

## 2022 Hazardous Waste Scanning Project

### File Form Naming Convention.

*(File\_Type).(Program).(Site\_Number).(YYYY-MM-DD).(File\_Name).pdf*

*Note 1: Each category is separated by a period "."*

*Note 2: Each word within category is separated by an underscore "\_"*

Specific File Naming Convention Label:

Report.HW.932026.1991-11-01, Haz - Waste - Inv - Report.pdf

*FINAL*

~~DRAFT~~

HAZARDOUS WASTE INVESTIGATION REPORT

FOR

CHEW ROAD (NY ROUTE 31 TO PRINTUP ROAD)

TUSCARORA INDIAN RESERVATION

NIAGARA COUNTY, NEW YORK

PIN 5753.46

Prepared By:

URS CONSULTANTS, INC.

282 DELAWARE AVENUE

BUFFALO, NEW YORK 14202

NOVEMBER 1991

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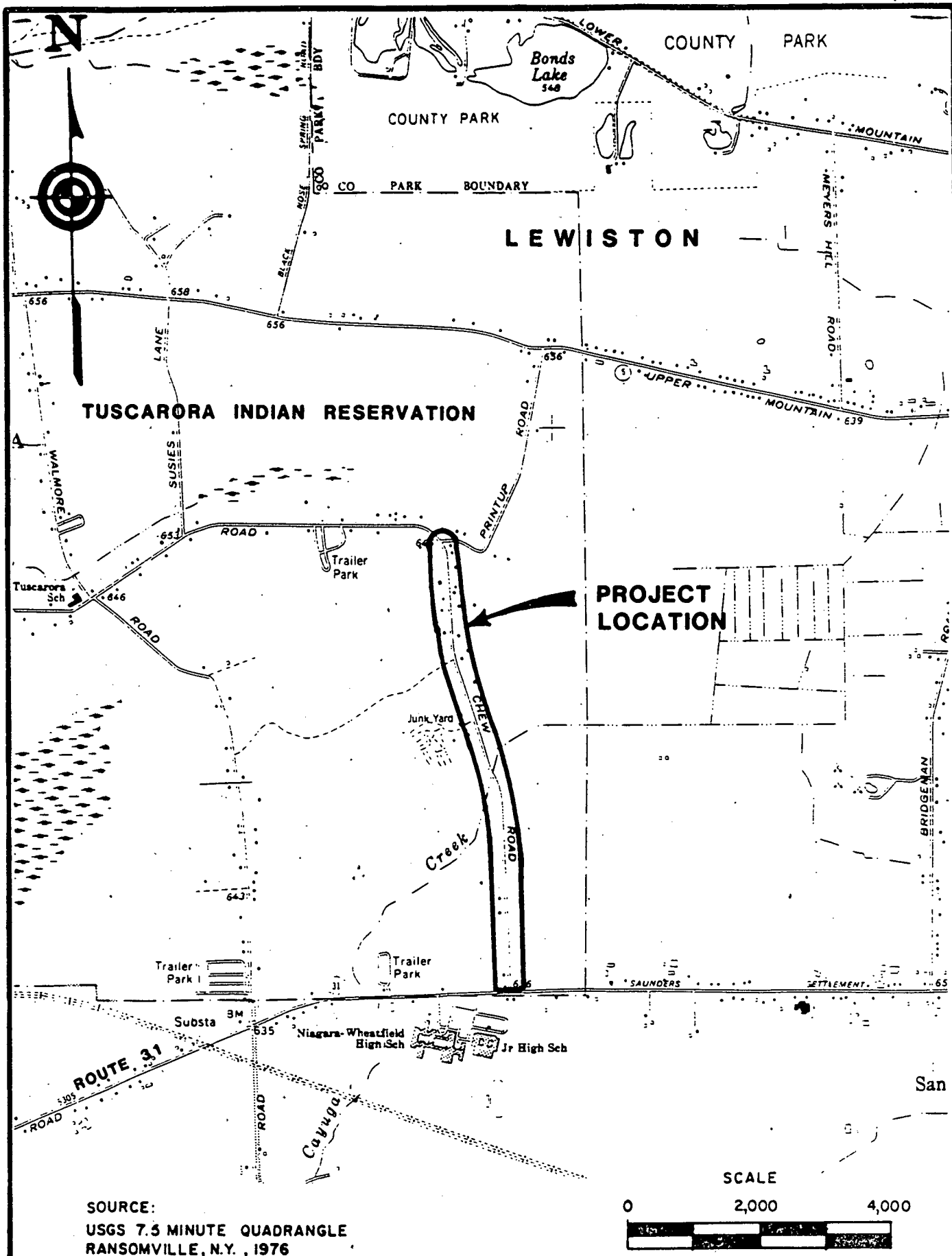
A Laboratory Report	
B Communications with Regulatory Agencies and Disposal Facilities	

## 1.0 INTRODUCTION

This Hazardous Waste Investigation Report is prepared under the terms of the New York State Department of Transportation (NYSDOT) Standby Contract No. D005711 with URS Consultants, Inc. (URS). The investigation, including sampling and analysis, has been conducted as a follow-up to earlier investigations of Chew Road, (PIN 5753.46) from NY Route 31 to Printup Road, on the Tuscarora Indian Reservation, Niagara County, New York (Figure 1).

In May 1991, NYSDOT requested URS to sample Chew Road for Toxicity Characteristic Leaching Procedure (TCLP) constituents, in connection with the characterization for disposal purposes of the old fill materials used for the road subgrade. This subgrade material was derived from slag residue from open hearth steel manufacturing operations, and was originally laid down in the 1950's. This road will be rebuilt, and NYSDOT has made the decision that all slag materials will be removed and disposed of off the Tuscarora Indian Reservation.

