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Rocky Flats
Environmental Technology Site
Industrial Area
Data Summary Report

September 2000

2

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 DATA SUMMARY DESCRIPTION 1

Location 4

Validation Qualifiers 4

Association with Validated Laboratory Batches 4

Nondetected Results Where Negative Bias May Be Present 4

Approved/Controlled Documents Used for Field Sampling 4

Multiple-Result Records 9

Analytical Data 9

3.0 GEOGRAPHIC INFORMATION SYSTEM MAPS 9

List of Tables

Table 1 — Database Field Name Definitions 2

Table 2 — Number of Records by IHSS and Analytical Suite 13

Table 3 — Test Method Names 15

List of Figures

Figure 1 — Data Quality Filter for the Industrial Area Sampling and Analysis Plan and Comprehensive Risk Assessment 5

Figure 2 — Industrial Area Data Quality Filter – Subsurface Soil 6

Figure 3 — Industrial Area Data Quality Filter – Surface Soil 7

Figure 4 — Industrial Area Strategy Groups and Individual Hazardous Substance Sites 8

Figure 5 — Multiple Record Screen 10

Figure 6 — Entity Relationship Diagram 11

List of Maps

Map 1 — IA Group 000-1, IHSS 101, 207 Solar Evaporation Ponds 16

Map 2 — IA Group 000-1, IHSS 149.1, Effluent Pipe 17

Map 3 — IA Group 000-1, IHSS 149.2, Effluent Pipe 18

Map 4 — IA Group 000-1, IHSS 165, Triangle Area 19

Map 5 — IA Group 000-1, IHSS 176, S&W Contractor Storage Yard 20

Map 6 — IA Group 000-2, IHSS 121, Tank 31 - OPWL 21

3

Map 7 — IA Group 000-2, IHSS 147.1, Process Waste Line Leaks....22
Map 8 — IA Group 000-2, IHSS 162, Radioactive Site 700 Area Site #2....23
Map 9 — IA Group 000-3, IHSS 132, Radioactive Site 700 Area Site #4....24
Map 10 — IA Group 000-3 IHSS 143, Building 771 Outfall....25
Map 11 — IA Group 000-3, IHSS 190, Caustic Leak Central Avenue Ditch....26
Map 12 — IHSS 121, OPWL Tanks....27
IA Group 000-2, IHSS 121, Tank 29 - OPWL....27
IA Group 700-3, IHSS 121, Tank 9 - OPWL - Two 22,500-Gallon Concrete Laundry Tanks....27
IA Group 700-3, IHSS 121, Tank 10 - OPWL - Two 4,500-Gallon Process Waste Tanks....27
IA Group 700-4, IHSS 121, Tank 14 - OPWL - 30,000-Gallon Concrete Underground Storage Tank (68)....27
IA Group 700-4, IHSS 121, Tank 16 - OPWL - Two 30,000-Gallon Concrete Underground Storage Tanks (66, 67)....27
IA Group 700-7, IHSS 121, Tank 19 - OPWL - Two 1,000-Gallon Concrete Sumps....27
IA Group 700-7, IHSS 121, Tank 20 - OPWL - Two 8,000-Gallon Concrete Sumps....27
IA Group 700-7, IHSS 121, Tank 38 - OPWL - 1,000-Gallon Steel Tanks....27
Map 13 — IA Group 000-4, IHSS 148, Waste Spills....28
Map 14 — IA Group 300-1, IHSS 134(N), Lithium Metal Destruction Site....29
Map 15 — IA Group 300-1, IHSS 171, Solvent Burning Ground....30
Map 16 — IA Group 300-1 IHSS 134(S), Lithium Metal Destruction Site....31
Map 17 — IA Group 400-3, IHSS 136.1, Cooling Tower Pond West of Building 444....32
Map 18 — IA Group 400-3, IHSS 136.2, Cooling Tower Pond East of Building 444....33
Map 19 — IA Group 400-3, IHSS 208, Inactive Buildings 444/447 Waste Storage Area....34
Map 20 — IHSS 121, OPWL Tanks....35
IA Group 400-3, IHSS 121, Tank 4 – OPWL - Process Waste Pits....35
IA Group 400-3, PAC IHSS 121, Tank 5 – OPWL - Process Waste Tanks....35
IA Group 400-3, IHSS 121, Tank 6 – OPWL - Process Waste Floor Sump and Foundation Drain Floor35
IA Group 000-3, IHSS 121, Tank 1 – OPWL - Underground Stainless Steel Waste Storage Tank....35
IA Group 400-8, IHSS 121, Tank 2 - Concrete Waste Storage Tank....35
IA Group 400-8, IHSS 121, Tank 3 - Concrete Waste and Steel Waste Storage Tanks....35
Map 21 — IA Group 400-6, IHSS 157.2, Radioactive Site South Area....36
Map 22 — IA Group 400-7, IHSS 157.1, Radioactive Site North Area....37
Map 23 — IA Group 400-7, IHSS 187, Sulfuric Acid Spill....38

4

Map 24 — IHSS 121, OPWL Tanks 39
IA Group 800-1, IHSS 121, Tank 23 - OPWL 39
IA Group 800-3, IHSS 121, Tank 25 - OPWL - 750-Gallon Steel Tanks (18, 19) 39
IA Group 800-3, IHSS 121, Tank 26 - OPWL - 750-Gallon Steel Tanks (24, 25, 26) 39
IA Group 800-4, IHSS 121, Tank 21 - OPWL - 250-Gallon Concrete Sump 39
IA Group 800-4, IHSS 121, Tank 22 - OPWL - Two 250-Gallon Steel Tanks 39
IA Group 800-6, IHSS 121, Tank 28 - Two 1,000-Gallon Concrete Sumps 39
IA Group 800-6, IHSS 121, Tank 40 - Two 400-Gallon Underground Concrete Tanks 39
Map 25 — IA Group 400-10, IHSS 120.2, Fiberglass Area West of Building 664 40
Map 26 — IA Group 400-10, IHSS 161, Radioactive Site Building 664 41
Map 27 — IA Group 500-1, IHSS 186, Valve Vault 12 42
Map 28 — IA Group 500-1, IHSS 117.1, North Site Chemical Storage 43
Map 29 — IA Group 500-2, IHSS 158, Radioactive Site Building 551 44
Map 30 — IA Group 500-3, IHSS 159, Radioactive Site Building 559 45
Map 31 — IHSS 121, OPWL Tanks 46
IA Group 500-3, IHSS 121, Tank 33 - OPWL - Process Waste Tank 46
IA Group 500-3, IHSS 121, Tank 34 - OPWL - Process Waste Tank 46
IA Group 500-3, IHSS 121, Tank 35 - OPWL - Building 561 Concrete Floor Sump 46
IA Group 500-3, IHSS 121, Tank 7 - OPWL - Active Process Waste Pit 46
IA Group 700-2, IHSS 121, Tank 11 - OPWL - Building 731 46
IA Group 700-2, IHSS 121, Tank 30 - OPWL - Building 731 46
IA Group 700-3, IHSS 121, Tank 18 - OPWL - Concrete Laundry Waste Lift Sump 46
Map 32 — IA Group 500-4, IHSS 117.2, Middle Site Chemical Storage 47
Map 33 — IA Group 600-3, IHSS 120.1, Fiberglassing Area North of Building 664 48
Map 34 — IA Group 600-4, IHSS 160, Radioactive Site Building 444 Parking Lot 49
Map 35 — IHSS 121, OPWL Tanks 50
IA Group 800-2, IHSS 121, Tank 24 - OPWL - Seven 2,700-Gallon Steel Process Waste Tanks 50
IA Group 800-2, IHSS 121, Tank 32 - OPWL - 131,160-Gallon Underground Concrete Secondary Containment Sump 50
IA Group 800-2, IHSS 121, Tank 39 - OPWL - Four 250-Gallon Steel Process Waste Tanks 50
Map 36 — IA Group 700-3, IHSS 118.1, Multiple Solvent Spills West of Building 730 51
Map 37 — IA Group 700-3, IHSS 131, Radioactive Site 700 Area Site No.1 52
Map 38 — IA Group 700-3, IHSS 150.2(S), Radioactive Site West of Buildings 771 and 776 53

