2.5 | SW846 8240 | 11/16/92 | 321041 |
| Methyl ethyl ketone | 59 | 25 | SW846 8240 | 11/16/92 | 321041 |
| Carbon tetrachloride | ND | 2.5 | SW846 8240 | 11/16/92 | 321041 |
| Chlorcbenzene | ND | 2.5 | SW846 8240 | 11/16/92 | 321041 |
| Chloroform | ND | 2.5 | SW846 8240 | 11/16/92 | 321041 |
| 1,2-Dichloroethane | ND | 2.5 | SW846 8240 | 11/16/92 | 321041 |
| l,l-Dichloroethene | ND | 2.5 | SW846 8240 | 11/16/92 | 321041 |
| Tetrachloroethene | ND | 2.5 | SW846 8240 | 11/16/92 | 321041 |
| Trichloroethene | ND | 2.5 | SW846 8240 | 11/16/92 | 321041 |
| Vinyl chloride | ND | 5 | SW846 8240 | 11/16/92 | 321041 |

| SURROGATE RECOVERY | <u>•r</u> | ACCEPTABLE LIMITS |
|-----------------------|-----------|-------------------|
| l,2-Dichloroethane-d4 | 95 | (76 - 114) |
| Toluene-d8 | 99 | (88 - 110) |
| Bromofluorobenzene | 102 | (86 - 115) |

NOTE: AS RECEIVED
 ND - (NONE DEFECTED)

6-B08 11-9-92 1430

WO #: A1968112 LAB #: A2K110027-001 MATRIX: SLUDGE

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| | RESULT | REPORTING | | EXTRACTION- | QC |
|-----------------------|---------|-----------|------------|----------------|--------|
| PARAMETER | (mg/L) | LIMIT | METHOD | ANALYSIS DATE | BATCH |
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Nitrobenzene | DИ | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |
| 2,4,6-Trichlorophenol | D | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |
| Cresols, Total | DИ | 0.04 | SW846 8270 | 11/16-11/20/92 | 321028 |

| SURROGATE RECOVERY | <u>•</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 79 | (35 - 114) |
| 2-Fluorobiphenyl | 68 | (43 - 116) |
| Terphenyl-d14 | 102 | (33 - 141) |
| 2-Fluorophenol | 76 | (21 - 100) |
| Phenol-d5 | 67 | (10 - 94) |
| 2,4,6-Tribromophenol | 86 | (10 - 123) |

6-ВО8 11-9-92 1430

| WO #: A1968110
LAB #: A2K110027-001
MATRIX: SLUDGE | DATE RECEIVED: 11/11/92
TCLP EXTRACTION DATE: 11/13/92 |
|--|---|
| TCLP PESTICIDES | ,, |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| | RESULT | REPORTING | | EXTRACTION - | QC |
|---------------------|----------------|-----------|------------|----------------|--------|
| PARAMETER | <u>(mg/L)</u> | LIMIT | METHOD | ANALYSIS DATE | BATCH |
| gamma-BHC (Lindane) | ND | 0.0001 | SW846 8080 | 11/16-11/20/92 | 321027 |
| Chlordane | ND | 0.0005 | SW846 8080 | 11/16-11/20/92 | 321027 |
| Endrin | ND | 0.0005 | SW846 8080 | 11/16-11/20/92 | 321027 |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/16-11/20/92 | 321027 |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/16-11/20/92 | 321027 |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/16-11/20/92 | 321027 |
| Toxaphene | ND | 0.005 | SW846 8080 | 11/16-11/20/92 | 321027 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE_LIMITS |
|----------------------|----------|-------------------|
| Dibutylchlorendate | 63 | (24 - 154) |
| Tetrachloro-m-xylene | 64 | (60 - 150) |



6-B08 11-9-92 1430

WO #: A1968109 LAB #: A2K110027-001 MATRIX: SLUDGE

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| 2,4-D | ND | 0.5 | SW846 8150 | 11/14-11/16/92 | 319002 |
| 2,4,5-TP(Silvex) | ND | 0.1 | SW846 8150 | 11/14-11/16/92 | 319002 |

<u>*</u>

ACCEPTABLE LIMITS

2,4-DB

80

(48 - 131)



6-B08 11-9-92 1430

| WO #: A1968 | | |
|----------------------|-----------------------|----------|
| LAB #: A2K110027-001 | DATE RECEIVED: | 11/11/92 |
| MATRIX: SLUDGE | TCLP EXTRACTION DATE: | 11/13/92 |
| | FINAL PH:5.0 | |
| RCRA MBTALS - | | |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

١.

L

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------|--------|-----------|------|------------|--------------------------------|--------------------|
| TCLP METAI | LS | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/13-11/19/92 | 318030 |
| Arsenic | ND | 0.5 | mg/L | SW846 6010 | 11/13-11/19/92 | 318030 |
| Barium | ND | 1.0 | mg/L | SW846 6010 | 11/13-11/19/92 | 318030 |
| Cadmium | ND | 0.1 | mg/L | SW846 6010 | 11/13-11/19/92 | 318030 |
| Chromium | ND | 0.1 | mg/L | SW846 6010 | 11/13-11/19/92 | 318030 |
| Lead | ND | 0.1 | mg/L | SW846 6010 | 11/13-11/19/92 | 318030 |
| Selenium | ND | 0.3 | mg/L | SW846 6010 | 11/13-11/19/92 | 318030 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/13-11/18/92 | 318030 |

۰.

NOTE



•

6-808 11-9-92 1430

WO #: A1968 LAB #: A2K110027-001 MATRIX: SLUDGE Т

DATE RECEIVED: 11/11/92

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------------------|--------|-----------|-------|--------------|--------------------------------|--------------------|
| Flash Point Closed Cup | DNF | 10 | deg P | SW846 1010 | 12/03/92 | 2338033 |
| pH Non-Aqueous | 5 | | su | SW846 9045 | 11/11/92 | 316057 |
| Cyanide, Reactive | ND | | mg/kg | SW846 7.3.3. | 11/13/92 | 321009 |
| Sulfide, Reactive | ND | 50 | mg∕kg | SW846 7.3.4. | 11/13/92 | 321013 |
| Solids, Total (TS) | 80 | 0.5 | % | USEPA 160.3 | 11/13-11/16/92 | 318029 |

NOTE: AS RECEIVED ND (NONE DETECTED) DOES NOT FLASH, BUNRS AT 140 DEG F.



6-B09 11-9-92 1500

WO #: A1970111 LAB #: A2K110027-002 MATRIX: SLUDGE Т

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| | RESULT | REPORTING | | EXTRACTION- | QC |
|----------------------|--------|-----------|------------|---------------|--------|
| PARAMETER | (mq/L) | LIMIT | METHOD | ANALYSIS DATE | BATCH |
| | | | | | |
| Benzene | ND | 0.005 | SW846 8240 | 11/16/92 | 321041 |
| Methyl ethyl ketone | ND | 0.05 | SW846 8240 | 11/16/92 | 321041 |
| Carbon tetrachloride | ND | 0.005 | SW846 8240 | 11/16/92 | 321041 |
| Chlorobenzene | ND | 0.005 | SW846 8240 | 11/16/92 · | 321041 |
| Chloroform | ND | 0.005 | SW846 8240 | 11/16/92 | 321041 |
| 1,2-Dichloroethane | ND | 0.005 | SW846 8240 | 11/16/92 | 321041 |
| 1,1-Dichloroethene | ND | 0.005 | SW846 8240 | 11/16/92 | 321041 |
| Tetrachloroethene | ND | 0.005 | SW846 8240 | 11/16/92 | 321041 |
| Trichloroethene | ND | 0.005 | SW846 8240 | 11/16/92 | 321041 |
| Vinyl chloride | ND | 0.01 | SW846 8240 | 11/16/92 | 321041 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|-----------------------|----------|-------------------|
| l,2-Dichloroethane-d4 | 102 | (76 - 114) |
| Toluene-d8 | 100 | (88 - 110) |
| Bromofluorobenzene | 100 | (86 - 115) |



6-B09 11-9-92 1500

WO #: A1970112 LAB #: A2K110027-002 MATRIX: SLUDGE

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|------------------------------|--------------------|
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/16-11/19/92 | 321030 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |
| 2,4,6-Trichlorophenol | CM | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 11/16-11/19/92 | 321030 |

| SURROGATE RECOVERY | 5 | ACCEPTABLE LIMITS |
|----------------------|----|-------------------|
| Nitrobenzene-d5 | 75 | (35 - 114) |
| 2-Fluorobiphenyl | 68 | (43 - 116) |
| Terphenyl-d14 | 73 | (33 - 141) |
| 2-Fluorophenol | 78 | (21 - 100) |
| Phenol-d5 | 66 | (10 - 94) |
| 2,4,6-Tribromophenol | 49 | (10 - 123) |

NOTE: AS RECEIVED



6-B09 11-9-92 1500

WO #: A1970110 LAB #: A2K110027-002 MATRIX: SLUDGE Т

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|----------------------------------|-------------------|------------------|--------------------------|----------------------------------|--------------------|
| gamma-BHC (Lindane)
Chlordane | ND
ND | 0.0001
0.0005 | SW846 8080
SW846 8080 | 11/16-11/18/92
11/16-11/18/92 | 321029
321029 |
| Endrin | ND | 0.0005 | SW846 8080 | 11/16-11/18/92 | 321029 |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/16-11/18/92 | 321029 |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/16-11/18/92 | 321029 |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/16-11/18/92 | 321029 |
| Toxaphene | ND | 0.005 | SW846 8080 | 11/16-11/18/92 | 321029 |

| SURROGATE RECOVERY | • <u></u> | ACCEPTABLE LIMITS |
|----------------------|-----------|-------------------|
| Dibutylchlorendate | 63 | (24 - 154) |
| Tetrachloro-m-xylene | 68 | (60 - 150) |

6-B09 11-9-92 1500

WO #: A1970109 LAB #: A2K110027-002 MATRIX: SLUDGE

`

T

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------------|-------------------|-----------|------------|------------------------------|--------------------|
| 2,4-D | ND | 0.5 | SW846 8150 | 11/14-11/18/92 | |
| 2,4,5-TP(Silvex) | ND | 0.1 | SW846 8150 | 11/14-11/18/92 | |

| SUR | ROG | ATE | REC | OVERY |
|-----|-----|-----|-----|-------|
| | | | | |

2,4-DB

<u>•</u>

ACCEPTABLE LIMITS

93

(48 - 131)

6-B09 11-9-92 1500

| WO #: A1970 | |
|----------------------|--------------------------------|
| LAB #: A2K110027-002 | DATE RECEIVED: 11/11/92 |
| MATRIX: SLUDGE | TCLP EXTRACTION DATE: 11/13/92 |
| | FINAL PH:10.0 |
| RCRA METALS - | |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Т