On August 8, 1991, URS performed a site inspection in preparation for the sampling activities to be conducted. Representatives from NYSDOT and Chief Ken Patterson, as representative of the Tuscarora Indians, were also present during this site inspection. An abbreviated sampling plan was prepared and sent in letter form to NYSDOT dated August 12, 1991.



**URS**  
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**SITE LOCATION MAP**  
**N.Y.S.D.O.T. - CHEW ROAD**

**FIGURE 1**

## 2.0 BACKGROUND

At NYSDOT's request, the Chew Road site was extensively sampled in August, 1987 by Ecology and Environment, Inc., (E&E) to determine if the embankment material contained any contaminants of concern, and whether there had been migration of any contaminants via leaching of the embankment. After testing, E&E concluded that, "...with the exception of some metals, there are no priority pollutants present in the embankment material." Analysis was performed for 23 metals, and only seven were above background levels. Calcium, chromium, magnesium, and sodium were present at levels significantly higher than background. "The remaining three metals (antimony, iron, and vanadium) were present at levels only slightly above background, and were not present at levels which are of any concern to public health...In addition, the results of EP Toxicity tests indicate that the two metals tested (chromium and vanadium) are not readily soluble or subject to leaching from the embankment...In summary, the constituents present in the roadway embankment are not hazardous, and the metals appear to be tightly bound to the slag and thus not subject to leaching and migration from the site." ("Summary of Sampling and Analysis of Roadway Embankment Along Chew Road," E&E, September, 1987).

Since 1987, however, the EP Toxicity (EP Tox) tests, formerly used to determine whether a material was hazardous, have been supplanted by the Toxicity Characteristic Leaching Procedure (TCLP) (Federal Register, September 25, 1990). Unfortunately, the two tests do not yield strictly comparable results. Therefore, NYSDEC has now required NYSDOT (April 22, 1991) to characterize these embankment (subgrade) soils for disposal purposes by TCLP methods.

### 3.0 SAMPLING AND ANALYTICAL PROGRAM

Seven composite subgrade (slag) samples were collected from 34 sampling points (Figure 2) along the approximately 7,000 feet of Chew Road. The site was characterized by collecting samples every 200 feet on alternating sides of the road. On the east side of the road, samples were collected at 200, 600, 1,000, etc., feet north of Route 31 to Printup Road. On the west side of the road, samples were collected at 400, 800, 1200, etc., feet north of Route 31 to Printup Road. This sampling scheme was patterned after E&E's 1987 investigation for comparability of results.

A backhoe (Ford 550) with a 1-foot wide bucket was used to excavate test holes at the road's shoulder, or edge of pavement. The shoulder of the road was chosen for the location of sampling points to avoid making the road impassable during sampling and to avoid further damage to the driving surface of the road. After each test pit was excavated, the side wall was examined for stratification (see Table 1).

Subgrade (slag) samples were collected from the bucket of the backhoe. The slag material was identified as a dense, light green/light gray material. Solid chunks of slag were broken up with a hammer in a pan to smaller particles for laboratory analysis. Slag material from each five successive sampling points was composited into a single sample for laboratory analysis. Thus, each sample represents approximately 1,000 feet of roadbed. Compositing was done by thoroughly mixing the five individual samples in a decontaminated stainless-steel bowl and collecting the sample for analysis with a decontaminated stainless-steel spoon. The use of composite samples allowed for characterization of the entire length of the road, since the material is likely derived from a single source, and appeared to be relatively homogeneous in this and previous investigations.

TABLE 1  
CHEW ROAD SAMPLE DESCRIPTIONS AND LOCATIONS

Sample ID	Sampling Point	Location **	Depth in Feet	Description
CR-01	#1	200,E	0-1.5 1.5-2.5*	Newer road bed, coarse gravel, some brown silt. Light green-light gray slag, dense. Unit varies from 0.5-1' thick.
	#2	400,W	0-0.5 0.5-1.0 1.0-3.5*	Coarse roadbed, gravel underlain by geofabric. Brown silty gravel (older road bed). Slag, typical, as described above.
	#3	600,E	0-1.0 1.0-1.5 1.5-3.5*	Newer road bed, coarse gravel. Brown silty gravel. Slag, typical.
	#4	800,W	0-2.5 2.5-5.0*	Gravel (fill) intermixed with asphalt and remnants of former road beds. Slag, typical, thickness varies from 1.5-2.5'.
	#5	1000,E	0-2.0 2.0-4.5*	Gravelly road bed. Slag, typical.
CR-02	#6	1200,W	0-2.5 2.5-3.5*	Gravelly road bed. Slag; spotty, loosely compacted.
	#7	1400,E	0-0.25 0.25-1.0 1.0-2.0 2.0-4.0*	Gravelly road bed (recent). Root material, some silty clay. Brown silty gravel (former road bed). Slag, typical.

\* Bottom of test pit - natural material.

\*\* Feet from Route 31, east or west side of road.

35223(5/90)/TABLE-1.RI



TABLE 1 (Continued)  
CHEW ROAD SAMPLE DESCRIPTIONS AND LOCATIONS

Sample ID	Sampling Point	Location **	Depth in Feet	Description
CR-02	#8	1600,W	0-2.0 2.0-6.5*	Road bed gravel (2 episodes) Slag, brittle. Location adjacent to dry culvert.
	#9	1800,E	0-1.0  1.0-2.5 2.5-5.0*	Recent gravel road bed, underlain with geofabric. Brown silty gravel (former road bed). Slag, typical.
	#10	2000,W	0-1.0 1.0-2.5 2.5-5.0*	Recent road bed gravel. Brown silty gravel road bed. Slag, typical.
CR-03	#11	2200,E	0-1.0 1.0-3.0 3.0-5.0*	Recent gravel road bed. Brown silty gravel road bed. Slag, typical.
	#12	2400,W	0-1.5 1.5-2.5*	Recent and former road bed gravel. Slag, typical.
	#13	2600,E	0-1.0 1.0-2.0*	Brown silty gravel road bed. Spotty slag deposits.
	#14	2800,W	0-3.0  3.0-4.0*	Silty gravel, some root material (1-2'); road fill. Spotty slag, varies from 0.5-1.0' thick.