5

Map 39 — IA Group 700-3, IHSS 121, Tank 9 and Tank 10 - OPWL 54
Map 40 — IA Group 700-3, IHSS 144(N), Sewer Line Overflow 55
Map 41 — IA Group 700-3 IHSS 144(S), Sewer Line Overflow 56
Map 42 — IA Group 700-4, IHSS 150.2(N), Radioactive Site West of Buildings 771 and 776 57
Map 43 — IA Group 700-4, IHSS 124.1, 30,000-Gallon Tank (Tank #68) 58
IA Group 700-4, IHSS 124.2, 14,000-Gallon Tank (Tank #66) 58
IA Group 700-4, IHSS 124.3, 14,000-Gallon Tank (Tank #67) 58
IA Group 700-4, IHSS 125, Holding Tank (Tank #66) 58
Map 44 — IHSS 121, OPWL Tanks 59
IA Group 700-4, IHSS 121, Tank 8 - OPWL 59
IA Group 700-4, IHSS 121, Tank 12 - OPWL - Two Abandoned 20,000-Gallon Underground Concrete Tanks 59
IA Group 700-4, IHSS 121, Tank 14 - OPWL - 30,000-Gallon Concrete Underground Storage Tank (68) 59
IA Group 700-4, IHSS 121, Tank 13 - OPWL – 600-Gallon Abandoned Sump 59
IA Group 700-4, IHSS 121, Tank 15 - OPWL - Two 7,500-Gallon Process Waste Tanks (34W, 34E) ..59
IA Group 700-4, IHSS 121, Tank 16 – OPWL – Two 30,000-Gallon Concrete Underground Storage Tanks (66, 67) 59
IA Group 700-4, IHSS 121, Tank 17 - OPWL - Four Concrete Process Waste Tanks (30, 31, 32, 33) ..59
IA Group 700-4, IHSS 121, Tank 36 - OPWL - Steel Carbon Tetrachloride Sump 59
IA Group 700-4 IHSS 121, Tank 37 - OPWL - Steel-Lined Concrete Sump 59
Map 45 — IA Group 700-4, IHSS 139.2, Caustic/Acid Spills Hydrofluoric Acid Tanks 60
Map 46 — IA Group 700-4, IHSS 150.1, Radioactive Site North of Building 771 61
Map 47 — IA Group 700-4, IHSS 150.3, Radioactive Site Between Buildings 771 and 774 62
Map 48 — IA Group 700-6, IHSS 137, Cooling Tower Blowdown Buildings 712 and 713 63
Map 49 — IA Group 700-6, IHSS 139.1(S), Caustic/Acid Spills Hydroxide Tank Area 64
Map 50 — IA Group 700-7, IHSS 138, Cooling Tower Blowdown Building 779 65
Map 51 — IA Group 700-7, IHSS 150.8, Radioactive Site Northeast of Building 779 66
Map 52 — IA Group 700-8, IHSS 214, 750 Pad-Pondcrete/Saltcrete Storage, Unit 25 67
Map 53 — IA Group 800-4 IHSS 121, Radioactive Slab from Building 776 68
Map 54 — IA Group 800-4, IHSS 164.2, Radioactive Site 800 Area Site No. 2, Building 886 Spills 69
Map 55 — IA Group 800-6, IHSS 164.3, Radioactive Site 800 Area Site #2 Building 889 Storage Pad 70
Map 56 — IA Group 900-3 IHSS 213, Unit 15, 904 Pad Pondcrete Storage 71

6

Map 57 — IA Group 900-4&5, IHSS 175, S&W Building 980 Container Storage Facility 72
Map 58 — IA Group SW-2, IHSS 115, Original Landfill.....73
Map 59 — IA Group SW-2, IHSS 196, Water Treatment Plant Backwash Pond.....74
Map 60— White Space Areas.....75

List of Attachments

Attachment 1 — Chemical and Radiochemical Sample Results Database on Compact Disc

7

Acronyms

CD	compact disc
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CRA	Comprehensive Risk Assessment
ERD	Entity Relationship Diagram
GIS	Geographic Information System
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
OPWL	Original Process Waste Line
OU	Operable Unit
PAC	Potential Area of Concern
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFCA	Rocky Flats Cleanup Agreement
RFETS	Rocky Flats Environmental Technology Site
RFI/RI	RCRA Facility Investigation/Remedial Investigation
Site	Rocky Flats Environmental Technology Site
SME	Subject Matter Expert
SWD	Soil Water Database
UBC	Under Building Contamination

8

1.0 INTRODUCTION

The Industrial Area (IA) Data Summary Report is a compilation of available analytical data from surface and subsurface soil in the Rocky Flats Environmental Technology Site (RFETS or Site) IA. The purpose of this report is to provide a qualified set of data to use for IA data analysis. This report does not include a comparison of data to background or Rocky Flats Cleanup Agreement (RFCA) Tier I and Tier II values, nor does it include data interpretation. Data comparisons to background and RFCA Tier I and Tier II values will be included in IA Sampling and Analysis Plan (IASAP) addenda, as appropriate.

This report includes data from the Resource Conservation and Recovery Act (RCRA) Facility Investigations/Remedial Investigations (RFI/RIs) that were conducted for the following Operable Units (OUs):

- OU 8 – 700 Area
- OU 9 – Original Process Waste Lines – Outside Tanks
- OU 10 – Other Outside Closures
- OU 12 – 400/800 Areas
- OU 13 – 100 Area
- OU 14 – Radioactive Sites

Data from OU 4, Solar Evaporation Ponds, and OU 5, Woman Creek RFI/RIs, are included if the data are within the IA. Surface and subsurface data collected during other studies (investigations, remediations, drilling programs, etc.) are also included.

The IA Data Summary Report consists of three parts:

1. The Data Summary Description is a narrative that describes the structure of the overall submittal.

2. Geographic Information System (GIS) maps, on 11 x 17-inch foldouts and two plate-size figures, illustrate sample locations and analytical suites for each individual location in Individual Hazardous Substance Site (IHSSs), Potential Areas of Concern (PACs), and Under Building Contamination (UBC) Sites.

3. Attachment 1 presents radiological and chemical analytical data, in electronic format (compact disc [CD]), compiled in Microsoft Access (dbIATotal1.mdb) files.

2.0 DATA SUMMARY DESCRIPTION

The electronic data submittal (Attachment 1) consists of 723,784k unique records with 55 fields and 1,459 unique sample locations. The 55 fields are listed in Table 1. Sample types consist of surface soil and borehole (soil) media for this version of the data set. The data set will be augmented as the project progresses. The data are controlled by the RFETS IA Project through "Read-only" submittals to data users (e.g., the CD), and version control of the original data set that resides at RFETS Building 116.

9

Table 1 — Database Field Name Definitions

Field Name	Description	Definition
LOCATION_C	Location Code	The four- to eight-digit unique code assigned to the specific x and y coordinates at this sample location
SMPL_TYPE	Sample Type	Sample media options: surface soil (SS), borehole (BH), or groundwater (GW)
CUST_SAMP_NUM	Customer Sample Number	Text field used by the sample team that identifies the sample
COLLECTION_DATE	Collection Date	Date the sample was collected in the field
TEST_METHOD_NAME	Test Method Name	Specific laboratory test methods used to analyze the sample
RESULT_SEQUENCE_ID	Result Sequence Identifier	Unique record-level identifier for this piece of analytical data
DATA_PACKAGE_ID	Data Package Identifier	Unique identifier relating the sample to its analytical data package
DATA_SOURCE	Data Source	Source of data upload
CAS_NO	CAS Number	Code that identifies the analyte tested
RESULT_TYPE_CODE	Result Type	Coded value identifying the type of sample. (target, matrix spike, etc.)
UNIT_CODE	Unit Code	Units used at the laboratory
RESULT	Numerical Analytical Result	Numeric result of laboratory's analytical run
LAB_CODE	Laboratory Code	Coded value identifying the analytical laboratory
LAB_ANALYSIS_DATE	Laboratory Analysis Date	Date analytical laboratory performed the analysis
LAB_SAMPLE_NO	Laboratory Sample Number	Laboratory's unique sample identifier, assigned by the laboratory
LAB_BATCH_ID	Laboratory Batch ID	Laboratory's unique numerical identifier relating a group of samples to a given laboratory batch
REVISION_DTTM	Revision Date/Time	Date/time field identifying when a sample result was modified
REVISION_USER_ID	Revision User	User's name who revised the data
EDD_FILE_NAME	EDD File Name	Electronic data deliverable file name
EDD_FILE_CREATION_DATE	EDD Creation Date	Electronic data deliverable creation date
LAB_SAMPLE_RECEIPT_DATE	Laboratory Sample Receipt Date	Date contract laboratory received the sample
LAB_RESULT_QUALIFIER_CODES	Laboratory Result Qualifier Codes	Coded value indicating a laboratory qualifier or flag
DETECTION_LIMIT_TYPE_CODE	Detection Limit Type Code	Coded value indicating which detection limit was used (method detection limit, instrument detection, etc.)
DETECTION_LIMIT	Detection Limit	Numeric value representing the detection limit per analytical run
SS_DILUTION_FACTOR	Serial Dilution Factor	Numeric factor when a given analytical run was diluted
SS_LAB_EXTRACTION_DATE	Laboratory Extraction Date	Date the sample was extracted for an analytical run
RC_SAMPLE_VOLUME	Sample Volume	Volumetric amount of sample for analysis
RC_SAMPLE_VOLUME_UNIT_CODE	Sample Volume Unit Code	Coded value representing the volumetric units
RC_SIGMA_ERROR	Sigma Error	Amount of sigma error for a given radiological sample