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------|--------|-----------|------|------------|--------------------------------|--------------------|
| TCLP METAI | LS | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Arsenic | ND | 0.5 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Barium | ND | 1.0 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Cadmium | ND | 0.1 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Chromium | ND | 0.1 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Lead | ND | 0.1 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Selenium | ND | 0.3 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/23-12/01/92 | 328046 |
| | | | | | | |

NOTE:



•

6-B09 11-9-92 1500

WO #: A1970 LAB #: A2K110027-002 MATRIX: SLUDGE ι

DATE RECEIVED: 11/11/92

.

| · · · · · · · · · · · · · · | INORGANIC AN. | ALYTICAL REPORT | | |
|-----------------------------|---------------------------|------------------|--------------------------------|-------------|
| PARAMETER | REPORTING
RESULT LIMIT | - | PREPARATION -
ANALYSIS DATE | QC
BATCH |
| Flash Point Closed Cup | >180 | deg F SW846 1010 | 12/03/92 | 2338033 |

| pH Non-Aqueous
Cyanide, Reactive | 13
ND | 10 | su
mg/kg | SW846 9045
SW846 7.3.3. | 12/03/92
11/11/92
11/13/92 | 316057
321009 |
|-------------------------------------|----------|-----|-------------|----------------------------|----------------------------------|------------------|
| Sulfide, Reactive | ND | 50 | mg∕kg | SW846 7.3.4. | 11/13/92 | 321013 |
| Solids, Total (TS) | 74 | 0.5 | % | USEPA 160.3 | 11/13-11/16/92 | 318029 |

۰.

6-B10 11-9-92 1530

WO #: A1971111 LAB #: A2K110027-003 MATRIX: SLUDGE I

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|----------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| Benzene | ND | 0.62 | SW846 8240 | 11/16/92 | 321041 |
| Methyl ethyl ketone | ND | 6.2 | SW846 8240 | 11/16/92 | 321041 |
| Carbon tetrachloride | ND | 0.62 | SW846 8240 | 11/16/92 | 321041 |
| Chlorobenzene | ND | 0.62 | SW846 8240 | 11/16/92 | 321041 |
| Chloroform | 15 | 0.62 | SW845 8240 | 11/16/92 | 321041 |
| 1,2-Dichloroethane | ND | 0.62 | SW846 8240 | 11/16/92 | 321041 |
| 1,1-Dichloroethene | ND | 0.62 | SW846 8240 | 11/16/92 | 321041 |
| Tetrachloroethene | ND | 0.62 | SW846 8240 | 11/16/92 | 321041 |
| Trichloroethene | ND | 0.62 | SW846 8240 | 11/16/92 | 321041 |
| Vinyl chloride | ND | 1.2 | SW846 8240 | 11/16/92 | 321041 |

| SURROGATE RECOVERY | वि | ACCEPTABLE LIMITS |
|-----------------------|-----|-------------------|
| l,2-Dichloroethane-d4 | 89 | (76 - 114) |
| Toluene-d8 | 102 | (88 - 110) |
| Bromofluorobenzene | 102 | (86 - 115) |



6-B10 11-9-92 1530

WO #: A1971212 LAB #: A2K110027-003 MATRIX: SLUDGE ١

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L) | REPORTING | METH | OD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|--------------------|------|-------------------------------|--------------------|
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 [.] | 8270 | 11/20-11/24/92 | 325012 |
| Hexachlorobenzene | ND | 0.04 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| Hexachlorobutadiene | ND | 0.04 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| Hexachloroethane | ND | 0.04 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| Nitrobenzene | ND | 0.04 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| Pentachlorophenol | ND | 0.2 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| Pyridine | ND . | 0.04 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| Cresols, Total | 0.04 | 0.04 | SW846 | 8270 | 11/20-11/24/92 | 325012 |
| | | | | | | |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 83 | (35 - 114) |
| 2-Fluorobiphenyl | 61 | (43 - 116) |
| Terphenyl-d14 | 74 | (33 - 141) |
| 2-Fluorophenol | 68 | (21 - 100) |
| Phenol-d5 | 54 | (10 - 94) |
| 2,4,6-Tribromophenol | 72 | (10 - 123) |

NOTE: AS RECEIVED

6-B10 11-9-92 1530

WO #: A1971110 LAB #: A2K110027-003 MATRIX: SLUDGE ١

DATE RECEIVED: 11/11/92 TCLP EXTRACTION DATE: 11/13/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|---------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| gamma-BHC (Lindane) | ND | 0.0001 | SW846 8080 | 11/16-11/20/92 | 321029 |
| Chlordane | ND | 0.0005 | SW846 8080 | 11/16-11/20/92 | 321029 |
| Endrin | ND | 0.0005 | SW846 8080 | 11/16-11/20/92 | 321029 |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/16-11/20/92 | 321029 |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/16-11/20/92 | 321029 |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/16-11/20/92 | 321029 |
| Toxaphene | ND | 0.005 | SW846 8080 | 11/16-11/20/92 | 321029 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Dibutylchlorendate | 46 | (24 - 154) |
| Tetrachloro-m-xylene | 27* | (60 - 150) |



6-B10 11-9-92 1530

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching

Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|---------------------------|-------------------|------------|--------|----------------------------------|--------------------|
| 2,4-D
2,4,5-TP(Silvex) | ND
ND | 0.5
0.1 | | 11/14-11/18/92
11/14-11/18/92 | |

| SURROGATE | RECOVERY |
|-----------|----------|
| | |

<u>*</u>

ACCEPTABLE LIMITS

2,4-DB

24*

(48 - 131)

NOTE: AS RECEIVED

ND (NONE DETECTED)

- SURROGATE(S) OUTSIDE ACCEPTANCE CRITERIA DUE TO DEMONSTRATED MATRIX EFFECT.



6-B10 11-9-92 1530

 WO #: A1971
 DATE RECEIVED: 11/11/92

 LAB #: A2K110027-003
 DATE RECEIVED: 11/11/92

 MATRIX: SLUDGE
 TCLP EXTRACTION DATE: 11/13/92

 FINAL PH:11.5

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

•

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------|--------|-----------|------|------------|--------------------------------|--------------------|
| TCLP METAL | s | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Arsenic | ND | 0.5 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Barium | ND | 1.0 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Cadmium | ND | 0.1 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Chromium | 0.2 | 0.1 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Lead | ND | 0.1 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Selenium | ND | 0.3 | mg/L | SW846 6010 | 11/13-12/03/92 | 318028 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/13-11/21/92 | 318028 |

NOTE:

AS RECEIVED

ND (NONE DETECTED)



.

6-B10 11-9-92 1530

WO #: A1971 LAB #: A2K110027-003 MATRIX: SLUDGE Т

DATE RECEIVED: 11/11/92

REPORTING PREPARATION - OC

| PARAMETER | RESULT | LIMIT | UNIT | METHOD | ANALYSIS DATE | BATCH |
|------------------------|--------|-------|-------|--------------|----------------|---------|
| Flash Point Closed Cup | >180 | 10 | deg F | SW846 1010 | 12/03/92 | 2338033 |
| pH Non-Aqueous | 13 | | su | SW846 9045 | 11/11/92 | 316057 |
| Cyanide, Reactive | ND | | mg/kg | SW846 7.3.3. | 11/16/92 | 321034 |
| Sulfide, Reactive | ND | 50 | mg∕kg | SW846 7.3.4. | 11/13/92 | 321013 |
| Solids, Total (TS) | 9 9 | 0.5 | % | USEPA 160.3 | 11/13-11/16/92 | 318029 |

NOTE: AS RECEIVED ND (NONE DETECTED)

6-B11 11-9-92 1600

WO #: A2175111 LAB #: A2K120024-007 MATRIX: SLUDGE

| | DATE RECEIVED: | 11/12/92 |
|------|------------------|----------|
| TCLP | EXTRACTION DATE: | 11/17/92 |

T.

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|----------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| Benzene | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| Methyl ethyl ketone | ND | 0.05 | SW846 8240 | 11/18/92 | 323033 |
| Carbon tetrachloride | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| Chlorobenzene | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| Chloroform | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| 1,2-Dichlcroethane | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| 1,1-Dichloroethylene | ND | 0.005 | SW845 8240 | 11/18/92 | 323033 |
| Tetrachlorethylene | ND | 0.005 | SW845 8240 | 11/18/92 | 323033 |
| Trichlcroethylene | ND | 0.005 | SW846 8240 | 11/18/92 | 323033 |
| Vinyl chloride | ND | 0.01 | SW845 8240 | 11/18/92 | 323033 |

| SURROGATE RECOVERY | -
-
- | ACCEPTABLE LIMITS |
|----------------------------------|-------------|--------------------------|
| 1,2-Dichloroethane-d4 | 91 | (76 - 114) |
| Toluene-d8
Bromofluorobenzene | 100
101 | (88 - 110)
(86 - 115) |
| | | |

NOTE: AS RECEIVED ND (NONE DETECTED)



6-B11 11-9-92 1600

WO #: A2175114 LAB #: A2K120024-007 MATRIX: SLUDGE

| | DATE RE | CEIVED: | 11/12/92 |
|------|------------|---------|----------|
| TCLP | EXTRACTION | DATE: | 11/17/92 |

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|-------------------------------|--------------------|
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachlorobutadiene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 11/19-11/24/92 | 324013 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 78 | (35 - 114) |
| 2-Fluorobiphenyl | 62 | (43 - 116) |
| Terphenyl-d14 | 90 | (33 - 141) |
| 2-Fluorophenol | 75 | (21 - 100) |
| Phenol-d5 | 58 | (10 - 94) |
| 2,4,6-Tribromophenol | 70 | (10 - 123) |

NOTE: AS RECEIVED

i

ND (NONE DETECTED)



1

BAKER ENVIRONMENTAL INC

6-B11 11-9-92 1600

WO #: A2175214 LAB #: A2K120024-007 MATRIX: SLUDGE

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/L_) | REPORTING | METHOD | EXTRACTION-
ANALYSIS DATE | QC
<u>BATCH</u> |
|-----------------------|-------------------|-----------|------------|------------------------------|--------------------|
| 1,4-Dichlorobenzene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| 2,4-Dinitrotoluene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| Hexachlorobenzene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| Hexachlorobutadiene | DИ | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| Hexachloroethane | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| Nitrobenzene | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| Pentachlorophenol | ND | 0.2 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| Pyridine | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| 2,4,5-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| 2,4,6-Trichlorophenol | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |
| Cresols, Total | ND | 0.04 | SW846 8270 | 11/29-12/02/92 | 2334004 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Nitrobenzene-d5 | 104 | (35 - 114) |
| 2-Fluorobiphenyl | 77 | (43 - 116) |
| Terphenyl-d14 | 116 | (33 - 141) |
| 2-Fluorophenol | 99 | (21 - 100) |
| Phenol-d5 | 65 | (10 - 94) |
| 2,4,6-Tribromophenol | 93 | (10 - 123) |