\* Bottom of test pit - natural material.

\*\* Feet from Route 31, east or west side of road.

35223(5/90)/TABLE-1.RI

TABLE 1 (Continued)  
CHEW ROAD SAMPLE DESCRIPTIONS AND LOCATIONS

Sample ID	Sampling Point	Location **	Depth in Feet	Description
CR-03	#15	3000,E	0-2.0 2.0-4.0*	Gravel road fill (2 episodes). Slag, typical.
CR-04	#16	3200,W	0-1.0 1.0-2.0 2.0-4.0*	Recent gravel road bed fill. Brown silty gravel fill (former road bed). Slag, typical.
	#17	3440,E	0-1.0 1.0-2.0 2.0-4.5*	Recent gravel road bed fill. Brown silty gravel (former road bed). Slag, typical.
	#18	3640,E	0-1.0 1.0-1.5 1.5-3.5*	Recent gravel road bed. Brown silty gravel (former road bed). Slag, typical.
	#19	3840,E	0-2.5 2.5-3.5*	Coarse gravel, some cobbles in a silty sandy matrix (road fill). Spotty slag fill.
	#20	4040,W	0-0.5 0.5-1.0 1.0-2.0*	Recent gravel road bed. Brown silty gravel (former road bed). Slag, typical.
CR-05	#21	4240,E	0-0.25 0.25-1.0 1.0-3.7*	Asphalt Brown silty gravel road bed. Slag, typical.

\* Bottom of test pit - natural material.

\*\* Feet from Route 31, east or west side of road.

35223(5/90)/TABLE-1.RI

TABLE 1 (Continued)  
CHEW ROAD SAMPLE DESCRIPTIONS AND LOCATIONS

Sample ID	Sampling Point	Location **	Depth in Feet	Description
CR-05	#22	4440,W	0-0.5 0.5-1.0 1.0-3.0*	Asphalt Brown silty gravel road bed. Slag, typical.
	#23	4640,E	0-0.5 0.5-0.75 0.75-2.0*	Asphalt Brown silty gravel road bed. Slag, typical.
	#24	4840,W	0-0.5 0.5-1.0 1.0-3.0*	Asphalt Red/brown silty gravel road bed. Slag, typical.
	#25	5040,E	0-0.3 0.3-1.25 1.25-2.0*	Asphalt Brown silty gravel road bed. Spotty slag fill, varying thickness.
CR-06	#26	5240,W	0-0.5 0.5-1.0 1.25-2.0*	Asphalt Brown silty gravel road bed. Spotty slag fill, varying thickness.
	#27	5440,E	0-0.3 0.3-1.0 1.0-2.0*	Asphalt Brown silty gravel road bed. Slag, typical.
	#28	5640,W	0-0.3 0.3-1.0 1.0-3.0*	Asphalt Brown silty gravel fill. Slag, typical.

\* Bottom of test pit - natural material.

\*\* Feet from Route 31, east or west side of road.

35223(5/90)/TABLE-1.RI

TABLE 1 (Continued)  
CHEW ROAD SAMPLE DESCRIPTIONS AND LOCATIONS

Sample ID	Sampling Point	Location **	Depth in Feet	Description
CR-06	#29	5840,E	0-0.5 0.5-1.0 1.0-1.5*	Asphalt Brown silty gravel road bed. Slag, typical.
	#30	6040,W	0-0.7 0.7-2.7*	Asphalt Slag, typical.
CR-07	#31	6240,E	0-0.5 0.5-1.0 1.0-1.5*	Asphalt Brown silty gravel road bed. Spotty slag fill, varying thickness.
	#32	6440,W	0-0.4 0.4-0.7 0.7-2.2*	Asphalt Brown silty gravel road bed. Slag, typical.
	#33	6640,E	0-0.3 0.3-1.8 1.8-2.3*	Asphalt Brown silty gravel fill (road bed). Slag, typical.
	#34	6840,W	0-0.3 0.3-0.7 0.7-3.7*	Asphalt Brown silty gravel (road bed). Slag, typical.

\* Bottom of test pit - natural material.

\*\* Feet from Route 31, east or west side of road.

35223(5/90)/TABLE-1.RI

The analysis performed was for TCLP metals only. Previous investigations had determined that no organic contaminants were present, and the nature of the material is such that only metals would be expected. Samples were submitted, under proper chain-of-custody procedures, to IEA Laboratories, Inc., of Monroe, Connecticut for analysis.

Sampling locations were restored to approximately pre-existing conditions by backfilling of excavated materials, and tamping in lifts with the backhoe bucket and a gas-powered tamper.

#### 4.0 ANALYTICAL RESULTS

A summary of the analytical results obtained from all samples is presented in Table 2.

Of the eight metals on the TCLP list, only two (chromium and barium) were present above detection levels. The concentrations of barium ranged from 0.220 mg/l (ppm) to 0.523 mg/l (ppm). These are all well below the regulatory limit of 100.0 mg/l defining hazardous waste. The concentrations of chromium ranged from 0.528 mg/l to 2.210 mg/l, all below the regulatory limit of 5.0 mg/l.

TABLE 2

CHEW ROAD  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) - METALS  
ANALYTICAL RESULTS

SAMPLE ID		CR-01	CR-02	CR-03	CR-04	CR-05	CR-06	CR-07
SAMPLE TYPE		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
COLLECTION DATE		9/9/91	9/9/91	9/9/91	9/9/91	9/10/91	9/10/91	9/10/91
PARAMETER	TYPE							
ARSENIC	TCLP	ND	ND	ND	ND	ND	ND	ND
BARIUM	TCLP	220	376	282	252	288	523	327
CADMIUM	TCLP	ND	ND	ND	ND	ND	ND	ND
CHROMIUM	TCLP	2210	1620	1320	967	738	528	813
LEAD	TCLP	ND	ND	ND	ND	ND	ND	ND
MERCURY	TCLP	ND	ND	ND	ND	ND	ND	ND
SELENIUM	TCLP	ND	ND	ND	ND	ND	ND	ND
SILVER	TCLP	ND	ND	ND	ND	ND	ND	ND

All results reported in  $\mu\text{g/L}$  (ppb) unless otherwise specified.