10

Field Name	Description	Definition
RC_LCS_FRACTIONAL_SMPL_RECOVER	LCS Fractional Sample Recovery	Laboratory control sample's fractional recovery
RC_DUPLICATE_EQUIVALENCY	Duplicate Equivalency	Measure of precision using duplicate samples
RC_LCS_YIELD_FRACTION	LCS Yield Fraction	Laboratory control sample's yield fraction
VALIDATION_QUALIFIER_CODE	Validation Qualifier Code	Coded value representing the validation qualifier or flag
VALIDATION_REASON_CODES	Validation Reason Codes	Numeric value describing the reason for the validation qualifier
VALIDATION_DATE	Validation Date	Date validation was performed on the laboratory batch
SECOND_RESULT_TYPE_CODE	Second Result Type Code	Code to designate tentatively identified compounds (TICs) or surrogates (SURs)
NO_LONGER_REP_IND	No Longer Representative Indicator	Boolean value indicating whether the sample's origin has been remediated
ERROR_IND	Error Indicator	Boolean value indicating whether error was present during sample analysis
JOURNAL_COMMENT	Journal Comment	Comment relating to the status of a certain sample
TOTAL_PROPAGATED_ERROR	Total Propagated Error	Total propagated error at 2 sigma
DENSITY_FACTOR	Density Factor	Density factor/geotechnical measurement
TIME_ANALYZED	Time Analyzed	Time a sample was analyzed
SRT_RECORD_NUM	SRT Record Number	Unique numeric identifier associated with a specific record in SWD's Stage Result Table
ANALYTE_NAME	Analyte Name	Name of the analyte
IA_FILTER_CODE	IA Filter Code	Boolean value indicating whether the sample was compared against the IA filter
HRR_ZONE	HRR Zone	HRR Zone
IA_GROUP	IA Group	IA Group
IHSS_NUM	IHSS Number	Individual hazardous substance site identifier
PAC_NUM	PAC Number	Potential area of concern identifier
UBC_NUM	UBC Site Number	Under-building contamination site identifier
WHITE_SPAC	White Space	White space
ASWD_RATING	ASWD Rating	Coded value identifying the quality filter rating
DUPLICATE	Duplicate Record	Duplication of a record based on location code, customer sample number, collection date, and analyte
NORTHING	Mapping Coordinate	UTM State Plane Coordinate (Y coordinate), in feet
EASTING	Mapping Coordinate	UTM State Plane Coordinate (X coordinate), in feet
ELEVATION	Mapping Coordinate	Elevation above sea level, in feet

ASWD – Approved SWD Data
CAS – Chemical Abstract Service
EDD – Electronic Data Deliverable
HRR – Historical Release Report
IA – Industrial Area
IHSS – Individual Hazardous Substance Site
LCS – Laboratory Control Sample
PAC – Potential Area of Concern
SRT - Stage Result Table
UBC – Under Building Contamination

The database file name is "dbIATotal1.mdb." Within the database is the data set of interest, specifically the table "tblIAFilterTotal1." A Query By Form, which will allow the user to easily perform various queries on the data set, is included. Clicking the "Forms" tab (within the ACCESS application), followed by clicking the file name "frmVALIDATION" will activate the Query By Form.

Existing surface and subsurface soil analytical data from the RFETS environmental Soil Water Database (SWD) were filtered through a data quality filter (by means of Microsoft Access queries). The basic design of the data quality filter is shown on Figure 1. The data quality filter is designed for all locations and media types in SWD to determine usable data for the Comprehensive Risk Assessment (CRA). Figures 2 and 3 illustrate more specific quality control (QC) criteria.

These filters accept, conditionally accept (qualify), or disqualify data for use, based on several decision criteria. A brief discussion of each data quality filter step in Figures 2 and 3 is provided below.

Location

The first filter segregates sample results by geographic location. Only those samples from locations within the IA boundary (Figure 4) are currently under consideration. Therefore, only sample results within that boundary are included for further filtering.

Validation Qualifiers

This filter is used to separate data that have not passed laboratory validation guidelines. Validated environmental data fall into one of three basic categories: rejected, valid, or acceptable with qualification. The validation filter omits all rejected data from further consideration.

Association with Validated Laboratory Batches

Data that have no formal laboratory validation qualifiers are examined to determine whether they can be associated with laboratory batches containing other valid data. If data can be associated with valid laboratory batches, they pass through the filter and a qualification is assigned.

Nondetected Results Where Negative Bias May Be Present

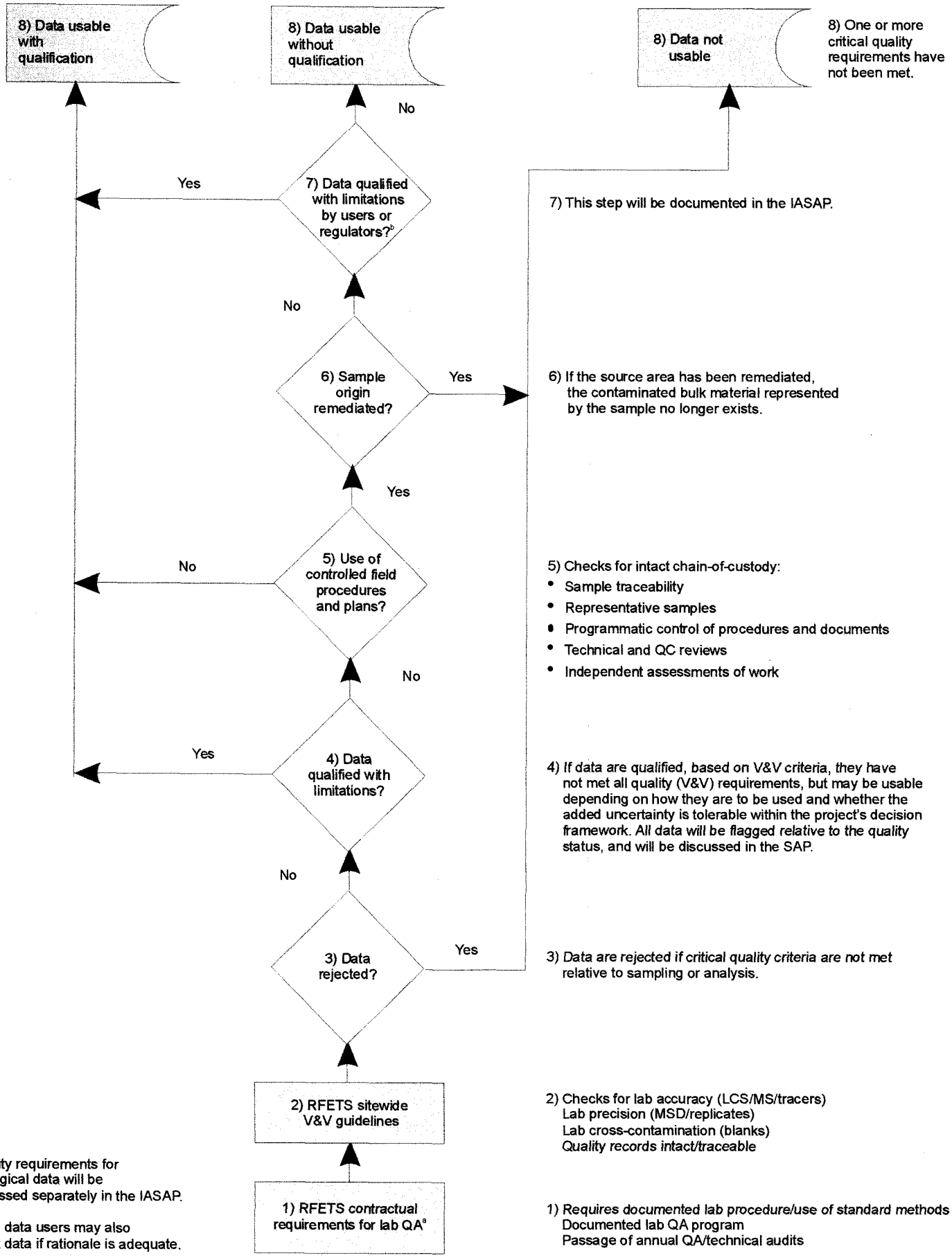
A nondetection may be the result of an actual lack of a contaminant, or it may be the result of sample dilution. Because nondetections are eliminated from data evaluation, nondetections due to dilution need to be identified. Some validation qualifiers indicate a bias may be present in the results; however, they are not explicit as to whether the bias is positive or negative. As a result, the potential for negative bias in nondetections is identified in the qualifier and requires individual evaluation.