NOTE: AS RECEIVED

ND (NONE DETECTED)



6-B11 11-9-92 1600

WO #: A2175110 LAB #: A2K120024-007 MATRIX: SLUDGE 1

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mq/L_) | REPORTING | METHOD | EXTRACTION -
ANALYSIS_DATE | QC
<u>BATCH</u> |
|--------------------|-------------------|-----------|--------------------------|-------------------------------|--------------------|
| Lindane | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Chlordane | ND | 0.0005 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Endrin | ND | 0.0005 | SW84 ¹ 6 8080 | 11/19-11/21/92 | 324011 |
| Heptachlor | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Heptachlor epoxide | ND | 0.0001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Methoxychlor | ND | 0.001 | SW846 8080 | 11/19-11/21/92 | 324011 |
| Toxaphene | ND | 0.005 | SW846 8080 | 11/19-11/21/92 | 324011 |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|----------------------|----------|-------------------|
| Dibutylchlorendate | 61 | (24 - 154) |
| Tetrachloro-m-xylene | 64 | (60 - 150) |

NOTE: AS RECEIVED ND (NONE DETECTED)



6-B11 11-9-92 1600

WO #: A2175109 LAB #: A2K120024-007 MATRIX: SLUDGE

DATE RECEIVED: 11/12/92 TCLP EXTRACTION DATE: 11/17/92

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

| PARAMETER | RESULT
(mg/l) | REPORTING | METHOD | EXTRACTION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|---------------------------|-------------------|------------|--------|----------------------------------|--------------------|
| 2,4-D
2,4,5-TP(Silvex) | ND
ND | 0.5
0.1 | | 11/17-11/20/92
11/17-11/20/92 | |

| SURROGATE RECOVERY | <u>*</u> | ACCEPTABLE LIMITS |
|--------------------|----------|-------------------|
| 2 , 4 - DB | 83 | (48 - 131) |

NOTE: AS RECEIVED ND (NONE DETECTED)



6-B11 11-9-92 1600

WO #: A2175 LAB #: A2K120024-007 DATE RECEIVED: 11/12/92 MATRIX: SLUDGE TCLP EXTRACTION DATE: 11/17/92 FINAL PH:3.8

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

- - - - - - - - - - - - RCRA METALS - - -

Т

| PARAMETER | RESULT | REPORTING | UNIT | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
|------------|--------|-----------|--------|------------|--------------------------------|--------------------|
| TCLP METAL | s | | | | | |
| Silver | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Arsenic | ND . | 0.5 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Barium | ND | 1.0 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Cadmium | ND | 0.1 | mg/L . | SW846 6010 | 11/17-12/04/92 | 322053 |
| Chromium | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Lead | ND | 0.1 | mg/L | SW846 6010 | 11/17-12/04/92 | 322053 |
| Selenium | ND | 0.3 | mg/L | SW846 6010 | 11/17-12/08/92 | 322053 |
| Mercury | ND | 0.02 | mg/L | SW846 7471 | 11/17-11/18/92 | 322053 |

NOTE:

AS RECEIVED ND (NONE DETECTED)



6-B11 11-9-92 1600

WO #: A2175 LAB #: A2K120024-007 MATRIX: SLUDGE 1

DATE RECEIVED: 11/12/92

| INORGANIC ANALYTICAL REPORT | | | | | | |
|-----------------------------|--------|--------------------|-------|--------------|--------------------------------|--------------------|
| PARAMETER | RESULT | REPORTING
LIMIT | TINU | METHOD | PREPARATION -
ANALYSIS DATE | QC
<u>BATCH</u> |
| Flash Point Closed Cup | >180 | 10 | deg F | SW846 1010 | 12/03/92 | 2338033 |
| pH Non-Aqueous | 3 | | su | SW846 9045 | 11/12/92 | 317036 |
| Cyanide, Reactive | ND | | mg/kg | SW846 7.3.3. | 11/16/92 | 321034 |
| Sulfide, Reactive | ND | 50 | mg∕kg | SW846 7.3.4. | 11/16/92 | 321035 |
| Solids, Total (TS) | 6 6 | 0.5 | % | USEPA 160.3 | 11/13-11/16/92 | 318029 |

NOTE: AS RECEIVED ND (NONE DETECTED) T.

WASTE SAMPLING REQUIREMENTS

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)

| EPA/540/P-91/008 | Compendium | of | ERT | Waste | Sampling |
|------------------|------------|------|-----|-------|----------|
| | Procedures | , 19 | 991 | | |

- 1.2 SUBMITTALS
 - a. Sample Log
 - b. Contractor Generated Waste Sample Analysis Results
 - c. Government Generated Waste Sample Analysis Results

1.3 DEFINITIONS

1.3.1 Contractor Generated Wastes

Contractor generated wastes shall include all materials which become contaminated during the course of contract work and wastes generated during the contract work.

1.3.2 Government Generated Wastes

Government generated wastes shall include all impacted soils and drum, storage tank, and container contents existing at Site 6 prior to the commencement of contract work.

1.3.3 Confirmation Sampling

Confirmation sampling shall include all sampling conducted in the open excavations during the post-removal stage to confirm the removal of all contaminated soil.

1.3.4 Waste Characterization Sampling

Waste characterization sampling shall include the collection of wastes generated during the removal action. This sampling is conducted to determine the hazardous nature of the wastes, and the subsequent handling and disposal of the wastes.

1.4 DESCRIPTION OF WORK

1.4.1 Excavation Sampling Requirements

Т

Collect environmental samples from each contractor generated waste stream to determine applicable transportation and disposal requirements.

1.4.2 Government Generated Waste

Collect environmental samples from each government generated waste stream to determine applicable transportation and disposal requirements. Environmental sample analyses will not be required for those composite samples collected during the previous investigations.

1.5 QUALITY ASSURANCE

1.5.1 Waste Sampling

Adhere to all sample acquisition, handling, custody documentation, decontamination, and quality assurance/quality control (QA/QC) requirements and procedures as required by federal, state and local regulations.

1.5.2 Analytical Laboratory

The Contractor will be solely responsible for the execution and accuracy of the waste stream analyses. All analytical standard methods shall meet, at a minimum, Naval Energy and Environmental Support Activity (NEESA) QA/QC Level D requirements for confirmation sampling and Level C requirements for waste characterization sampling and shall also be in accordance with federal, local and state regulations.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 GENERAL

Supply all personnel, equipment, and facilities to collect and analyze the environmental samples required to characterize the wastes.

3.1.1 Sample Acquisition

Sampling procedures shall be consistent with NEESA Guidelines.

3.1.1.1 Confirmation Samples

Confirmation samples shall be collected in the walls and the bottom of the open excavations. One sample from the bottom and the walls of the excavation shall be collected for every 25 linear feet of excavation.

Confirmation samples shall be analyzed for TCLP and RCRA hazardous characteristics using the following SW-846 Methods: TCLP Extraction - SW 1311, TCLP VOA - SW 8240, TCLP SVOA - SW 8270, TCLP Pesticides - SW 8080, TCLP Herbicides - SW 8150, TCLP Metals SW 6010, Ignitability - SW 1010, Corrosivity(pH) - SW 9045, Reactivity (Cyanide) - SW 9012, and Reactivity Time Critical Removal Action, Site 6

(Sulfide) - SW 9030.

3.1.1.2 Waste Characterization Samples

Т

Characterization samples shall be composite soil samples collected for environmental analysis. One sample shall be collected for every 100 cubic yards of soil excavated. Characterization samples shall also be conducted on unidentified materials encountered during this removal action.

Waste characterization samples shall be analyzed for TCL organics/TAL inorganics characteristics in accordance with EPA CLP/SOW.

3.1.2 Sample Handling

Sampling, sample handling, and sampling containers must be consistent with the chemicals expected, the matrix of the sample, and planned analytical procedures. Precleaned glass sample containers with teflon lids are required.

The Contractor shall describe in the Sampling and Analysis Plan strict chain-of-custody procedures to be used during collection, transport, and analysis of all samples.

3.1.3 Sampling Documentation

Maintain a sample log containing, at a minimum, the following information:

- a. Date and Time of Sampling
- b. Sample Locations
- c. Sample Matrix
- d. Sample Identification Number
- e. QA/QC Sample Identification
- f. Analyses to be Performed
- g. Type and Number of Sample Containers
- h. Signatures of Individuals Performing Sampling

-- End of Section --

Т

SECTION 01561

EROSION AND SEDIMENT CONTROL

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

FEDERAL SPECIFICATIONS (FS)

FS 0-F-241 (Rev. D) Fertilizers; Mixed, Commercial

U.S. ARMY CORPS OF ENGINEERS (CW) PUBLICATIONS

CW 02215

1977 Plastic Filter Fabric

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- ASTM D1682 1964 (Rev. 1985) Breaking Load and Elongation of Textile Fabrics
- ASTM D3786 1987 Hydraulic Bursting Strength of Knitted Bursting Strength Tester Method

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES

NCESCPDM 1988 North Carolina Erosion and Sediment Control Planning and Design Manual

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

NCDOT SSRS 1990 Standard Specifications for Roads and Structures

1.2 DESCRIPTION OF WORK

The work includes the provision of the temporary erosion control measures, to prevent the pollution of water and land within and adjacent to the project limits. Coordination of the installation of temporary erosion control devices shall ensure effective and continuous control of erosion and pollution. Provide and maintain erosion control measures in accordance with the North Carolina Department of Natural Resources Erosion and Sediment Control Manual.

1.3 SUBMITTALS

Submit the following in accordance with Attachment 7 of the Basic Contract.

Time Critical Removal Action, Site 6

05933801

1.3.1 SD-02, Manufacturer's Catalog Data

a. Silt Fence

1.3.2 SD-04, Drawings

a. Erosion Control Plan G

Submit, for approval, four copies of a Contractor furnished erosion and sediment control plan to the Navy's Technical Representative, a minimum of 14 days prior to start of construction. The plans shall not be a reproduction of the contract documents. The erosion and sediment control plan shall indicate minimum erosion control requirements and shall be site adapted and modified to suit the sequence of construction operations. As a minimum, the Contractor furnished erosion and sediment control plan shall indicate the following:

a. Clearing limits

- b. Type, size, and location of temporary erosion control features
- PART 2 PRODUCTS
- 2.1 SILT FENCE
- 2.1.1 Posts

4 inch by 4 inch wood posts, minimum 3 inch diameter wood, or 1.33 pound per linear foot steel posts. Posts shall be a minimum of 6 feet long.