ND=Not Detected

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

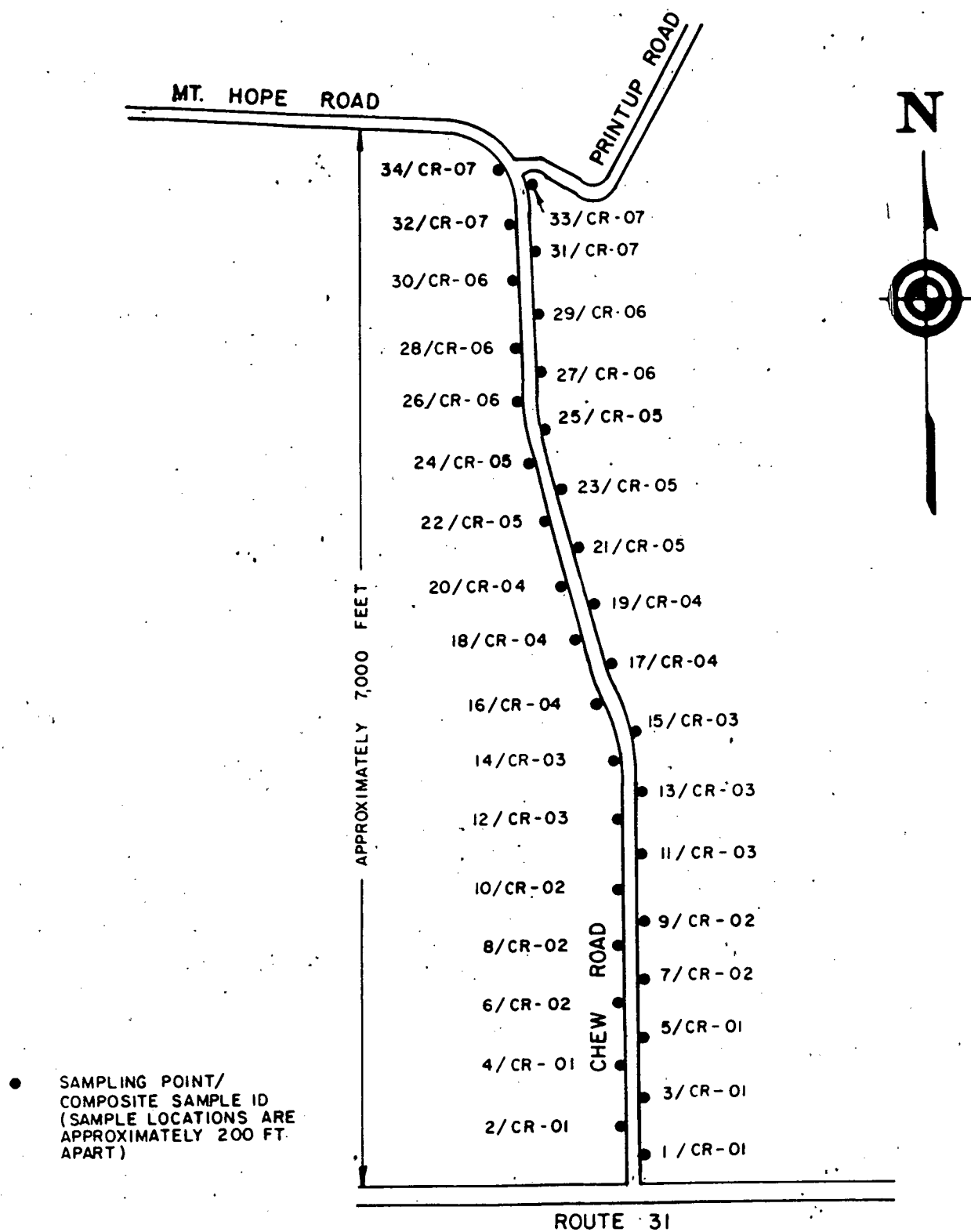
Based on the analytical data generated from this sampling program, chromium is found to be the only contaminant of concern on the TCLP metals list. Barium levels were low enough that they do not represent a contaminant of concern. The maximum concentration of the chromium in the TCLP samples is less than half of the regulatory limit, thus showing the slag material in the road bed to be non-hazardous. It is considered, however, to be a solid, industrial waste since it is a solid waste generated by industrial processes [6 NYCRR 360-1.2(b)(80)].

Personnel from the hazardous waste section of the Region 9 NYSDEC have confirmed that the levels found in these samples are well under the regulatory limits, and therefore, it would not be required that the material be disposed of in a hazardous waste landfill (see Appendix B). Personnel from the solid waste section of Region 9 NYSDEC have expressed the opinion that this slag material should be disposed of in a lined solid-waste facility, not an unlined C&D landfill facility (see Appendix B). In any case, disposal of this slag material should be coordinated with regional personnel at NYSDEC.

Contacts with various regional and local landfills have come up with a range in price per ton for disposal of this slag material from less than \$50 to \$150 (see Appendix B). IWS Schultz C&D landfill in Cheektowaga quoted a price over the phone of \$50 per ton, and indicated a lower price can be negotiated for the large volume involved. However, this is not a lined facility and may not meet with approval by NYSDEC. Browning-Ferris Industries (BFI) quoted a preliminary price of \$50 per ton for disposal in their non-hazardous industrial waste landfill. CID Landfill quoted a price of \$70 per ton, and Chemical Waste Management quoted a price of \$150 per ton for disposal at their Model City facility. All prices assume transportation by NYSDOT.