Approved/Controlled Documents Used for Field Sampling

Valid (usable) data require the use of quality controls in sample collection. A basic element of valid data is the use of approved and controlled procedures. This filter consists of a date query, whereby samples corresponding to use of approved and controlled procedures in the field were considered to be within an established quality program. The date June 28, 1991, was chosen because it corresponds to the implementation of RCRA and the Comprehensive Environmental Response, Compensation, and Liability

12

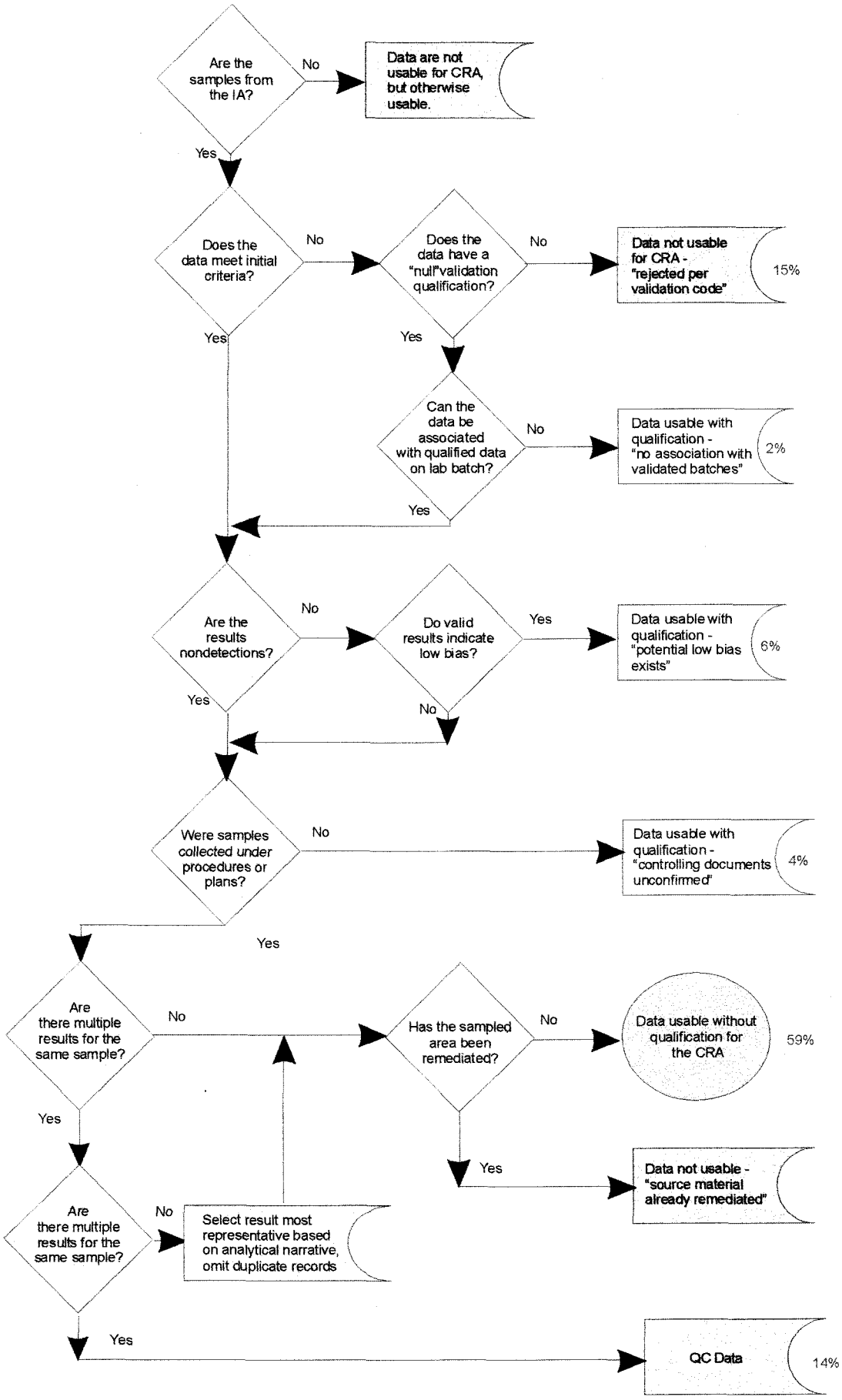
Figure 1
Data Quality Filter for the Industrial Area Sampling and Analysis Plan and Comprehensive Risk Assessment



[a] Quality requirements for biological data will be addressed separately in the IASAP.

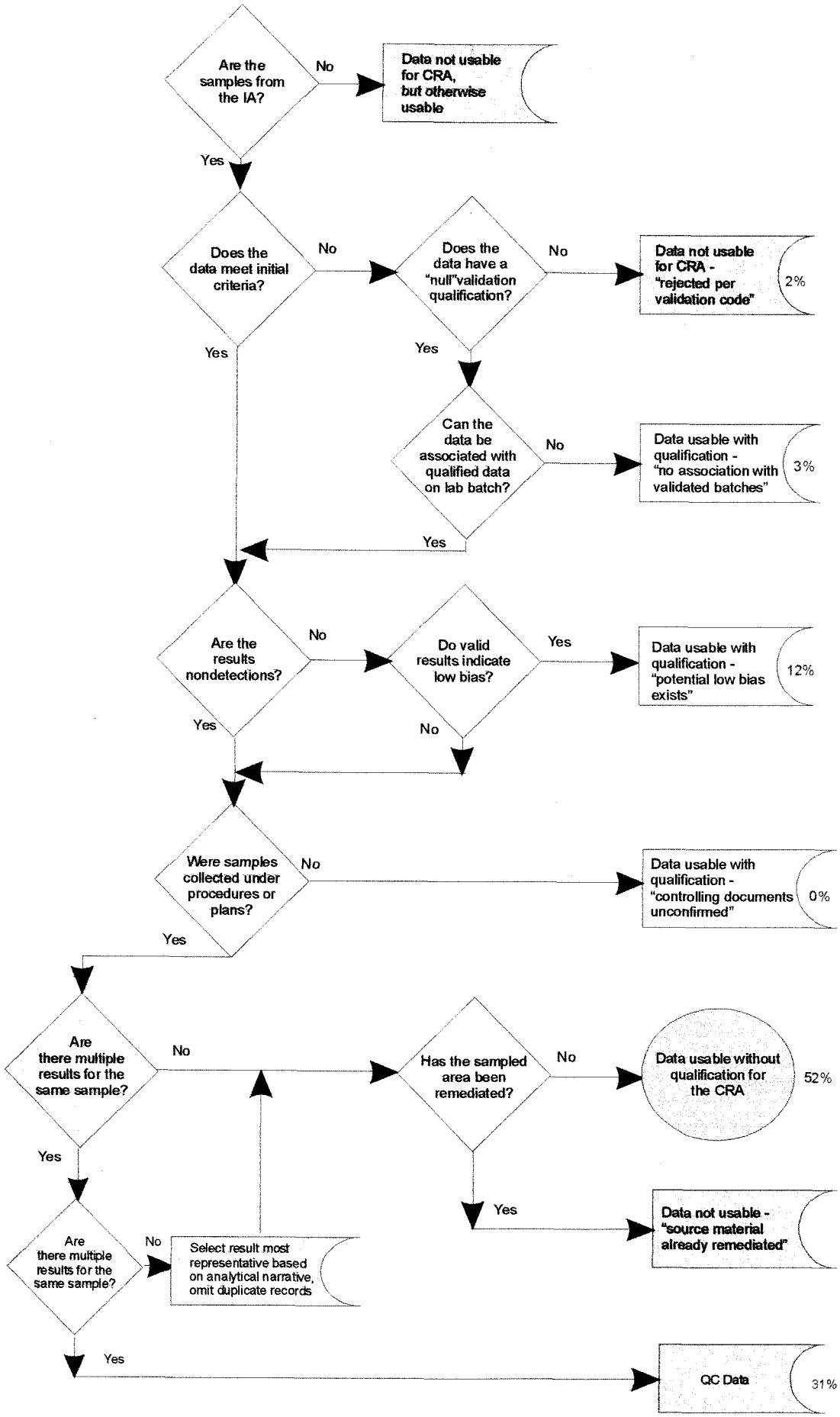
[b] Final data users may also reject data if rationale is adequate.