2.1.2 Wire Fabric

ASTM A185, 6 by 6 minimum 12-1/2 gage.

2.1.3 Filter Fabric

A woven or nonwoven polypropylene, nylon, or polyester containing stabilizers and/or inhibitors to make the fabric resistant to deterioration from ultraviolet, and with the following properties:

| a. | Minimum grab tensile strength (ASTM D1682) | 100 pounds |
|----|--|------------|
| b. | Minimum grab elongation (ASTM D1682) | 25 percent |
| c. | Minimum mullen burst strength (ASTM D3786) | 210 psi |
| d. | E.O.S. (CW 02215) | 20-100 |

2.1.4 Standard Catalog Product

A Manufacturer's standard catalog product for a preassembled sediment fence may be provided in lieu of the indicated sediment fence except that the filter fabric shall be as specified, and the height of the structure shall be as indicated. Time Critical Removal Action, Site 6

2.2 GRAVEL FOR CONSTRUCTION ENTRANCE

NCDOT SSRS, Section 520.

2.3 GEOTEXTILE FOR CONSTRUCTION ENTRANCE

NCDOT SSRS, Section 1056.

2.4 WATER FOR DUST SUPRESSION

Water used for dust supression shall be free from oil, acids, alkalis, salts, or any other substance that is toxic or otherwise harmful to surrounding vegetation.

PART 3 EXECUTION

3.1 SILT FENCE

Install posts a maximum of 6 feet on center, and at an angle between 2 degrees and 20 degrees towards the potential silt load area. Do not attach filter fabric to existing trees or structures. Secure filter fabric to the post and wire fabric using staples, tie wire, or hog rings. Imbed the filter fabric into the ground as indicated. Splice filter fabric at support pole using a 6 inch overlap and securely seal. Overlap or reinforce the top edge of the filter fabric a minimum of 1 inch.

The silt fence shall be installed, at a minimum, at the locations shown on the construction drawings.

3.2 GRAVEL CONSTRUCTION ENTRANCE

Place geotextile on top of graded existing soil where construction entrances and access roads are to be constructed. Place gravel on top of geotextile to a minimum of 6 inches thick, at points of vehicular ingress and egress as indicated.

3.3 DUST SUPPRESSOR

Apply water as a dust suppressor on unsurfaced travel ways. Repeat water applications as necessary to control dust emissions.

3.4 MAINTENANCE AND INSPECTION

Inspect erosion control devices after each rainfall and daily during prolonged rainfall. Remove sediment deposits after each rainfall or when sediment reaches approximately one-half the barrier height. Immediately repair damaged erosion control devices and damaged areas around and underneath the devices. Maintain erosion control devices to assure continued performance of their intended function. Modify the Contractor furnished erosion control plan as required to control problem areas notices after each inspection.

3.5 CLEAN UP

At the completion of the job, or when directed or approved by the Navy's Technical Representative, erosion control devices shall be removed. Erosion control devices and areas immediately adjacent to the device shall be filled (where applicable), shaped to drain and to blend into the surrounding contours. Erosion control devices may remain in place when approved by the Navy's Technical Representative.

-- End of Section --

Т

SECTION 02220

EXCAVATION, FILLING, AND BACKFILLING

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only. All applicable references of other sections of this specification shall also apply to this section.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

| ASTM C | 136 | 1984 (Rev. A) Sieve Analysis of Fine and
Coarse Aggregates |
|--------|-----------------------|--|
| ASTM D | 1140 | 1954 (R 1990) Amount of Material in Soils
Finer Than the No. 200 (75-Micrometer) Sieve |
| ASTM D | 1557 | 1978 (R 1990) Moisture-Density Relations
of Soils and Soil-Aggregate Mixtures Using
10-1b (4.54-kg) Rammer and 18-in. (457-mm)
Drop |
| ASTM D | 2487 | 1990 Classification of Soils for
Engineering Purposes |
| ASTM D | 2922 | 1981 (R 1990) Density of Soil and
Soil-Aggregate in Place by Nuclear Methods
(Shallow Depth) |
| ASTM D | 3017 | 1988 Water Content of Soil and Rock in
Place by Nuclear Methods (Shallow Depth) |
| ASTM D | 4318 | 1984 Liquid Limit, Plastic Limit, and
Plasticity Index of Soils |
| ASTM D | 4397 | 1991 Polyethylene Sheeting for
Construction, Industrial, and Agricultural
Applications |
| | COMMERCIAL ITEM DESCR | IPTIONS (CID) |

CID A-A-1909 Fertilizer

CORPS OF ENGINEERS (COE)

COE EM-385-1-1 1992 Safety and Health Requirements Manual Time Critical Removal Action, Site 6

1.2 DEFINITIONS

1.2.1 Cohesive Materials

Materials ASTM D 2487 classified as GC, SC, ML, CL, MH, and CH. Materials classified as GM and SM will be identified as cohesive only when the fines have a plasticity index greater than zero.

1.2.2 Cohesionless Materials

Materials ASTM D 2487 classified as GW, GP, SW, and SP. Materials classified as GM and SM will be identified as cohesionless only when the fines have a plasticity index of zero.

1.3 SUBMITTALS

Submit the following in accordance with Section 7 of the Basic Contract.

1.3.1 SD-11, Factory Test Reports

Provide certification that imported material is free of contamination.

1.3.2 SD-12, Field Test Reports

Provide field and laboratory confirmatory samples for soil contamination, as necessary.

PART 2 PRODUCTS

2.1 SOIL MATERIALS

Free of debris, roots, wood, scrap material, vegetation, refuse, soft unsound particles, and deleterious, or objectionable materials. Unless specified otherwise, the maximum particle diameter shall be one-half the lift thickness at the intended location.

2.1.1 Common Fill

Approved, unclassified soil material with the characteristics required to compact to the soil density specified for the intended location.

2.1.2 Backfill and Fill Material

ASTM D 2487, classification GW, GP, GM, GC, SW, SP, SM, SC with a maximum ASTM D 4318 liquid limit of 35 maximum ASTM D 4318 plasticity index of 12 and a maximum of 25 percent by weight passing ASTM D 1140, No. 200 sieve. Base borrow material may also be used. The borrow area is indicated on the drawings.

Natural, friable soil representative of productive, well-drained soils in the area, free of subsoil, stumps, rocks larger than one inch diameter, brush, weeds, toxic substances, and other material detrimental to plant growth. Amend topsoil pH range to obtain a pH of 5.5 to 7.

SECTION 02220 PAGE 2

^{2.1.3} Topsoil

05933801

2.2 IMPORTED MATERIAL

All imported materials required to accomplish the work under these Contract Documents are subject to the following requirements:

- a. The Contractor must certify that all imported material is free from contamination. Certification shall be submitted to the Navy's Technical Representative. The source of all imported soil materials must be approved by the Government. Representative samples of imported soil materials must not be hazardous by definition or specific listing under Resource Conservation Recovery Act (RCRA) or Toxic Substance Control Act (TSCA) regulations. The frequency, type, and number of tests and detection limits for analysis of hazardous constituents shall be proposed by the Contractor for approval by the Government.
- b. All tests necessary for the Contractor to locate an acceptable source of imported material shall be make by the Contractor. Certification that the material conforms to the specification requirements along with copies of the test results from a qualified commercial testing laboratory shall be submitted to the Navy's Technical Representative for approval at least 10 days before the material is required for use. Samples shall be representative and be clearly marked to show the source of the material and the intended use on the project. Sampling of the material source shall be done by the Contractor in accordance with ASTM D75. The Contractor shall notify the Navy's Technical Representative at least 24 hours prior to sampling. The Navy's Technical Representative may at the Navy's Technical Representative's option, observe the sampling procedures. Tentative acceptance of the material source shall be based on an inspection of the source by the Navy's Technical Representative and/or the certified test results submitted by the Contractor to the Navy's Technical Representative at the Navy's Technical Representative's discretion. No imported materials shall be delivered to the site until the proposed source and material tests have been tentatively accepted in writing by the Navy's Technical Representative. Final acceptance will be based on tests make on samples of material taken from the completed and compacted course. All testing for final acceptance shall be performed by the Navy's Technical Representative.
- c. If tests conducted by the Contractor or the Navy's Technical Representative indicate that the material does not meet specification requirements, material placement will be terminated until corrective measures are taken. Material which does not conform to the specification requirements and is placed in the work shall be removed and replaced at the Contractor's expense.

2.3 BORROW

Obtain borrow materials required in excess of those furnished from excavations from the borrow area on MCB Camp Lejeune as indicated.

2.4 POLYETHYLENE SHEETING

ASTM D 4397.

PART 3 EXECUTION

3.1 SITE SAFETY AND SECURITY

3.1.1 Ordnance Survey

Conduct an ordnance survey of all areas scheduled for excavation prior to beginning any earthmoving activities. Ordnance personnel shall remain on-site during all excavation activities.

3.1.2 Gate

A chain link gate shall be placed at the northeast corner of Lot 203, as indicated, to restrict access to the removal areas.

3.2 SURFACE PREPARATION

3.2.1 Clearing and Grubbing

Unless indicated otherwise, remove trees, stumps, logs, shrubs, and brush within the excavation limits. Remove stumps entirely. Grub out matted roots and roots over 2 inches in diameter to at least 18 inches below existing surface. Felled trees may be stacked neatly outside the perimeter of the excavation in the wooded areas.

3.2.2 Unsuitable Material

Remove vegetation, debris, decayed vegetable matter, sod, mulch, and rubbish from excavation areas.

3.3 PROTECTION

3.3.1 Site Drainage

Provide for the collection and disposal of surface and subsurface water encountered during construction.

3.3.1.1 Surface Drainage

So that construction operations progress successfully, completely drain construction site during periods of construction to keep soil materials sufficiently dry. Provide temporary ditches, swales, and other drainage features and equipment as required to maintain dry soils. When unsuitable working platforms for equipment operation and unsuitable soil support for subsequent construction features develop, remove unsuitable material and provide new soil material as specified herein. I.

3.3.2 Underground Utilities

Location of the existing utilities indicated is approximate. The Contractor shall physically verify the location and elevation of the existing utilities indicated prior to starting construction.

3.4 GENERAL EXCAVATION

Excavate to contours, elevation, and dimensions indicated on the construction drawings. Keep excavations free from water. Excavate soil disturbed or weakened by Contractor's operations, soils softened or made unsuitable for subsequent construction due to exposure to weather. Backfill and compact to 85 percent of ASTM D 698 maximum density. Unless specified otherwise, backfill excavations cut below indicated depth and compact to 85 percent of ASTM D 698 maximum density.

- 3.5 EXCAVATION OF CONTAMINATED MATERIALS
- 3.5.1 Materials and Equipment
- 3.5.1.1 General

Provide all labor, materials, and equipment necessary to accomplish the work specified in these paragraphs.