At the NYSDOT-estimated quantity of 44,000 yd<sup>3</sup> of material (one cubic yard approximates one ton) and the lowest rate of \$50 per ton for disposal, cost of disposal will be \$2.2 million plus transportation costs. At the highest rate of \$150 per ton, the cost would be \$6.6 million. Note that this quantity estimate includes all excavation associated with the project, including ditch cleaning, reshaping, and removal of all embankment material down to the original grade. Of course, much of this is not slag, and could be separated and possibly re-used on site, or disposed of in any C&D landfill facility.



A-4096

## APPENDIX A

### LABORATORY REPORT



an environmental testing company

200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 261-4458  
FAX (203) 268-5348

**RECEIVED**  
URS CONSULTANTS

OCT 15 1991

JOB# 35223.11.1150

HT  
RF  
File

## SAMPLE DATA PACKAGE

CLIENT:	URS CONSULTANTS
PROJECT ID:	CHEW ROAD NYSDOT
P.O.#	35223.11
SDG#	Z1799
IEA ID:	30910-1799

Miramar,  
Florida  
305-989-0928

Schaumburg,  
Illinois  
708-705-0740

N. Billerica,  
Massachusetts  
617-272-5212

Whippany,  
New Jersey  
201-428-8181

Cary,  
North Carolina  
919-677-0090

Essex Junction,  
Vermont  
802-878-5138

Client : URS  
Project ID : Chew Road (NYS DOT)  
IEA Project Mgr : 1  
Rush: Y (N) TAT: 28 Due Date: \_\_\_\_\_

## TESTS

TLLP  
MTLS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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Page 1 b1

Protocols :  
SW846

Deliverables:  
Level I  
NYSDEC ASI  
Form 1

[illegible]

\* Matrix Codes

A - Air      C - Complex      S - Soil      W - Wipe      FB - Field Blank  
AQ - Aqueous      D - Drum Waste      SL - Sludge      O - Other      TB - Trip Blank

Rec'd In Lab By :

**Date/Time :**

**Signature :**

Incoming Seal 108: D 12257

**Intact On Lab Receipt?**

Client : LRS

Project ID : Chew Road

IEA Project Mgr : \_\_\_\_\_

Rush: YN TAT: 28d Due Date: \_\_\_\_\_

## TESTS

TUP  
MTLS

**Bottle  
Type &  
Preser-  
vative**

150 in  
wide  
mouth

Page 1 of 1

Protocols :  
SW 846

Deliverables:  
Level I  
NYSDEL ASP  
Form 1

### Comments

[illegible]

\* Matrix Codes

A - Air	C - Complex	S - Soil	Y - Yipe	FB - Field Blank
AQ - Aqueous	D - Dred Waste	SL - Sludge	O - Other	IB - Trip Blank

Rec'd In Lab By : Christopher White  
Date/Time : 9/11/91 / 9:45  
Signature : [Signature]

Incoming Seal ID#: 2A  
Intact On Lab Receipt? Y N

SMO Forms : present / ~~absent~~

Sample Custodian: CPM / [Signature] Date/Time: 9/10/91 11:30  
(print) (signature)

SMO Forms : present / absent

Sample #s: 005-007  
Location: 37

Location: 37  
(signature) Cheryl T. Lee Date/Time: 9/11/91 9:45

[illegible]



005



an environmental testing company

200 Monroe Turnpike  
 Monroe, Connecticut 06468  
 (203) 261-4458  
 FAX (203) 268-5348

CHAIN OF CUSTODY  
 ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 3091-1799 Sample Numbers 001-007

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep

Jadige Krawczyk

9/23/91

ICP/FLME

FURN

Shirley Nickerson / Anne Monaghan  
 Chemist

10/2/91 - 10/3/91  
 Date(s)

MERCURY

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis

Jim D. Rehl

10/4/91

ICP

FLAME

FURN

Anne Monaghan  
 Chemist

10/3/91  
 Date(s)

MERCURY

I have reviewed and authorize the release of this job:

Complete

Debbie M. Trigue  
 Supervisor

10/11/91  
 Date

Batch Assignment



## URS CONSULTANTS

### CHAIN OF CUSTODY RECORD

[illegible]

**AIRBILL**  
PACKAGE  
TRACKING NUMBER

3220371383

QUESTIONS? CALL 800-238-5355 TOLL FREE.

3220371383

**RECIPIENT'S COPY**

Date  
8/10/91

(Your Name) Please Print

D. SHELDON

Your Phone Number (Very Important)

(715) 4656-5636

To (Recipient's Name) Please Print

J. DUBKAKIS

Recipient's Phone Number (Very Important)

Company

URS CONSULTANTS INC.

Street Address

282 DELAWARE AVE 2ND FL

City

BUFFALO

State

NY

ZIP Required

1 4 2 0 2

Company

IEA, INC.

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)

200 MONROE TURNPIKE

City

MONROE, CONNECTICUT

State

ZIP Required

06468

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.)

35223.

IF HOLD FOR PICK-UP, Print FEDEX Address Here

Street Address

City

State

ZIP Required

PAYMENT ☐ Bill Sender ☐ Bill Recipient's FedEx Acct. No. ☐ Bill 3rd Party FedEx Acct. No. ☐ Bill Credit Card

☐ Cash Check

**SERVICES**  
(Check only one box)

Priority Overnight  
(Delivery by next business morning)

11 ☒ YOUR PACKAGING

16 ☐ FEDEX LETTER

12 ☐ FEDEX PAK \*

13 ☐ FEDEX BOX

14 ☐ FEDEX TUBE

Economy Two-Day  
(Delivery by second business day)

30 ☐ ECONOMY

Standard Overnight  
(Delivery by next business afternoon)

51 ☐ YOUR PACKAGING

56 ☐ FEDEX LETTER \*

52 ☐ FEDEX PAK \*

53 ☐ FEDEX BOX

54 ☐ FEDEX TUBE

Government Overnight  
(Delivery by next business day)

46 ☐ GOVT LETTER

41 ☐ GOVT PACKAGE

Freight Service  
(For Extra Large or any package over 70 lbs.)