Figure 2
Industrial Area Data Quality Filter - Subsurface Soil



14

Figure 3
Industrial Area Data Quality Filter - Surface Soil



15

Act (CERCLA) environmental investigation requirements at RFETS. This implementation included a requirement for regulatory agency review and approval of work plans and procedures.

Multiple-Result Records

A filter was created to eliminate duplicate records and select the most representative concentration or activity value when multiple analyses were performed on the same sample. This filter serves multiple purposes:

1. To qualify (flag) QC results so that results are not used in data aggregation or statistical applications of the real (sample) results;

2. To eliminate replicate entries of the same information, per sample, within the database; and,

3. To qualify multiple concentration (or activity) values of the same sample when the laboratory performed multiple laboratory runs (e.g., due to dilutions).

The data user must evaluate the samples with multiple values to determine the most appropriate result. The filter described above consisted of multiple queries performed sequentially. These queries are presented in Figure 5. Some sample results show multiple results for one sample, because of dilutions, QC issues, or other reasons. For each of these occurrences, the most representative value must be selected for the sample. The filter flags the samples that have multiple results; it cannot automatically select the "best" value. Consequently, after the samples are flagged, data users (Subject Matter Experts [SMEs]) review the sample results and select the most representative result based on the analytical history. The final value used to represent the sample will be flagged accordingly; the values not used will be rejected from further use (by flagging accordingly).

Analytical Data

The electronic data submittal consists of 723,784 records, with the parameter fields and their relationships illustrated in an entity relationship diagram (ERD) on Figure 6. The ERD illustrates the RFETS SWD data sets used to produce the IA Data Summary Report data set. Data are organized by IHSS, PAC, and UBC Site on the CD enclosed in Attachment 1.

Data fields are described on Table 1. A compilation of the number of records by IHSS and test method is shown on Table 2. Table 3 provides a crosswalk between test method names, as shown in the database, along with the test methods shown on the GIS maps.

3.0 GEOGRAPHIC INFORMATION SYSTEM MAPS

The GIS maps (Maps 1 through 60) included in this report consist of all known sample data within the IA boundary, as of July 18, 2000, that have passed through the data quality filter.

All IHSS, PAC, and UBC Site boundaries (Figure 4) shown in the IA Groups were expanded 25 feet beyond the traditionally defined boundaries in an attempt to capture all sample locations that could influence characterization of the IHSS, PAC, or UBC Site. Additionally, boundaries for Original Process Waste Lines (OPWL) tanks were expanded 100 feet to include all possibly related sample results. In some cases, more than one IHSS, PAC, UBC Site, or tank is shown on a map.

16

Figure 5
Multiple Record Screen

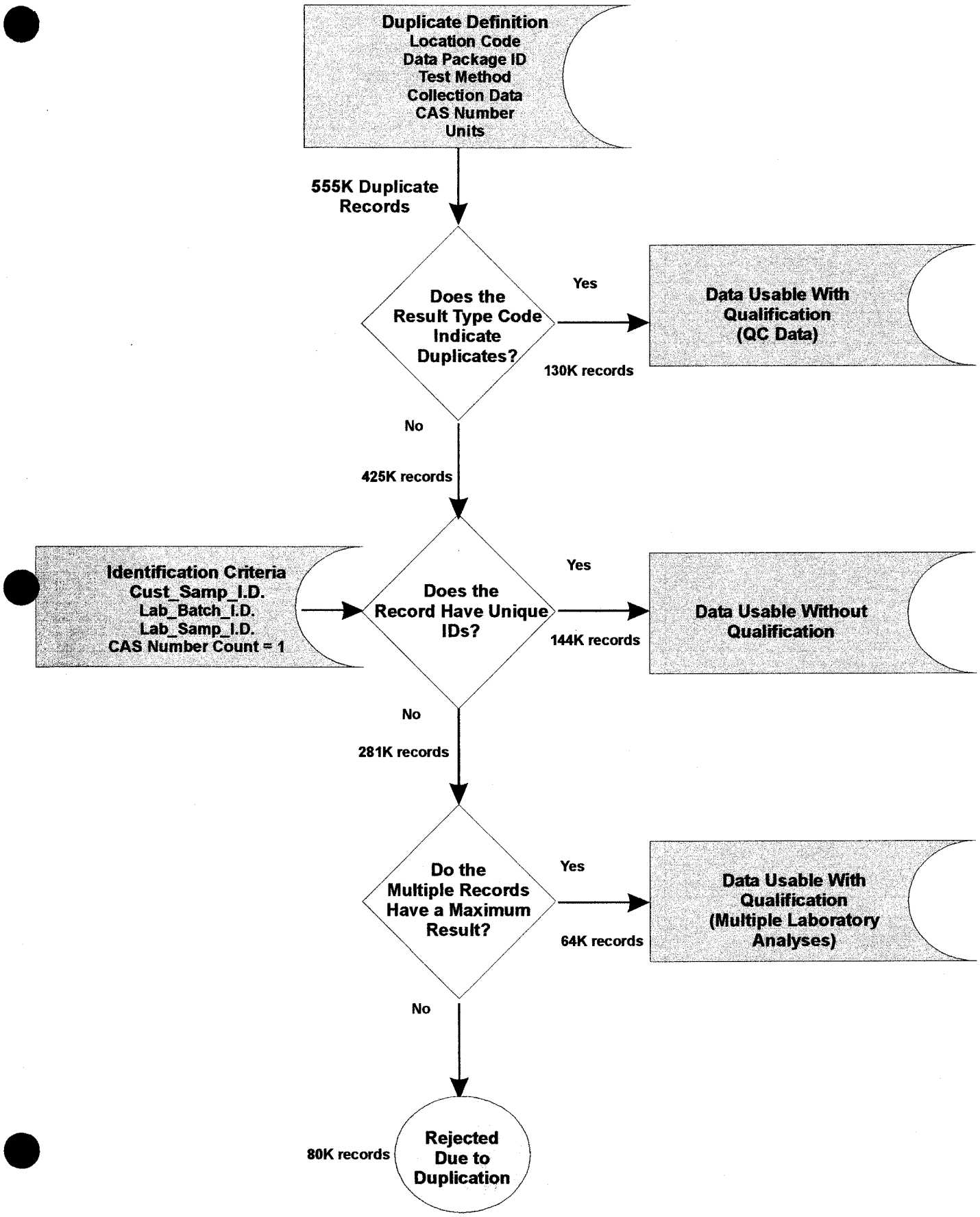
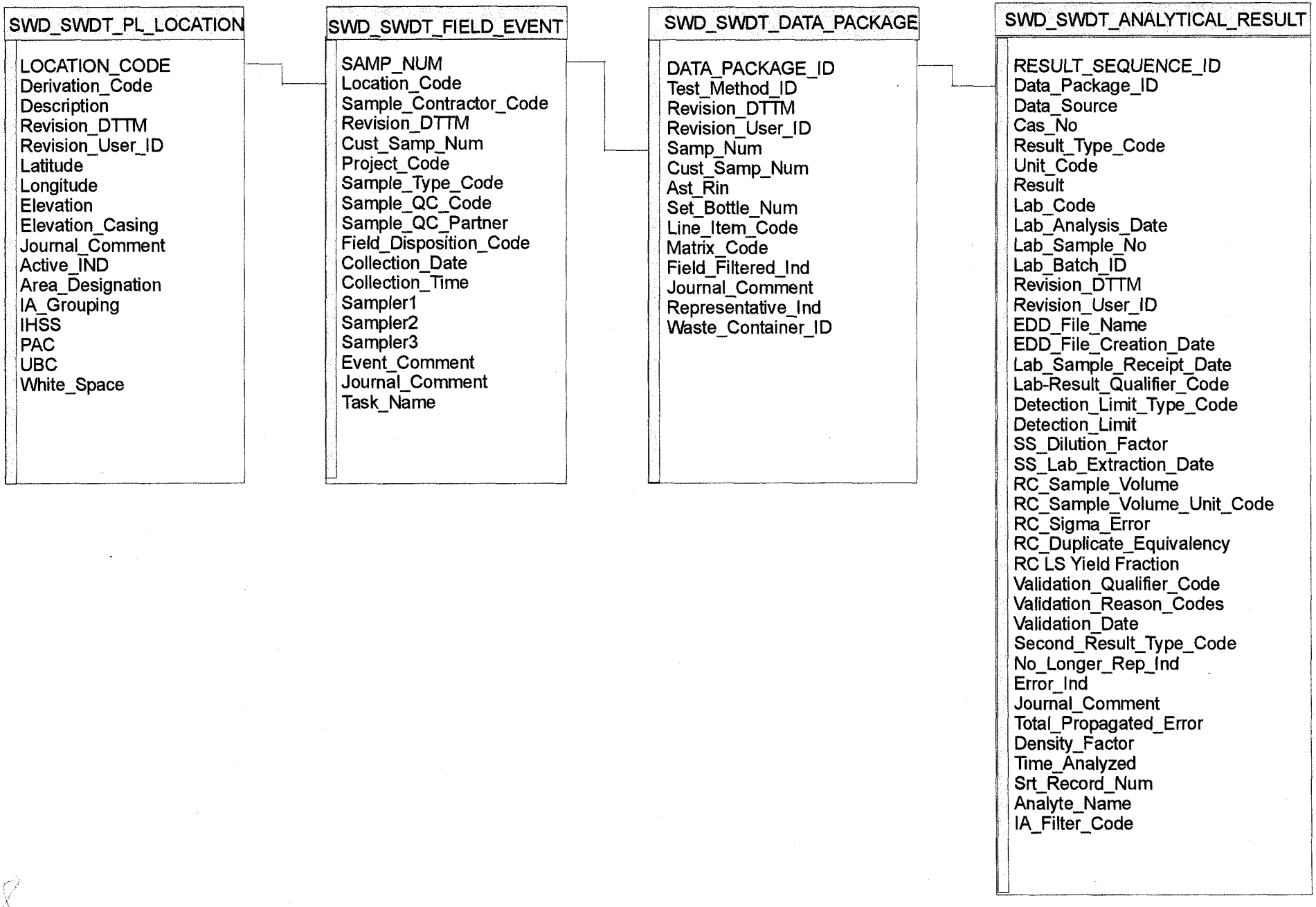