3.5.1.2 Unclassified Excavation

Excavation is unclassified. All excavation shall be completed regardless of the type, nature, or condition of the materials encountered.

3.5.2 Limits of Excavation

- a. Begin the excavations with standard machinery. The Contractor shall manually complete the excavation of drums and containers after they are discovered by mechanical equipment to prevent puncturing or further damaging to the drums and containers. The stained soil area under the 55-gallon aboveground storage tank in Area B, as indicated, shall be excavated with standard mechanical equipment.
- b. Remove any stained soils and the surrounding one feet of soil encountered during the excavation. Excavations shall be to the depths shown on the construction drawings or until the soils from the limits of the excavations pass TCLP analysis. A 48 to 72 hour turnaround time shall be required to prevent the excavations from remaining for extended periods of time. All soils removed shall be placed in the appropriate stockpiles.
- c. If the integrity of an excavated drum or container is sound and no visible indications of leakage are apparent, the drum or container shall be removed with no additional excavation required.
- d. Once the Contractor has excavated the areas to the depths shown on the drawings, the Contractor shall conduct an on-site analysis of the excavation consisting of a visual inspection coupled with field

screening equipment to assess organic vapors.

- e. Final excavation areas shall be governed by field conditions and determined by the Navy's Technical Representative.
- f. Remove, segregate, and stockpile all debris such as metal, wood, and building materials uncovered during the excavation for proper disposal.
- g. Construct a small berm around the top perimeter of the excavation areas to prevent surface waters from entering the pits. Remove and contain any ponded water collected in the excavations.
- h. If a rupture occurs during the excavation or moving process; collect, contain, and overpack the spilled drum contents and the affected soil.
- i. Provide temporary containment areas at the locations indicated. Cover the containment areas with 40 mil polyethylene sheeting. Place excavated contaminated soil or the drums to be disposed of on the impervious barrier and cover with 40 mil polyethylene sheeting. Provide a compacted soil berm around the outer limits of the containment areas and cover with polyethylene sheeting. Secure the edges of the sheeting as indicated.
- j. Transfer all drums, containers, debris and soil to the designated storage areas for processing and disposal.
- k. Contaminated materials shall be loaded into covered containers or vehicles designed to transport such materials without spillage. Care shall be taken during loading operations to minimize the potential for spillage, tracking, or other means of deposition of contaminated materials outside the work area. Contaminated materials which become spilled on roads, street, or other areas outside the limits of excavation during the loading operation shall be immediately reported to the Navy's Technical Representative, and immediately cleaned up to the satisfaction of the Navy's Technical Representative.
- 1. Backfilling of excavated areas will begin only after the approval of the Navy's Technical Representative.
- m. The Contractor and the Navy's Technical Representative shall work together closely to coordinate excavation, sampling, and analyses to minimize downtime. The Contractor shall schedule work to minimize downtime.

3.5.3 Method of Measurement

a. The solid wastes shall be separated according to their final disposal requirements. The quantity of work done under this paragraph will be measured in tons of "Excavation" which shall be the actual weight of the solid waste removed.

Time Critical Removal Action, Site 6

b. No separate measurements will be made for control of water, protection of obstructions, or other work associated with the excavation and loading of materials at the site. These tasks are considered to be incidental to and part of the work specified.

3.5.4 Temporary Containment of Contaminated Material

Provide temporary containment area at location indicated by the Contracting Officer. Cover the containment area with 40 mil polyethylene sheeting. Place excavated contaminated soil on the impervious barrier and cover with 40 mil polyethylene sheeting. Provide soil berm around the outer limits of the containment area and cover with polyethylene sheets. Secure edges of sheets to keep polyethylene sheeting in place.

3.5.5 Loading of Excavated Materials

Contaminated materials shall be loaded into covered containers or vehicles designed to transport such materials without spillage. Care shall be taken during loading operations to minimize the potential for spillage, tracking, or other means of deposition of contaminated materials outside the work area. Contaminated materials which become spilled on roads, streets, or other areas outside the limits of excavation during the loading operation shall be immediately reported to the Contracting Officer, and immediately cleaned up to the satisfaction of the Contracting Officer.

3.5.6 Control of Dust

Dust control measures shall be in accordance with Section C, paragraph 4.12 of the Basic Contract. Keep dust down at all times, including during nonworking periods. Sprinkle or treat the soil at the site, haul roads, and other areas disturbed by operations with dust suppressants such as water. Dry brooming will not be permitted.

3.6 FILLING AND BACKFILLING

Fill and backfill to contours, elevations, and dimensions indicated. Compact each lift before placing overlaying lift.

3.6.1 Fill Placement

Provide for general site. Fill may be obtained from the borrow area located approximately three miles from Storage Lot 203, as indicated. Place in 2-foot lifts. Compact areas not accessible to rollers or compactors with mechanical hand tampers. Aerate material excessively moistened by rain to a satisfactory moisture content. Finish to a smooth surface by blading, rolling with a smooth roller, or both.

3.6.2 Method of Measurement

- a. The quantity of work done under this paragraph will be measured in cubic yards of "Replacement of Soil and Site Restoration" which shall consist of the volume of backfill actually placed back into the excavations at the site as specified herein.
- b. No separate measurement will be made for grading or finishing the

ı.

site. These tasks are considered to be incidental to and part of the work specified for "Replacement of Soil and Site Restoration."

3.7 COMPACTION

Expressed as a percentage of maximum density. Determine in-place density of existing subgrade; if required density exists, no compaction of existing subgrade will be required.

3.7.1 General Site

Compact under neath areas designated for vegetation by routing heavy machinery over the backfill area for three passes for each lift of backfill.

3.8 FINISH OPERATIONS

3.8.1 General Site

Compact underneath areas designated for vegetation by routing heavy machinery over the backfill area for three passes for each lift of backfill.

3.8 FINISH OPERATIONS

3.8.1 Grading

Finish grades to within one-tenth of one foot of existing surrounding contours. For existing grades that will remain but which were disturbed by Contractor's operations, return to original grade.

3.8.2 Seed

Scarify existing grade. Seed shall match existing vegetation. Provide seed at 5 pounds per 1000 square feet. Provide CID A-A-1909, Type I, Class 2, 10-10-10 analysis fertilizer at 25 pounds per 1000 square feet. Provide mulch and water to establish an acceptable stand of grass.

3.8.3 Protection of Surfaces

Protect newly graded areas from traffic, erosion, and settlements that may occur. Repair or reestablish damaged grades, elevations, or slopes.

3.9 DISPOSITION OF SURPLUS MATERIALS

Remove from Government property surplus or other soil material not required or suitable for filling or backfilling, and brush, refuse, stumps, roots, and timber.

-- End of Section --

SECTION 02223

TRANSPORTATION AND DISPOSAL OF CONTAMINATED MATERIAL

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

1.1.1 Code of Federal Regulations:

40 CFR Parts 260 to 280 49 CFR Parts 100 to 180

1.2 SUBMITTALS

1.2.1 Documentation

Provide the Navy's Technical Representative with the following decontamination, transportation and disposal documentation:

- a. Written verification that the proposed disposal site is permitted to accept the contaminated materials specified, prior to the start of excavation. All treatment and disposal facilities shall be identified. Permitting and licensing information shall be provided for each facility along with a contact person, address, and a telephone number. The specific waste types to be treated and disposed must be clearly identified.
- b. Copies of manifests and other documentation required for shipment of waste materials within 24 hours after removal of waste from the site.
- c. Verification that the wastes were actually delivered and disposed of at the disposal site, within 7 days of disposal.
- d. Verification that all vehicles and containers were decontaminated prior to leaving the disposal site, within 3 days of disposal.
- e. Verification that all vehicles and containers were decontaminated prior to leaving Site 6, were properly operating, and were covered, within 24 hours after removal of waste from the site.

1.3 DEFINITIONS

The following definitions shall apply, in addition to the definitions for the various waste types described in Part 4 of the Basic Contract.

1.3.1 Government Generated Waste

Government generated waste shall include all contaminated soils, drums and containers, storage tanks, debris and container contents existing at the

site prior to the commencement of contract work.

1.3.2 Contractor Generated Waste

Contractor generated waste shall include all materials which become contaminated with wastes as defined in the Basic Contract as a result of Contractor activity at the site after the commencement of contract work.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.1 GENERAL

3.1.1 Materials and Equipment

Furnish all labor, materials, and equipment necessary to transport and dispose of contaminated soils, drums, tanks, contaminated materials, and overpack drum contents in accordance with applicable Federal, State, and local requirements.

3.1.2 Waste Disposal

3.1.2.1 Processing Sampling Wastes

Wastes generated during hazard characterization and compatibility testing, which shall include but not be limited to, all surplus samples, glass jars, sampling devices, and chemical materials, shall be packed in overpack drums and labeled for off-site disposal.

3.1.2.2 Processing Empty Drums and Containers

All empty drums and containers shall be triple-rinsed in accordance with federal, state, and local requirements. Empty drums shall then be crushed and staged for disposal or recycling.

3.1.2.3 Processing Empty Storage Tanks

All empty storage tanks shall be thoroughly rinsed and cleaned in accordance with federal, state, and local requirements. All potentially flammable or combustible sludges, residues and vapors shall be removed or their effects mitigated prior to decommissioning the storage tank. The Contractor shall stage the resulting scrap metal for disposal or recycling.

3.1.2.4 Processing Rinsate Solutions

Containerize in compatible drums all rinsate solutions for sampling and disposal. The drums containing rinsate solution shall be placed in the final staging area.

If an empty drum, storage tank, or container has an oil-based residue, it shall be triple-rinsed with high pressure water or steam. The decontamination fluids shall be containerized separately and placed in the

SECTION 02223 PAGE 2

final staging area for preparation for disposal.

3.1.3 Transportation and Disposal Records

Provide and prepare all waste shipment records/manifests for hazardous and nonhazardous wastes, required by the Resource Conservation and Recovery Act (RCRA) and the U.S. Department of Transportation (DOT). The Contractor shall complete all labels, profile sheets, and disposal restriction forms as necessary, including all DOT, USEPA, and state classifications. The Contractor shall provide a 48 hour notification to MCB Environmental Management Division for required signatures on waste manifests. Following completion of all paperwork, the Contractor shall submit this material and supporting documentation to the Navy's Technical Representative.