70 ☐ OVERSIZED FREIGHT \*\*

80 ☐ TWO-DAY FREIGHT \*\*

\*Declared Value Limit \$100  
\*\*Call to delivery schedule

**DELIVERY AND SPECIAL HANDLING**  
(Check services required)

1 ☐ HOLD FOR PICK-UP (P.O. Box only)

2 ☒ DELIVER WEEKDAY

3 ☐ DELIVER SATURDAY (Extra charges apply outside of all locations)

4 ☐ DANGEROUS GOODS (Extra charges)

5 ☐ DRY ICE

6 ☐ OTHER SPECIAL SERVICE

7 ☐ SATURDAY PICK-UP (Extra charges)

8 ☐ HOLIDAY DELIVERY (Extra charges)

9 ☐ HOLIDAY DELIVERY (Extra charges)

10 ☐ HOLIDAY DELIVERY (Extra charges)

11 ☐ HOLIDAY DELIVERY (Extra charges)

12 ☐ HOLIDAY DELIVERY (Extra charges)

WEIGHT  
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oz

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Emp. No.

Date

Federal Express Use

Base Charges

Declared Value Charge

Other 1

Other 2

Total Charges

REVISION DATE 4/91

PART 8137204 NCREC 8/91

FORMAT 4082

082

© 1990-91 F.E.C.

PRINTED IN

U.S.A.

Signature

FedEx

Emp. No.

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## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA/CT

Contract: \_\_\_\_\_

CR-01Lab Code: IEA

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: 21799Matrix (soil/water): waterLab Sample ID: 1799001Level (low/med): lowDate Received: 9/10/91\* Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	300 <del>XL</del>	W		P
7440-39-3	Barium	220			P
7440-41-7	Beryllium				
7440-43-9	Cadmium	10.0 <del>XL</del>	W		P
7440-70-2	Calcium				
7440-47-3	Chromium	2210			P
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	100 <del>XL</del>	W		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	2.0 <del>XL</del>	W		CP
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	500 <del>XL</del>	W		P
7440-22-4	Silver	10.0 <del>XL</del>	W		P
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

all corrections  
by DMJ/migue  
10/11/91

Color Before: YClarity Before: C1

Texture: \_\_\_\_\_

Color After: CClarity After: C1

Artifacts: \_\_\_\_\_

Comments:

TCLP LEACHATE

## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA/CT

Contract: \_\_\_\_\_

CR-02Lab Code: IEA

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: 21799Matrix (soil/water): waterLab Sample ID: 1799002Level (low/med): lowDate Received: 9/10/91\* Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<u>200 M</u>	<u>U</u>		<u>P</u>
7440-39-3	Barium	<u>376</u>			<u>P</u>
7440-41-7	Beryllium				
7440-43-9	Cadmium	<u>10.0 M</u>	<u>U</u>		<u>P</u>
7440-70-2	Calcium				
7440-47-3	Chromium	<u>1620</u>			<u>P</u>
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<u>100 M</u>	<u>U</u>		<u>P</u>
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	<u>2.0 M</u>	<u>U</u>		<u>CK</u>
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	<u>500 M</u>	<u>U</u>		<u>P</u>
7440-22-4	Silver	<u>10.0 M</u>	<u>U</u>		<u>P</u>
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

*all corrections  
by DMJ/migue  
10/11/91*

Color Before: YClarity Before: C1

Texture: \_\_\_\_\_

Color After: CClarity After: C1

Artifacts: \_\_\_\_\_

Comments:

TCLP LEACHATE

## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA/CT

Contract: \_\_\_\_\_

CR-03Lab Code: IEA

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: 21799Matrix (soil/water): waterLab Sample ID: 1799003Level (low/med): lowDate Received: 9/10/91‡ Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<u>300X</u>	<u>U</u>		<u>P</u>
7440-39-3	Barium	<u>282</u>			<u>P</u>
7440-41-7	Beryllium				
7440-43-9	Cadmium	<u>10.0X</u>	<u>U</u>		<u>P</u>
7440-70-2	Calcium				
7440-47-3	Chromium	<u>1320</u>			<u>P</u>
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<u>100X</u>	<u>U</u>		<u>P</u>
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	<u>2.0X</u>	<u>U</u>		<u>EV</u>
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	<u>500X</u>	<u>U</u>		<u>P</u>
7440-22-4	Silver	<u>10.0X</u>	<u>U</u>		<u>P</u>
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

*all corrections  
by DM Drizguel  
10/11/91*

Color Before: YClarity Before: C1

Texture: \_\_\_\_\_

Color After: CClarity After: C1

Artifacts: \_\_\_\_\_

Comments:

TCLP LEACHATE

## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: \_\_\_\_\_

CR-04Lab Code: IEA

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: 21799Matrix (soil/water): waterLab Sample ID: 1799004Level (low/med): lowDate Received: 9/10/91† Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<u>300</u>	<u>U</u>		<u>P</u>
7440-39-3	Barium	<u>252</u>			<u>P</u>
7440-41-7	Beryllium				
7440-43-9	Cadmium	<u>10.0</u>	<u>U</u>		<u>P</u>
7440-70-2	Calcium				
7440-47-3	Chromium	<u>967</u>			<u>P</u>
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<u>100</u>	<u>U</u>		<u>P</u>
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	<u>2.0</u>	<u>U</u>		<u>CV</u>
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	<u>500</u>	<u>U</u>		<u>P</u>
7440-22-4	Silver	<u>10.0</u>	<u>U</u>		<u>P</u>
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