Figure 6
Entity Relationship Diagram



18

There are IHSSs, PACs, and UBC Sites that do not contain any available analytical data or contain data that have not passed the data quality filter. These IHSSs, PACs, and UBC Sites are not represented on the GIS data summary maps.

19

Table 2 — Number of Records by IHSS and Analytical Suite

IHSS Number	VOCs	SVOCs	Rads	Metals	Water Quality Parameters	Pesticides	Pesticides/ PCBs	VOCs (water)	PCBs	TPH	Herbicides	Nitrates	Geotech	Nitrates	Misc[a]
101	40264	17960	11135	32886	8352	6187	0	1329	0	0	20	46	0	46	1542
103	185	284		112	9	112									
115	12884	17975	3076	12154	1869	6394	0	0	0	0	0	0	0	0	481
116.1	90		35	106		70									
117.1	1492	454	396	861	205	220	0	0	36	0	0	0	0	0	18
117.2	1089	291	316	912	140	116									45
117.3	517	145	104	737	49	30	0	0	0	0	0	0	0	0	0
118.1	596	458	10		14			120							557
120.1			70	224											
120.2	918	0	161	806	45	0	0	0	0	0	0	0	0	0	0
123.1		888	100	436	42					56					
131	637	1368	161	386	10										4
134(N)			31	10	3										
134(S)			142	69	10										
135			56	218											
136.1			41	84	5					38					
136.2			111	224	4	98									
137		613	42	168	5										
138		678	72	274											
139.1(N)B	60		26	29	18										
139.1(S)		325	28	84	7										
141	2799	0	5965	2429	6616	919	0	0	0	0	0	308	0	308	7406
143	1670	2400	295	1233	130	865		177							
144(N)	315	289	47	216	6										
144(S)		673	63	252											369
147.1	361		47	58	11										
147.2			84	140											
148			18	109				239				3		3	32
149.1	209	243	36	285	4	27	0	0	0	0	0	0	0	0	0
149.2	3285	65	883	2266	657	27					5	2		2	243
150.1	0	1072	100	386	0	0	0	0	0	0	0	0	0	0	0
150.2(N)								118							60
150.2(N)	306	71	7	196	30										
150.2(S)			54		5	60			296						
150.3		220	21	84											
150.5			28												
150.8			29		6	76									
152	154	218	40	114	16	60	0	0	0	0	0	0	0	0	0

20

IHSS Number	VOCs	SVOCs	Rads	Metals	Water Quality Parameters	Pesticides	Pesticides/ PCBs	VOCs (water)	PCBs	TPH	Herbicides	Nitrates	Geotech	Nitrates	Misc[a]
156.1	0	0	519	0	0	0	0	0	0	0	0	0	0	0	0
157.1	0	651	45	190	6	0	0	0	0	0	0	0	0	0	0
157.2	3831	1004	1790	5443	552	1078	9	60	24	0	0	1	0	1	89
158			71	168	4	4									
160	2556	361	717	2310	243	176									10
161	791	0	218	750	60	28	0	0	0	0	0	0	0	0	0
162	259	0	129	141	5	60	0	0	296	0	0	0	0	0	0
164.1	975	71	308	769	75	28		241				3		3	23
164.2	941	1671	313	794											178
164.3	1238	218	555	899	181	88		422				2		2	32
165	7989	5075	1421	4633	768	1768	0	179	0	0	0	4	8	4	80
171	36	145	41	43	10	30									
172	1498	1288	479	1364	188	146	0	356	0	0	0	1	0	1	139
175		1509		310	29	336							4		1
176	9950	2642	2008	5569	1462	873	0	0	0	0	0	6	4	6	176
186	2954	504	748	1605	355	200	0	120	0	0	0	1	0	1	37
187		142	13	28	1										
189			79	386	11										
190	4299	435	6432	3116	6969	260	0	0	0	0	5	308	0	308	7916
191		147	8	28	1										
192	12301	2449	2130	10628	2286	897	0	120	0	0	0	0	0	0	1738
196	795	900	130	483	14	217									
197	36	238	12	29	9	30									
208			23	28	2	40			8						
210		1175		411	23	322							4		1
213	2684		464	1544	428										661
214	1020		88	476	148										529
NA	117942	39443	24670	79715	18059	13478	162	15626	764		92	136	8	136	9635

IHSS – Individual Hazardous Substance Site
VOC – Volatile Organic Compound
SVOC – Semivolatile Organic Compound
Rads – Radionuclides
PCB – Polychlorinated Biphenyl
TPH – Total Petroleum Hydrocarbons
a – Miscellaneous tests run on samples including microbacterial analysis, pH, etc.
NA – White Space

21

Table 3 — Test Method Names

Database Test Method Name	Map Test Method Name	Map Subscript Number
ALPHA SPEC	Rads	3
ASTMD422	Geotech	13
ASTMD854	Geotech	13
BNA625	SVOCs	2
BNACLP	SVOCs	2
BNCLP	SVOCs	2
CLP-SOW-DISSOLVED	Metals	4
DMETADD	Metals	4
DRADS	Rads	3
DSMETCLP	Metals	4
DWQPL	Water Quality Parameters	5
EPA 353.1	Nitrates	12
EPA 524.2	VOCs (water)	8
HERB8150	Herbicides	11
METADD	Metals	4
METCLP	Metals	4
PCB8080C	PCBs	9
PESTCLP	Pesticides	6
PSTPCB508	Pesticides/PCBs	7
SMETCLP	Metals	4
TPH8015A	Total Petroleum Hydrocarbons	10
TRADS	Rads	3
VOA524.2	VOCs	1
VOACLP	VOCs	1
VOASWEEP	VOCs	1
WQPL	Water Quality Parameters	5
EPA 300.0	Water Quality Parameters	5
EPA 415.1	Water Quality Parameters	5
SW-846 8080A/8081	Pesticides/PCBs	1
SW-846 8260	VOCs	1
SW-846 8270B	SVOCs	2
SW-846 9040B	Water Quality Parameters	5
SW-846-TOTAL	Metals	4
SW846 8330	VOCs	1
NA	Data Not Available	DNA

DNA – Data Not Available
NA – Not Available
PCB – Polychlorinated Biphenyl
Rads – Radionuclides
SVOC – Semivolatile Organic Compound
VOC – Volatile Organic Compound

22

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(The disk is available through the US DOE Office of Communications, (303) 966-4580)

Rocky Flats Environmental Technology Site Industrial Area Data Summary Report September 2000