3.1.4 Transportation

The Contractor shall be solely responsible for complying with all federal, state, and local requirements for transporting hazardous materials through the applicable jurisdictions and shall bear all responsibility and cost for any noncompliance. In addition to those requirements, the Contractor shall do the following:

- a. The Contractor shall weigh all containers for disposal prior to leaving MCB Camp Lejeune. The Contractor may use MCB landfill scales if the scales operator is provided with a 24 hour notification. The existing scales in Storage Lot 203 may be used. The Contractor shall provide certified accuracy of the scales at Lot 203 to ±10 percent.
- b. Inspect and document all vehicles and containers for proper operation and covering.
- c. Inspect all vehicles and containers for proper markings, manifest documents, and other requirements for waste shipment.
- d. Perform and document decontamination procedures prior to leaving the worksite and again before leaving the disposal site.

3.1.5 Disposal

All contaminated materials classified as hazardous under RCRA (40 CFR Part 261) that are removed from the site shall be disposed of in a RCRA hazardous waste treatment/disposal facility permitted to accept such materials.

All construction rubble materials excavated from the site shall be disposed of in a North Carolina-approved solid waste disposal facility permitted to accept such materials.

All decontaminated metal material shall be taken to a metal recycling facility.

-- End of Section --

SECTION 13100

DRUM AND CONTAINER REMOVAL

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN PETROLEUM INSTITUTE (API)

API 2015

Cleaning Petroleum Storage Tanks

1.2 SUBMITTALS

- a. Compatibility Testing and Hazard Categorization Support Documentation.
- b. Manifest Documentation
- c. Certification of Industrial Hygienist

1.3 DEFINITIONS

The following definitions shall apply to all removal requirements.

1.3.1 Spill

A spill shall denote both an intentional and unintentional uncontrolled discharge or release resulting in any quantity of a possibly hazardous constituent running off or about to run off the external surface of equipment or other source, as well as contamination resulting from those releases.

1.3.2 Leak

Leak or leaking shall denote an instance in which any article, container, or equipment has a liquid or semi-liquid on any portion of its external surface.

1.3.3 Container

A container shall be any portable device with a capacity less than of equal to five gallons in which a material can be stored, handled, transported, treated or disposed of.

1.3.4 Drum

A drum shall be any portable device with a capacity greater than five gallons in which a material can be stored, handled, transported, treated or disposed of. Time Critical Removal Action, Site 6

ī

1.3.5 Open

A container or drum shall be considered open if there are any visible holes on the surface of the container or drum, or if the container or drum appear to be leaking.

1.4 HEALTH AND SAFETY

1.4.1 Training

Provide each employee and visitor to the site with a copy of the site Health and Safety Plan. Instruct employees on the dangers of chemical exposure, respirator use, decontamination, and applicable OSHA and EPA regulations prior to the start of work.

1.5.2 Certified Industrial Hygienist (CIH)

Obtain the services of an industrial hygienist certified by the American Board of Industrial Hygiene to regulate training, review and approve removal plans, and determine the need for personnel protective equipment in performing removal work.

PART 2 PRODUCTS

2.1 OVERPACK DRUMS

Overpack drums shall meet all federal, state, and local regulations regarding waste containment and transportation. Overpack drums other than 55 or 95 gallon capacity may be used, but must meet the corrosion and reactivity requirements specified in the following sections. The Contractor shall notify the Navy's Technical Representative for approval prior to utilizing any overpack drums not specified below.

2.1.1 Steel Overpack Drums

Steel overpack drums shall have an 55-gallon capacity and have an open-head with a corrosion resistant epoxy liner, bolt ring, bolt nut, and rubber sponge gasket.

2.1.2 Polyethylene Overpack Drums

Polyethylene overpack drums shall have a 95-gallon capacity and shall be ultra violet light inhibiting with a closed cell polyethylene gasket.

2.2 Rinsate Solutions and Solvents

Rinsate solutions shall be required to triple-rinse and remove any residual solids, liquids, or vapors from the drums and containers.

PART 3 EXECUTION

3.1 TEMPORARY DRUM STORAGE

A temporary processing area, a temporary rinse area, and a temporary staging area are to be constructed within the secured (fenced) portion of the site. The bermed processing, rinsing, and staging areas shall be lined with 40 mil. polyethylene sheeting or equivalent. A detail of the temporary drum storage area is located in the construction drawings.

3.2 REMOVAL OF DRUMS AND CONTAINERS

Remove all drums and containers from the ground surface and the excavated pit areas as shown on the construction drawings. All leaking or open drums and containers holding liquids, sludges, or solids, as well as deteriorated drums that may rupture during handling shall be placed into overpack drums compatible with the drum's contents.

Empty and deteriorated drums shall be transferred to the drum staging area.

If the potential exists for spilling the liquid contents of the drums and containers during the excavation or moving process, the liquid shall be transferred to an overpack drum using a portable pump capable of transferring the liquid to an appropriate container prior to moving the existing container.

If a rupture occurs during the excavation or moving process, the spilled drum contents and affected soil shall be contained, collected, and overpacked. Remove all contaminated soil as delineated in the construction drawings as well as removing a two foot width of soil around and beneath the perimeter of any spill area. The soil shall be placed in the overpack drum containing the spilled drum contents. All excavations shall remain open until the excavated areas are sampled, tested, certified to be clean and approved by the Navy's Technical Representative.

Transfer all overpack drums, drums and containers holding liquids, solids, or sludges to a lined containment area for compatibility testing and hazard categorization.

3.3 PROCESSING OF DRUMS, CONTAINERS AND THEIR ASSOCIATED CONTENTS

The Contractor shall be responsible for all hazard categorization and waste compatibility testing in accordance with all Federal, State, and local regulations. The Contractor shall be responsible for providing the disposal facilities with all necessary waste analysis and profiles that may be required for waste disposal acceptance. The Contractor shall perform any sampling and analyses required to verify or supplement the analytical results provided at the end of this section and to profile the waste materials for disposal.

3.4 SITE ENTRY AND SAFETY

Initially identify the size, color, condition, type and identifying markings on each of the drums and containers. In addition to the drum categorization and testing results, provide daily recording of

meteorological conditions and other pertinent information regarding site conditions and operations.

Personnel safety monitoring procedures as described in the Health and Safety Plan will be strictly adhered to during the handling, hazard characterization process and the compatibility testing. Personnel safety monitoring equipment shall include, but not be limited to, a combustible gas indicator for monitoring the lower explosive limit (LEL) and oxygen content of the ambient atmosphere, a photoionization detector, and a radioactivity survey meter. Testing, characterization, and handling operations shall be monitored with the radiation survey instrument, organic vapor detector, and combustible gas indicator.

-- End of Section --

t

SECTION 13219

CLEANING ABOVE GROUND STORAGE TANKS

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI Z88.2 1980 Respiratory Protection

AMERICAN PETROLEUM INSTITUTE (API)

API RP 500C 1984 (R1990) Locations for Electrical Installations at Pipeline Transportation Facilities

API RP 2003 1991 Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents

CODE OF FEDERAL REGULATIONS (CFR)

29 CFR 1910 Occupational Safety and Health Standards

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)

EPA SW-846 1986 Evaluating Solid Waste

EPA 600-4-79-20 1976 Contaminant Monitoring

FEDERAL SPECIFICATIONS (FS)

| FS TT-T-291 | (Rev. F) (Int Am. 1) Thinner, Paint, | |
|-------------|---------------------------------------|--|
| | Mineral Spirits, Regular and Odorless | |
| | | |

FS O-D-1276 (Rev. B) Disinfectant-Detergent, General Purpose (Pine Oil)

NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH)

NIOSH 85-101 1990 NIOSH Certified Personnel Protective Equipment List

1.2 SUBMITTALS

Submit the following:

Time Critical Removal Action, Site 6

1.2.1 SD-02, Manufacturer's Catalog Data

T

- a. Cleaning agents
- b. Gasoline-oil-resisting rubber gloves and boots
- c. Respiratory protective equipment
- d. Disinfectant

Submit identification for the items by designated name, specification number, project contracting number, and intended use.

1.2.2 SD-06, Instructions

a. Tank cleaning agents

Submit material safety data sheets for materials to be used at the job site, in accordance with 29 CFR 1910.1200.

1.2.3 SD-08, Statements

- a. Tank certification of safety
- 1.2.3.1 Tank Certification of Safety

Submit certification, from an NFPA certified "Marine Chemist" stating that tank is safe for hot work and that special precautionary measures have been taken for workers to enter the tank to perform the work.

1.2.4 SD-10, Test Reports

a. Tank contents tests

1.2.5 SD-13, Certificates

- a. Respiratory protective equipment
- b. Combustible gas indicator
- c. Hydrogen-sulfide (H₂S) indicator
- d. Oxygen meter
- e. Velometers

Submit certificates for the items listed. Where equipment or materials are specified to conform with the standards of organizations, such as National Institute for Occupational Safety and Health (NIOSH), Underwriters Laboratories (UL), and American Petroleum Institute (API), include a label or listing indicating compliance. In lieu of the label or listing, the Contractor may submit a test report from an approved testing organization stating that the item has been tested in accordance with the specified organization's test methods and that the item conforms with the organization's standard or code. T

1.2.6 SD-18, Records

a. Tank disposal paperwork

1.3 QUALITY ASSURANCE

1.3.1 Modification of References

Except as modified herein, the work shall conform with the recommendations of API RP 500C and API RP 2003, API PUBL 2015. Where the word "should" appears in these publications, substitute "shall."

1.3.2 Copies of Standards

Furnish four copies of API RP 500C AND API RP 2003, API PUBL 2015.

1.3.3 Regulatory Requirements

- a. Obtain permits required to comply with local state, and federal regulations.
- b. Hazardous wastes, such as water, sediment, and sludge, shall be packaged, labeled, stored, transported, treated and disposed of in accordance with 40 CFR 260 through 40 CFR 266 and state and local regulations. Transporters, sorters, treaters and disposers must be certified and have EPA ID numbers. Payment for disposal of hazardous waste will not be made until a completed hazardous waste manifest from the treatment or disposal facility is returned, and a copy furnished to the Government.

1.4 DELIVERY AND STORAGE

Deliver equipment and materials to the site in an undamaged condition bearing the manufacturer's name and brand designation. Store equipment and materials off the ground to provide proper ventilation, drainage, and protection against dampness. Replace defective and damaged equipment and materials.

1.5 JOB CONDITIONS

1.5.1 Safety

Ensure that employees are trained in the requirements of 29 CFR 1910.1200 and understand the information contained in the MSDS for protection against toxic and hazardous chemical effects.

- 1.6 SCHEDULING AND SEQUENCING
- 1.6.1 Sequence of Primary Phases of the Cleaning Procedure
 - a. Planning the operations
 - b. Preparation for cleaning

- c. Vapor-freeing of the tank
- d. Cleaning the tank
- e. Clean-up, residue disposal, inspection, and acceptance.
- 1.6.2 General Scheduling

Complete the work specified in this section before any other work in the tank is started. The work includes the complete interior cleaning of the storage tanks.