*all corrections  
by DM Iprisque  
10/11/91*

Color Before: CClarity Before: C1

Texture: \_\_\_\_\_

Color After: CClarity After: C1

Artifacts: \_\_\_\_\_

Comments:

TCLP LEACHATE



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## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: \_\_\_\_\_

CR-05Lab Code: IEA

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: 21799Matrix (soil/water): waterLab Sample ID: 1799005Level (low/med): lowDate Received: 9/10/91

† Solids: \_\_\_\_\_

0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<u>300 ug</u>	<u>u</u>		<u>P</u>
7440-39-3	Barium	<u>288</u>			<u>P</u>
7440-41-7	Beryllium				
7440-43-9	Cadmium	<u>10.0 ug</u>	<u>u</u>		<u>P</u>
7440-70-2	Calcium				
7440-47-3	Chromium	<u>738</u>			<u>L</u>
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<u>100 ug</u>	<u>u</u>		<u>P</u>
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	<u>2.0 ug</u>	<u>u</u>		<u>u</u>
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	<u>500 ug</u>	<u>u</u>		<u>P</u>
7440-22-4	Silver	<u>10.0 ug</u>	<u>u</u>		<u>P</u>
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

all corrections  
by DM Jirguel  
10/11/91

Color Before: CClarity Before: C1

Texture: \_\_\_\_\_

Color After: CClarity After: C1

Artifacts: \_\_\_\_\_

Comments:

TCLP LEACHATE

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## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: \_\_\_\_\_

CR-06Lab Code: IEA

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: 21799Matrix (soil/water): waterLab Sample ID: 1799006Level (low/med): lowDate Received: 9/10/91† Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<u>300.0</u>	<u>U</u>		<u>P</u>
7440-39-3	Barium	<u>522</u>			<u>P</u>
7440-41-7	Beryllium				
7440-43-9	Cadmium	<u>10.00</u>	<u>U</u>		<u>P</u>
7440-70-2	Calcium				
7440-47-3	Chromium	<u>528</u>			<u>P</u>
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<u>100.0</u>	<u>U</u>		<u>P</u>
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	<u>2.00</u>	<u>U</u>		<u>P</u>
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	<u>50.0</u>	<u>U</u>		<u>P</u>
7440-22-4	Silver	<u>10.00</u>	<u>U</u>		<u>P</u>
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

*all corrections  
by DM Mergul  
10/11/91*

Color Before: CClarity Before: C1

Texture: \_\_\_\_\_

Color After: CClarity After: C1

Artifacts: \_\_\_\_\_

Comments:

TCLP LEACHATE

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## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: \_\_\_\_\_

CR-07Lab Code: IEA

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: 21799Matrix (soil/water): waterLab Sample ID: 1799007Level (low/med): lowDate Received: 9/10/91† Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<u>300</u>	<u>U</u>		<u>P</u>
7440-39-3	Barium	<u>327</u>			<u>P</u>
7440-41-7	Beryllium				
7440-43-9	Cadmium	<u>10.0</u>	<u>U</u>		<u>P</u>
7440-70-2	Calcium				
7440-47-3	Chromium	<u>813</u>			<u>P</u>
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<u>100</u>	<u>U</u>		<u>P</u>
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	<u>2.0</u>	<u>U</u>		<u>P</u>
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	<u>500</u>	<u>U</u>		<u>P</u>
7440-22-4	Silver	<u>10.0</u>	<u>U</u>		<u>P</u>
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

all corrections  
by DM Iriguel  
10/11/91

Color Before: CClarity Before: C1

Texture: \_\_\_\_\_

Color After: CClarity After: C1

Artifacts: \_\_\_\_\_

Comments:

TCLP LEACHATE

## QC ID : \_\_\_\_\_

QC ID : \_\_\_\_\_

QC ID : 1837001 TCP

\*RPD : Relative Percent Difference

## U.S. EPA - CLP

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.,

Lab Name: IEA

Contract: \_\_\_\_\_

TCLP BlankLab Code: IEA

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: 21799Matrix (soil/water): waterLab Sample ID: TCLP BlankLevel (low/med): lowDate Received: 9/10/91† Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<u>300X</u>	<u>U</u>		<u>P</u>
7440-39-3	Barium	<u>200X</u>	<u>U</u>		<u>P</u>
7440-41-7	Beryllium				
7440-43-9	Cadmium	<u>10.0X</u>	<u>U</u>		<u>P</u>
7440-70-2	Calcium				
7440-47-3	Chromium	<u>10.0X</u>	<u>U</u>		<u>P</u>
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<u>100X</u>	<u>U</u>		<u>Z</u>
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	<u>2.0X</u>	<u>U</u>		<u>CK</u>
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	<u>50.0X</u>	<u>U</u>		<u>P</u>
7440-22-4	Silver	<u>10.0X</u>	<u>U</u>		<u>P</u>
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

all corrections  
by DM Drizgul  
10/11/91

Color Before: CClarity Before: C1

Texture: \_\_\_\_\_

Color After: LClarity After: C1

Artifacts: \_\_\_\_\_

Comments:

TCLP LEACHATE

## **APPENDIX B**

### **COMMUNICATIONS WITH REGULATORY AGENCIES AND DISPOSAL FACILITIES**

JOB NO. 35223.11.30000

JOB NAME NYS DOT / CHEW RD.

## MEMO OF TELECON

DATE 10/25/91

TELEPHONE 847-4585

PERSON CALLING V. U. Ulofanger

PERSON CALLED Rick Fisher

REPRESENTING URS

REPRESENTING NYSDEC Region 9

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED:

disposal restrictions

TEXT OF TELECON

No restrictions on disposal as long as the  
regulatory limits are not exceeded

2.2 ppm Cr

0.5 ppm Ba

} well under limits and  
no problem

If Cr. was closer, say 4.5 ppm, then there  
could be a problem. Can be used for  
another road.