Electronic Copy

Attachment 1, Chemical and Radiochemical Sample Results

U.S. DEPARTMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

AR Document Number: ER-A-000544

82

THIS TARGET SHEET REPRESENTS AN OVER-SIZED MAP / PLATE FOR THIS DOCUMENT

Rocky Flats Environmental Technology Site Industrial Area Data Summary Report September 2000

Plate:

Figure 4 IA Strategy Groups and Individual Hazardous Substance Sites

Map ID: 2K-0225

September 20, 2000

CERCLA Administrative Record document, IA - A - 000544

U.S. DEPARTEMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

GOLDEN, COLORADO

83

THIS TARGET SHEET REPRESENTS AN OVER-SIZED MAP / PLATE FOR THIS DOCUMENT

Rocky Flats Environmental Technology Site Industrial Area Data Summary Report September 2000

Plate:

Map 60 White Space Areas

Map ID: 2K-0225/White Space

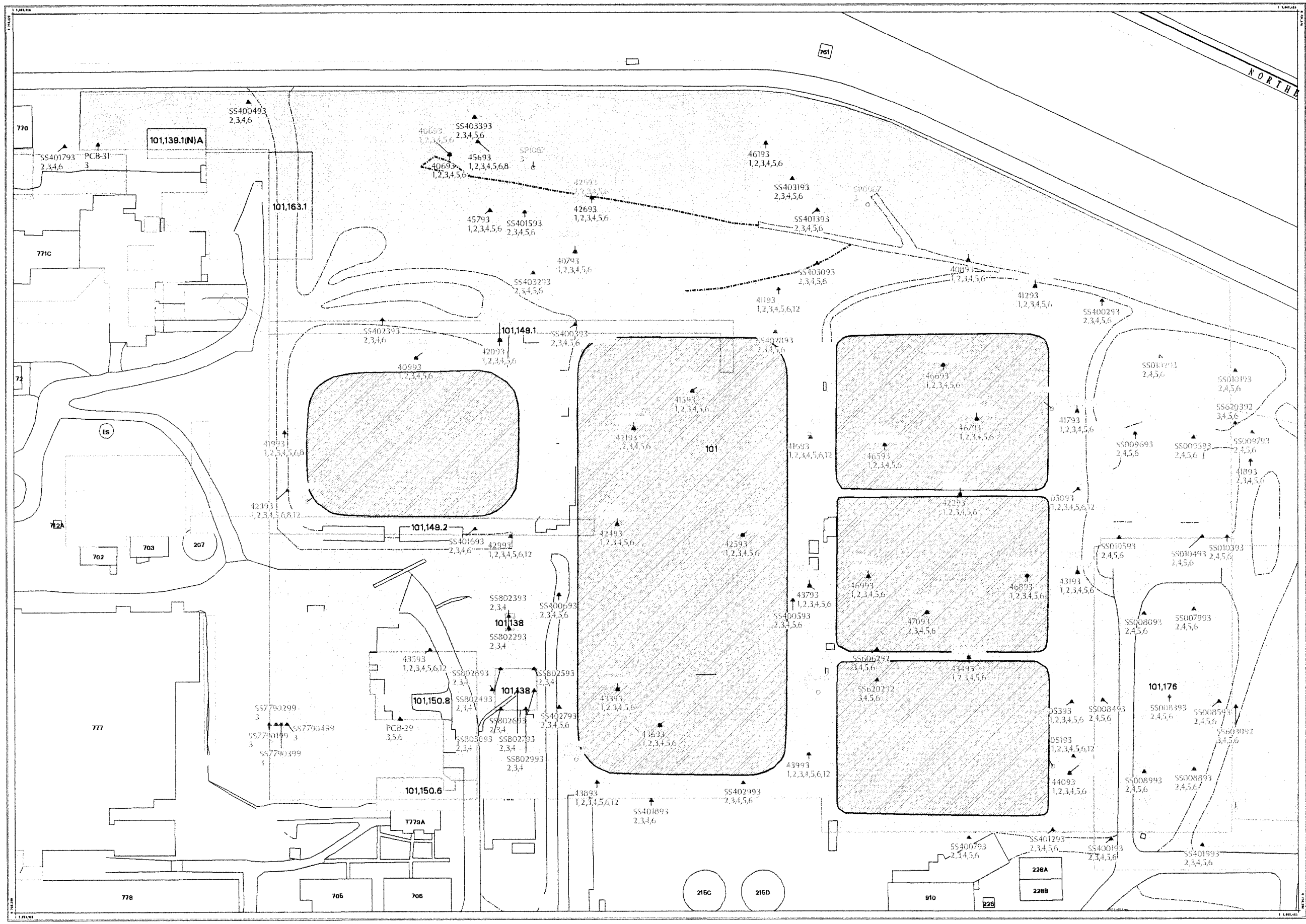
September 20, 2000

CERCLA Administrative Record document, IA - A - 000544

U.S. DEPARTEMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

GOLDEN, COLORADO

84/84



Map 1
IHSS 101
207 Solar Evaporation Ponds
IA Group 000-1

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 101
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sanieze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 1390
1 inch represents approximately 116 feet

25 0 50 100 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

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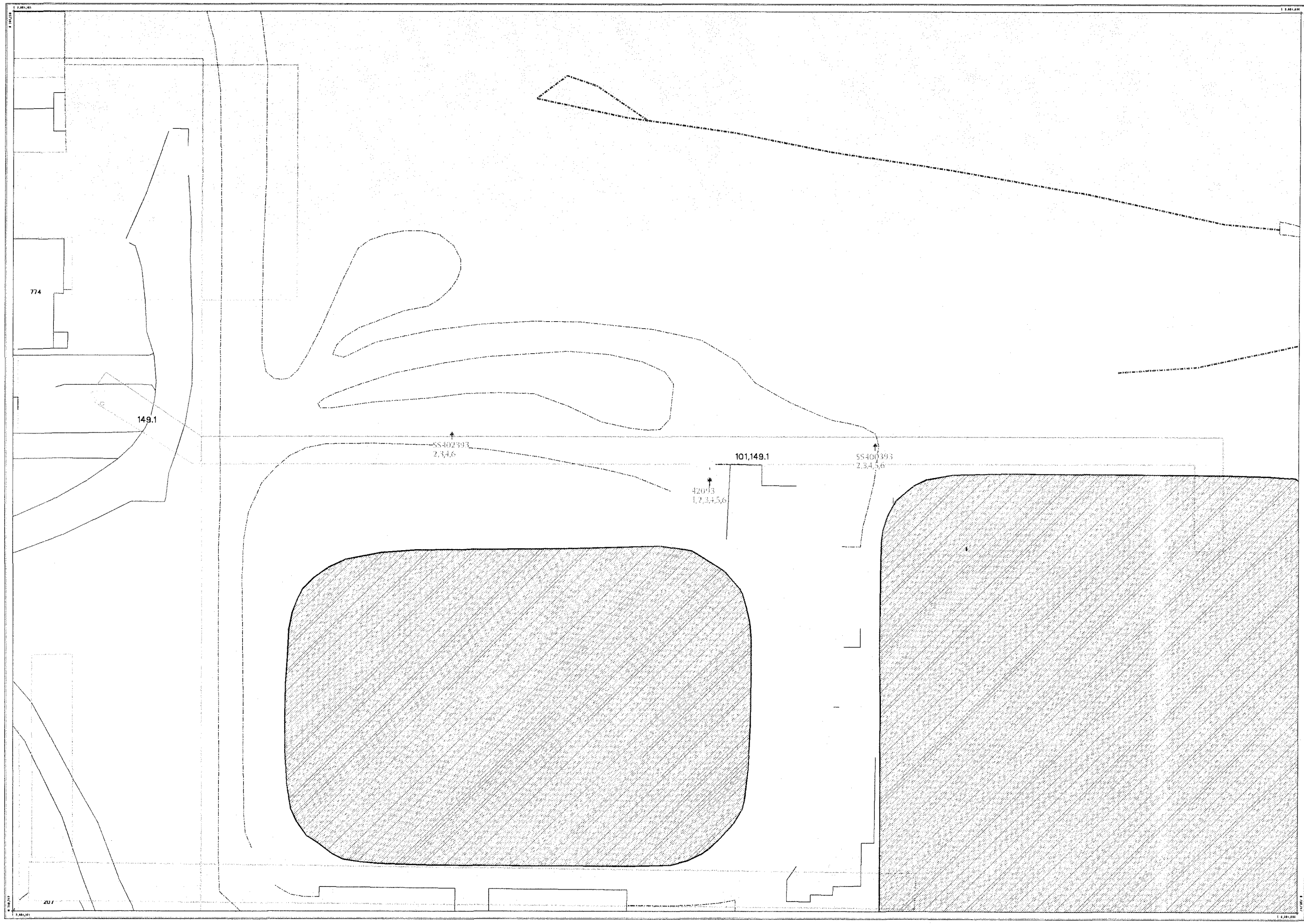