- PART 2 PRODUCTS
- 2.1 MATERIALS
- 2.1.1 Cleaning Agents
 - a. Detergent: FS O-D-1276.
 - b. Solvent: FS TT-T-291, Type II, minimum flashpoint of 60 degrees C.
 - c. Approved commercial cleaning agent.

2.2 EQUIPMENT

Furnish necessary clothing and equipment for the work and protection of people cleaning the tanks. Electrical equipment and wiring shall be in accordance with NFPA 70, Class 1, Group D, Division 1. Provide any item or items for the protection of these people including but not limited to the following:

- a. Gasoline-Oil-Resisting Rubber Gloves and Boots: Gauntlet type and conductive type respectively (acid-proof rubber is an acceptable material); furnished for each person handling sludge materials on the exterior of the tank, plus one extra pair each for emergency use.
- b. Cotton Coveralls and Hard Hat: Light colored; one change per person per day, and an adequate supply of chemical-resistant disposable coveralls to be worn over cotton coveralls.
- c. Combustible Gas Indicator, Hydrogen-Sulfide (H₂S) Indicator, Benzene Indicator and Oxygen Meter.
- d. Shovels, Buckets, Brooms, Wrenches, Scrapers, Squeegees, Wire Brushes, Scrub-Brushes, Ladders, Staging, and Other Tools: Do not use brooms or brushes that have plastic or synthetic bristles.
- e. Lighting: UL 844, explosion-proof, minimum 50 footcandle, floodlight type, or Mining Enforcement and Safety Administration (MESA) approved, explosion-proof, portable battery-powered light.

I.

- f. Air Movers for Tank Ventilation: Explosion proof electrically operated or air driven. Nonferrous fan blades. Use velometers for measuring velocity.
- g. Soap for Personnel Washing: Non-phosphate type.
- h. A.B.C. Fire Extinguishers: UL listed 2A: 40B: C, 2A: 20B: C, or 4A: 30B: C; minimum 15 pound capacity.
- i. First Aid Kit: One 16-unit kit for each 25 persons.

PART 3 EXECUTION

3.1 REMOVAL AND DISPOSAL OF TANKS

Furnish labor, materials, and equipment to remove and dispose of products remaining in the tanks; clean and vapor free the tanks; sample wash water to determine if contaminated; dispose of tanks and associated piping.

3.2 PROJECT CONDITIONS

The following conditions shall be met while the aboveground storage tank cleaning and removal is underway:

- a. The Contractor's qualified supervisor is present.
- b. The Contractor's personnel have been briefed by the supervisor on the procedure and role of each employee in the event of an emergency.
- c. Required equipment is approved and properly located.
- d. Tank air is monitored and corrective action is taken to ensure that the vapor concentration is less than 10 percent of the lower flammable limit (LFL), hydrogen sulfide is less than 10 ppm permissible exposure level (PEL), benzene is less than 10 ppm PEL and oxygen content is a minimum of 19.5 percent.
- e. An NFPA certified "Marine Chemist" has certified that the tank is safe for hot work, and that the required special precautionary measures have been taken due to the potential health hazard to the worker that still exists, even when the vapor concentration is well below the LFL. The Contractor shall be responsible for reviewing the record drawing(s) of the tanks to be cleaned.
- f. People entering the area leave smoking materials such as cigarettes and flame-producing devices at a previously determined location.
- g. When work involves handling and disposal of hazardous waste, the Contractor has a copy of 40 CFR 260, 40 CFR 261, 40 CFR 262, 40 CFR 263, 40 CFR 264, 40 CFR 265, and 40 CFR 266 in his possession.
- h. Permit only personnel authorized in the safety plan within 100 feet of the tank perimeter.

Т

05933801

3.2.1 Traffic Control

Direct traffic minimum 200 feet away from the tank cleaning area. Set up road blocks and warning signs. Do not operate vehicles in hazardous areas.

3.2.2 Miscellaneous

Ensure that the manufacturers have labelled containers holding products involving hazards in use or storage, in accordance with 29 CFR 1910.1200. Label containers used to store, transport, or dispose of hazardous waste in accordance with 40 CFR 260, 40 CFR 261, 40 CFR 262, 40 CFR 263, 40 CFR 264, 40 CFR 265, and 40 CFR 266 and State Regulations. Remove small objects of ferrous metal within the working areas to prevent the accidental striking of a spark. Place equipment upwind of tank openings at highest elevation possible; do not place in a spot lower than the surrounding terrain. Provide floodlights to illuminate the work area, if necessary, without the need for battery operated handlights. Provide scaffolding, platforms, and ladders for secure, safe accessibility to tank surfaces. Install electrical equipment in accordance with API RP 500C. Do not use artificial lights inside tank until the tank is vapor-free.

3.2.2.1 Grounding and Bonding for Equipment

Provide grounding and bonding for equipment which may generate static electricity.

3.2.2.2 Fire Extinguishers

Furnish two carbon-dioxide fire extinguishers of minimum 15 pounds capacity each, in the immediate vicinity of the work. Provide a continuous fire watch. CAUTION: Do not discharge high pressure carbon dioxide extinguishers where explosive vapors exist since the discharge can cause a spark which will ignite the vapors.

3.2.2.3 Removal of Ignition Sources

Remove sources of ignition from the cleaning area. Do not permit ignition producing devices, including matches, lighters or cigarettes, within 100 feet upwind and 200 feet downwind of a tank.

3.2.2.4 Survey of Hazardous Areas

Carefully survey the entire area around the tank to be cleaned to ensure that there are no hazardous areas and that all unauthorized personnel are cleared from the area. Ensure that there is no possibility of anyone smoking in the immediate vicinity. Hazardous areas are defined as follows:

- a. Interior of tanks.
- b. Areas within 100 feet from points having flammable vapor emissions which, for example, are from the exhaust manholes of tanks under repair, open vents or pressure vacuum vents (breather valves) of active tanks in the vicinity of tanks under repairs or cleaning.

T

CAUTION: Allowance shall be made for 4 or more miles-per-hour winds by increasing the size of the hazardous area to a minimum of 200 feet on the downward side.

- 3.3 INSPECTION
- 3.3.1 Inspection of Equipment
- 3.3.1.1 Respirators

Respirator users shall inspect their respirators in strict accordance with the instructions provided by the manufacturer.

3.3.1.2 Monitoring Equipment

Calibrate each day before use:

- a. Combustible gas indicator
- b. Oxygen meter
- c. H₂S Indicator
- 3.3.1.3 Other Equipment

Ensure:

- a. Proper grounding and bonding;
- b. Explosion-proof motors; and
- c. Explosion-proof lighting.
- 3.3.2 Personnel Inspection

3.3.2.1 Clothing

Personnel for Proper Attire Commensurate with Hazards Involved: Check for:

- a. Clean clothing in good condition (wear freshly laundered clothing at the beginning of the job and at the start of each workday thereafter).
- b. Boots and gloves of approved type and in good condition.
- 3.3.2.2 Gum or Tobacco Chewing

Ensure that gum or tobacco chewing is prohibited.

3.3.2.3 Physical Defects or Injuries

Ensure that people have no physical defects or injuries which may prevent their wearing respirators or which may cause rescue to be difficult. No beards, sideburns, or large mustaches shall be allowed on people who must

SECTION 13219 PAGE 7

L

wear respirators.

3.3.2.4 Alcoholic Beverages and Drugs

Ensure that people entering the tank are not under influence of alcoholic beverages and drugs.

3.3.2.5 Females with Child-Bearing-Capability

Females with child-bearing capability shall not be allowed to work in contaminated areas or in leaded gasoline or chemically contaminated tanks since they may be seriously affected by organic lead compound or other chemical contaminants.

3.3.2.6 Hazardous Areas

Check hazardous areas as defined in paragraph entitled "Survey of Hazardous Areas."

3.4 FUEL REMOVAL

All possible fuel will be pumped or otherwise removed from the tank. Consider remaining fuel contaminated or waste fuel; pump into 55 gallon drums or other suitable containers for disposal in accordance with approved procedures meeting local, state, and federal regulations. Dispose of remaining fuel emulsions in accordance with applicable local, state, and federal regulations. Drums or tanks used for containerizing waste fuel will be furnished by the Contractor.

3.5 PURGING

Remove flammable vapors in accordance to API RP 1604. Tanks shall be certified as "Gas Free" prior to further work.

3.6 TANK CLEANING

For the interior of the tanks, the shell, bottom, columns, roof, roof beams, and interior accessory equipment such as pumps, piping, and ladders, shall be cleaned to the sound surface of the lining or coating, free of rust, dirt, scale, loose materials, fuel, oil, grease, sludge, and other deleterious materials. Do not damage sound existing lining material. Remove unsound or loose lining or coating and clean the surfaces exposed thereby to bare metal or concrete as applicable. Immediately notify the Navy's Technical Representative if the lining or coating is deteriorated or loose.

3.6.1 Water, Sediment, and Sludge Analysis

The Contractor shall be responsible for testing the water, sediment, and sludge in accordance with 40 CFR 261. Submit laboratory reports to the Navy's Technical Representative describing sampling and testing procedures used, test results, and findings. If the Contractor's tests determine that the water, sediment, and sludge are hazardous, then the hazardous wastes shall be packaged, labeled, stored, transported, treated and disposed of in accordance with 40 CFR 260, 40 CFR 261, 40 CFR 262, 40 CFR

Time Critical Removal Action, Site 6

T

263, 40 CFR 264, 40 CFR 265, and 40 CFR 266. Transporters, storers, treaters and disposers must be certified and have EPA ID numbers. Payment for disposal of hazardous waste will not be made until a completed hazardous waste manifest from the treatment or disposal facility is returned, and a copy furnished to the Government. Nonhazardous or hazardous wastes shall be handled and disposed of as described below.

3.6.2 Water Removal and Disposal

Pump or otherwise remove water from the tank. Ensure that the sludge and sediment are not pumped out or mixed with the water. The water shall be packaged, labeled, stored, transported, treated, and disposed of in accordance with 40 CFR 260, 40 CFR 261, 40 CFR 262, 40 CFR 263, 40 CFR 264, 40 CFR 265, and 40 CFR 266.

3.6.3 Sludge and Sediment Removal and Disposal

Squeegee or brush any sludge, sediment, or other loose material into piles, shovel into buckets or other suitable containers, and remove from the tank.

3.6.3.1 Removal of Sludge

Sludge in the tank shall be disposed of by the Contractor. Package, label, store, transport, treat, and dispose of hazardous sludge and sediment in accordance with 40 CFR 260, 40 CFR 261, 40 CFR 262, 40 CFR 263, 40 CFR 264, 40 CFR 265, and 40 CFR 266.