TCLP will be part of NYS reg as of  
next year - see draft Part 376  
(but not Toxicity Characteristics)

Solid waste people to call:

Kevin Harty  
Bob Mitrey

JOB NO. 35223.11JOB NAME NYSDOT / Chem id**MEMO OF TELECON**DATE 10/28/91TELEPHONE 847-4585PERSON CALLING V. WolfangerPERSON CALLED Bob MitreyREPRESENTING URSREPRESENTING NYSDOT - Solid Waste

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED:

disposal of steel slag / road bed**TEXT OF TELECON**

Sampling plan should have been ~~not~~ approved by DEC so there would be no question.

C&D landfill may not be best place to dispose of this because slag does leach and this IWS Schell is not lined.

if paperwork goes through landfill, make sure it is done properly, because if there are any problems, they come back to the generator not the landfill.

I said I would be in contact with him at a later point after decisions had been made.

cc: H. Russell



JOB NO. 35223.11

JOB NAME NYS DOT / Chew Rd.

**MEMO OF TELECON**

DATE 10/25/91

TELEPHONE \_\_\_\_\_

PERSON CALLING VH Woffinger

PERSON CALLED Bob Vincent

REPRESENTING URS

REPRESENTING W.S. Schultz's C&D

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: Landfill

**TEXT OF TELECON**

Approved C&D landfill

\$50/ton, but call main office for  
break in price for 15,000 y<sup>3</sup>

Need letter from DEC to OK disposal of

Call Sam Ricotta 852-2345 at main office.

JOB NO. 35223.00

JOB NAME Chew Rd

**MEMO OF TELECON**

DATE 11/6/91

TELEPHONE \_\_\_\_\_

PERSON CALLING V. Wolfanger

PERSON CALLED Bob Anthony

REPRESENTING URS

REPRESENTING BFI - Kenmore Ave

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: price quote  
slag disposal

**TEXT OF TELECON**

\$50/ton - must be landfilled -  
cannot be used for cover  
according to analysis.

If anything changes for the better, he will  
call again.

JOB NO. 35223.11

JOB NAME

MS001 / Clear Rd.

**MEMO OF TELECON**

DATE	10/28/91
PERSON CALLING	VN Hoffmeyer
REPRESENTING	URS
PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED:	Still slag / road bed disposal prices
PERSON CALLED	Tom Mackenzie
REPRESENTING	BID Landfill
TELEPHONE	496-5514
TEXT OF TELECON	Still slag / road bed 2.2 ppm C

#70/ton for 15,000 y<sup>3</sup>  
 needs to clean DEC who may want reduction  
 will take about 6 weeks  
 Sending packet in the mail.



**Chemical Waste Management, Inc.**

Eastern Region  
100 Nassau Park Boulevard  
Princeton, New Jersey 08540  
609/243-7800

October 31, 1991

URS CONSULTANTS  
282 Delaware Avenue  
Buffalo, NY 14202  
Attn: Ms. Virginia Wolfinger

Dear Ms. Wolfinger:

Chemical Waste Management is pleased to provide you with a quotation for disposal of your Road Bed. Disposal will take place at the Model City facility located in Model City, NY. Pricing will be as follows:

Disposal Pricing: \$150.00 per ton - Secure Landfill.  
Plus applicable fees & taxes.

Pricing is contingent upon submission and approval of a representative sample of the waste material(s) and completion of a Chemical Waste Management's Generator's Waste Profile Sheet.

Chemical Waste Management wishes to thank you for allowing us to quote on your disposal. Please feel free to contact me at (609) 243-7914 with any questions you might have regarding this matter. Pricing is good for 30 days from the date of this letter.

Sincerely,  
Chemical Waste Management, Inc.

*Heather A. Bird*

Heather A. Bird  
Customer Service Representative  
HAB/rll

cc: Mike Scarano  
File

RECEIVED

NOV 4 1991

35223.11

JOB NO. 35223.01

JOB NAME Chew Rd

**MEMO OF TELECON**

DATE 10/28/91 TELEPHONE 282-2676

PERSON CALLING VH Wolfgang PERSON CALLED Nick Morreale

REPRESENTING URS REPRESENTING CECOS

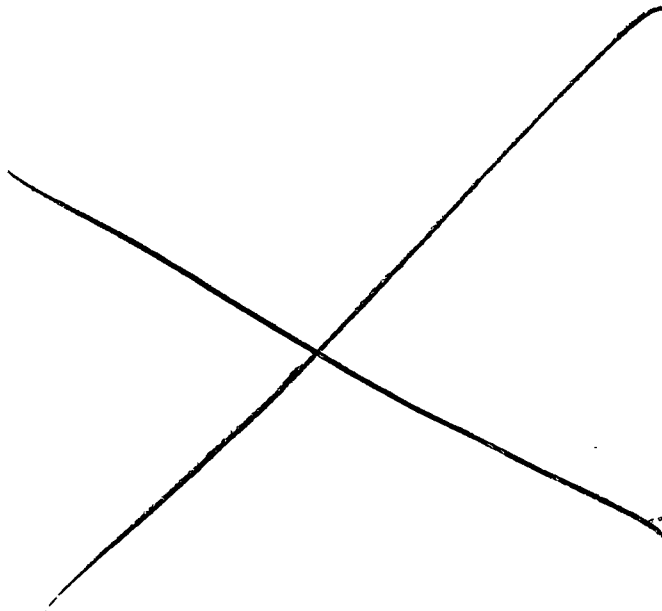
PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: \_\_\_\_\_

**TEXT OF TELECON**

Cell A is non-hazardous waste  
but cannot accept that volume of  
waste (15,000 y<sup>3</sup>).

Will send info packet on disposal of  
drummed cuttings, decon water.

CC: \_\_\_\_\_



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JUN 22 1992  
N.Y.S. DEPT. OF  
ENVIRONMENTAL CONSERVATION  
REGION 9

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