3.6.4 Washing

After water, fuel, and sludge have been removed, thoroughly wash the tank interior. Minimize the use of water; substitute brush blasting when practical. Start washing at the top of the walls and columns and work down to the floor. Wash the floor last starting from the sides and working towards the sump. Wash to remove oil, sludge, wax, tar, and other fuel residue adhering to the surface. Wash by any one or a combination of the following methods:

- a. Use only fresh water under pressure.
- b. Apply a detergent conforming to FS O-D-1276 by spray or brush and soak approximately 30 minutes.
- c. Apply a detergent cleaning solution by spray or brush and allow to soak approximately 30 minutes. The cleaning solution shall be either a one-to-one ratio of detergent conforming to FS O-D-1276 and solvent conforming to FS TT-T-291 or an equivalent commercial cleaning agent as approved by the Navy's Technical Representative.
- d. Hand-scrub the surfaces vigorously with long-handled stiff-bristle brushes. Wet the brushes intermittently with fresh cleaning agent during scrubbing process. For heavily oil-soaked areas which still appear to retain some residue after first scrubbing, give a second application of cleaning agent and repeat the scrub process a second time. Scrub until clean.

Т

e. Rinse the surfaces thoroughly with fresh water.

3.6.5 Wash Water, Detergent Solution, and Sediment Removal

During the washing process, operate a portable pump continuously with suction hose extended to the tank bottom to remove water, detergent, dirt, oil, or other loose materials washed off. Following the final rinse, pump, squeegee, and mop the tank dry.

a. Prior to discharge or disposal, test the wash water, sediment, and sludge in accordance with paragraph titled "Water, Sediment, and Sludge Analysis," if previous test results showed that the water, sediment, and sludge were hazardous.

3.7 FINAL CLEAN-UP

After the Navy's Technical Representative has inspected and accepted the tank cleaning and before final inspection, accomplish the following work:

3.7.1 Stenciling Tank

Stencil on the tank in 3/4-inch letters adjacent to the manhole openings the following data:

Date Cleaned

Contractor Name

Address

3.7.2 Restoration of Site to Original Condition

Remove, from the site, debris and equipment and materials used for the cleaning operations. Restore the site to its original condition.

-- End of Section --

CONTACTS FOR DRUM REMOVAL ACTION MCB CAMP LEJEUNE, JACKSONVILLE, NORTH CAROLINA SERVICE DELIVERY ORDER N47408-92-D-3042 D.O. 20

COTR

Mr. Tim Anderson NEESA 1001 Lyons Street, Suite 1 Port Hueneme, CA 93043-4340 (805) 982-4840 FAX (805) 982-4303

Т

Mike Carsley (Alternate) NEESA 1001 Lyons Street, Suite 1 Port Hueneme, CA 93043-4340 (805) 982-4890

RPM

Mr. James Szykman Code 1823 Atlantic Division Naval Facilities Engineering Command Norfolk, VA 23511-2699 (804) 322-4795 FAX (804) 322-4805

ROICC/ACO

Lt. Steve Challeen ROICC Jacksonville 1005 Michael Road Camp Lejeune, NC 20547-2521 (919) 451-2583 FAX (919) 451-5899

ACTIVITY

Mr. Neal Paul EMD IR/UST Division Bldg. 1, Marine Corps Base Camp Lejeune, NC 28542 (919) 451-5872 FAX (919) 451-5997

NTR

Mr. John Cotton ROICC Jacksonville 1005 Michael Road Camp Lejeune, NC 20547-2521 (919) 451-5006 FAX (919) 451-5899

PCO

NAVFACCO Ms. Lynn Shusterich Naval Construction Battalion Center Naval Facilities Engineering Command Contracts Office, Code 2723 621 Pleasant Valley Road Port Hueneme, CA 93043-5000 (805) 982-6209 FAX (805) 982-5396

LANTDIV 405

Mr. Sonny Harrison Code 4052 Atlantic Division Naval Facilities Engineering Command Norfolk, VA 23511-2699 (804) 444-9938 FAX (804) 444-9065

LANTDIV 05

Lt. Ron Caswell Code 0524A Atlantic Division Naval Facilities Engineering Command Norfolk, VA 23511-2699 (804) 444-9882 FAX (804) 444-9063

DESIGNER

Ms. Coreen Casadei, P.E. Baker Environmental, Inc. 420 Rouser Road Coraopolis, PA 15108 (412) 269-2045 FAX (412) 269-2002

SUBMITTAL APPROVAL & DISTRIBUTION TIME CRITICAL REMOVAL ACTION, SITE 6, OPERABLE UNIT NO. 2 MCB CAMP LEJEUNE, JACKSONVILLE, NC (CONSTRUCTION)

August 13, 1993

DISTRIBUTION KEY

 $1 = COTR \qquad 2 = RPM$ $5 = ACTIVITY \qquad 6 = NAVFACCO \qquad 7$

4 = PCAS (NOT USED)E 405 8 = LANTDIV CODE 05 1

| Item
Number | Receiving
Date | Document to
be Reviewed
By | Distrib.
Letter Sent
to
NAVFACCO | Description | Type
Required | Approval &
Distribution | Specification
or Drawing
Reference | Submittal
Suspense | Frequency |
|----------------|-------------------|----------------------------------|---|--------------------------------------|---------------------------------------|--|--|------------------------------------|----------------------------|
| 1 | | | | Submittal Status
Log | See Section 7
of Basic
Contract | 1, 2, 3, 6
CQC Approval | 01010 | 10 days after award
of D.O. | One Time. |
| 2 | | | | CQC Plan Addenda | - | 1, 2, 3, 5
6 (notify)
NTR Approval | 01010 | 20 days after award
of D.O. | As needed
for approval. |
| 3 | | | | Testing Laboratory
Qualifications | ۳ | 2, 3
CQC Approval | 01010 | 15 days after award
of D.O. | One Time. |
| 4 | | | | Site Health and
Saftey plan | ۳ | 1, 2(2 copies),
3, 5.
6 (notify)
CQC Approval | 01010 | 20 days after award
of D.O. | As needed
for approval. |
| 5 | | | | Work Plan | | 1, 2, 3, 5, 6 | 01010 | 20 days after award
of D.O. | As needed
for approval. |
| 6 | | | | As-Built Record
Drawings | ۳ | 2 (4 copies), 3,
5, 6(notify), 8
CQC Approval | 01010 | Prior to completion of the project | One Time. |

NOTE: Submittals required by specifications and/or drawings shall be delivered as specified, regardless of information provided or omitted in this table. All submittals shall be classified as Distribution A (Approved for Public Release).

| Item
Number | Receiving
Date | Document to
be Reviewed
By | Distrib.
Letter Sent
to
NAVFACCO | Description | Type
Required | Approval &
Distribution | Specification
or Drawing
Reference | Submittal
Suspense | Frequency |
|----------------|-------------------|----------------------------------|---|---------------------------------------|---------------------------------------|--|--|---|----------------------------|
| 7 | | | | As-Built Record of
Materials | See Section 7
of Basic
Contract | 2, 3, 5, 6(notify),
CQC Approval | 01010 | Prior to completion of the
project | One Time. |
| 8 | | | | Site Sampling
and Analysis
Plan | * | 1, 2(5 copies),
3, 5, 6
NTR Approval | 01010 | 20 days after award of
D.O. | As needed
for approval. |
| 9 | | | | Status Reports | | 1, 2, 3, 5
6 (notify)
CQC Approval | 01010 | Monthly, beginning 30
days after D.O. award. | Monthly |
| 10 | | | | Non-Compliance
Check-Off List | - | 2, 3
CQC Approval | 01010 | Every 30 days after D. O.
award. | As needed. |
| 11 | | | | Test Results
Summary Report | - | 3, 5
CQC Approval | 01010 | Every 30 days after D. O.
award. | As needed. |
| 12 | | | | Daily Reports to
Inspector | Ŧ | 3
CQC Approval | 01010 | Start of construction. | Every work
day. |
| 13 | | | | Contractor Closeout
Report | ۳ | 2 (2 copies), 3, 5
CQC Approval | 01010 | Completion of project. | One Time. |
| 14 | | | | Permits | Ŧ | 3, 5, 6 (notify) | 01010 | DRAFT: 20 days after
D.O. award | As needed
for approval. |
| 15 | | | | Construction
Schedule | M | 1, 2, 3, 5,
6 (notify)
CQC Approved | 02220 | 20 days after award of
D.O. | One Time |

ŧ.

1 = COTR 2 = RPM 3 = NTR 4 = PCAS (NOT USED) 5 = ACTIVITY 6 = NAVFACCO 7 = LANIDIV CODE 405 8 = LANIDIV CODE 05

NOTE: Submittals required by specifications and / or drawings shall be delivered as specified, regardless of information provided or omitted in this table. All submittals shall be classified as Distribution A (Approved for Public Release).

| ltem
Number | Receiving
Date | Document to
be Reviewed
By | Distrib.
Letter Sent
to
NAVFACCO | Description | Type
Required | Approval &
Distribution | Specification
or Drawing
Reference | Submittal
Suspense | Frequency |
|----------------|-------------------|----------------------------------|---|--|---------------------------------------|----------------------------|--|---|--|
| 16 | | | | Certification of Clean
Material | See Section
7 of Basic
Contract | 2, 3
CQC Approval | 02220 | 10 days prior to
excavation. | One for each
(off-base)
source of
borrow. |
| 17 | | | | Contamination
Confirmatory
Sampling Results
(Field) | • | 2, 3, 5
CQC Approval | 02220 | So as not to delay work. | As needed. |
| 18 | | | | Certificate of
Permitted Disposal
Facility | - | 3, 5
CQC Approval | 02223 | 7 days prior to beginning
excavation. | One for each
disposal
facility used. |
| 19 | | | | Waste Shipment
Documentation | - | 3, 5
CQC Approval | 02223 | Within 24 hours after
removal from site. | Once per
load. |
| 20 | | | | Certificate of Material
Acceptance | | 3, 5
CQC Approval | 02223 | Within 7 days of disposal. | Once per
load. |
| 21 | | | | Certification of
Vehicle
Decontamination at
Disposal Site | ** | 3, 5
CQC Approval | 02223 | Within 7 days of disposal. | Once per
load. |
| 22 | | | | Certification of
Vehicle
Decontamination at
Site | 44 | 3, 5
CQC Approval | 02223 | Within 24 hours after
removal from site. | Once per
load. |

1 = COTR 2 = RPM 3 = NTR 4 = PCAS (NOT USED) 5 = ACTIVITY 6 = NAVFACCO 7 = LANTDIV CODE 405 8 = LANTDIV CODE 05

NOTE: Submittals required by specifications and / or drawings shall be delivered as specified, regardless of information provided or omitted in this table. All submittals shall be classified as Distribution A (Approved for Public Release).