Map 2
IHSS 149.1
Effluent Pipe
IA Group 000-1

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 149.1
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 630
1 inch represents approximately 53 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7767

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

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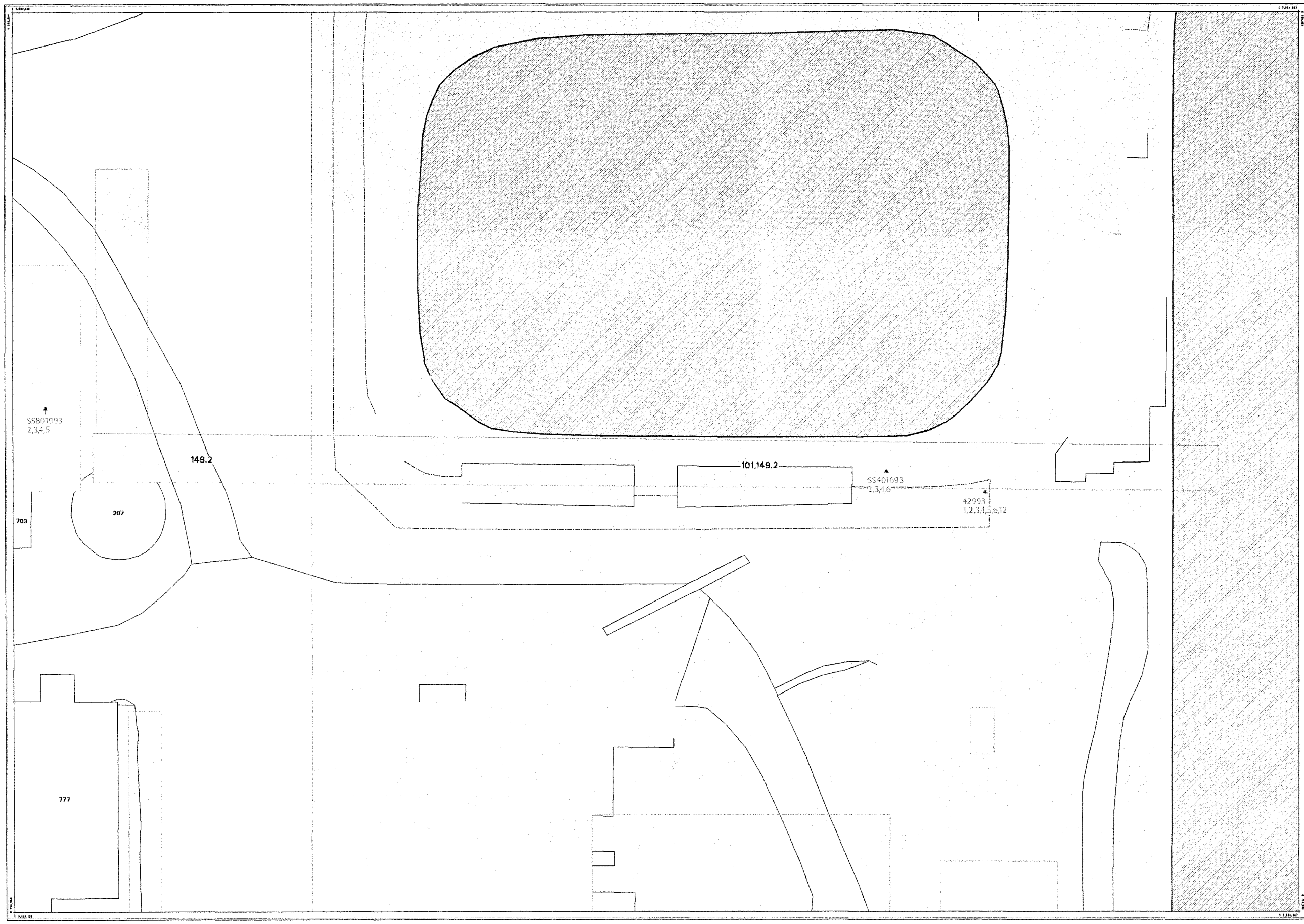

Map 3
IHSS 149.2
Effluent Pipe
IA Group 000-1

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 149.2
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Semeze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 500
1 inch represents approximately 42 feet

6 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

Prepared for: KAISER•HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

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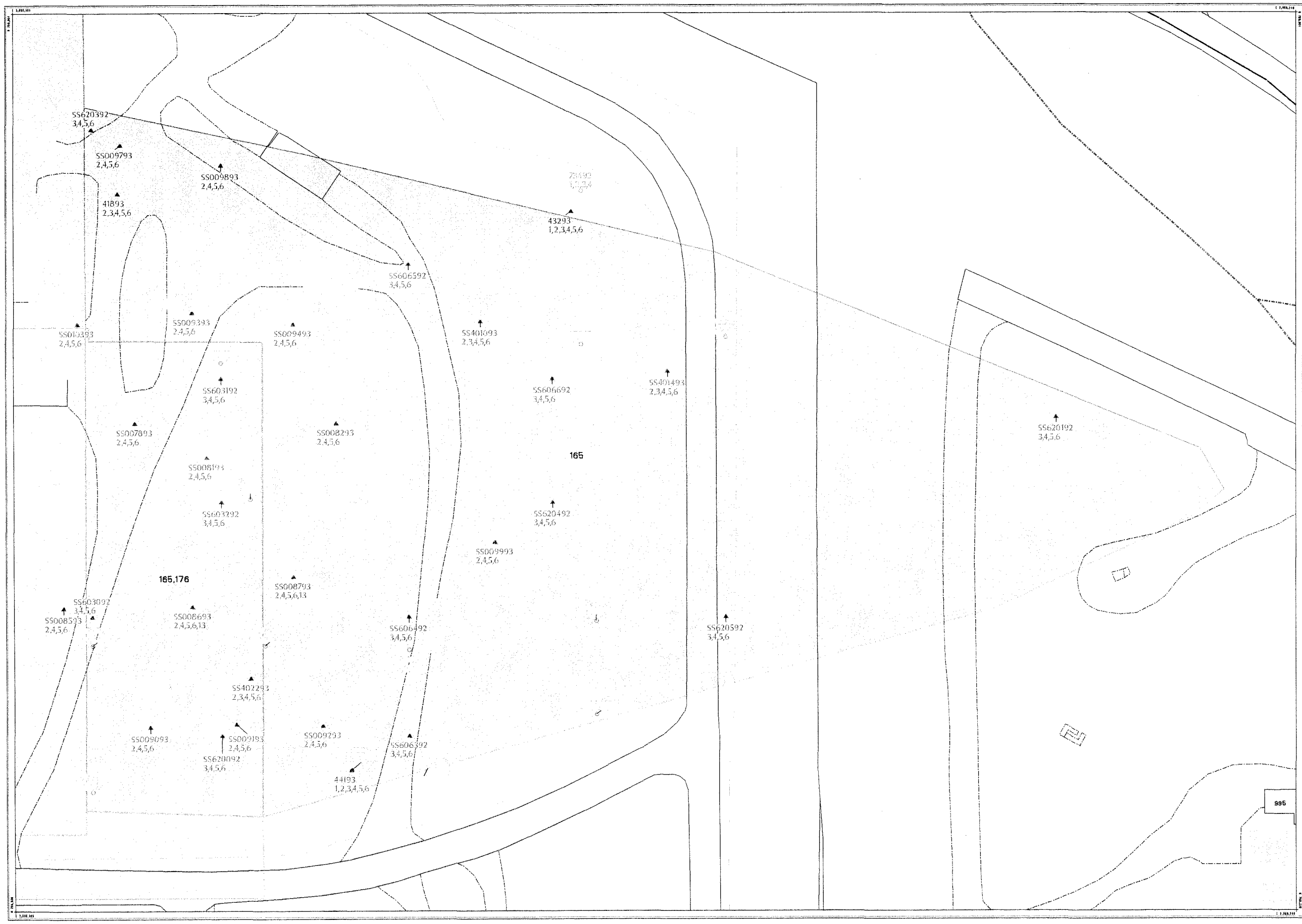

Map 4
IHSS 165
Triangle Area
IA Group 000-1

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 165
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chiomec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 810
1 inch represents approximately 68 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

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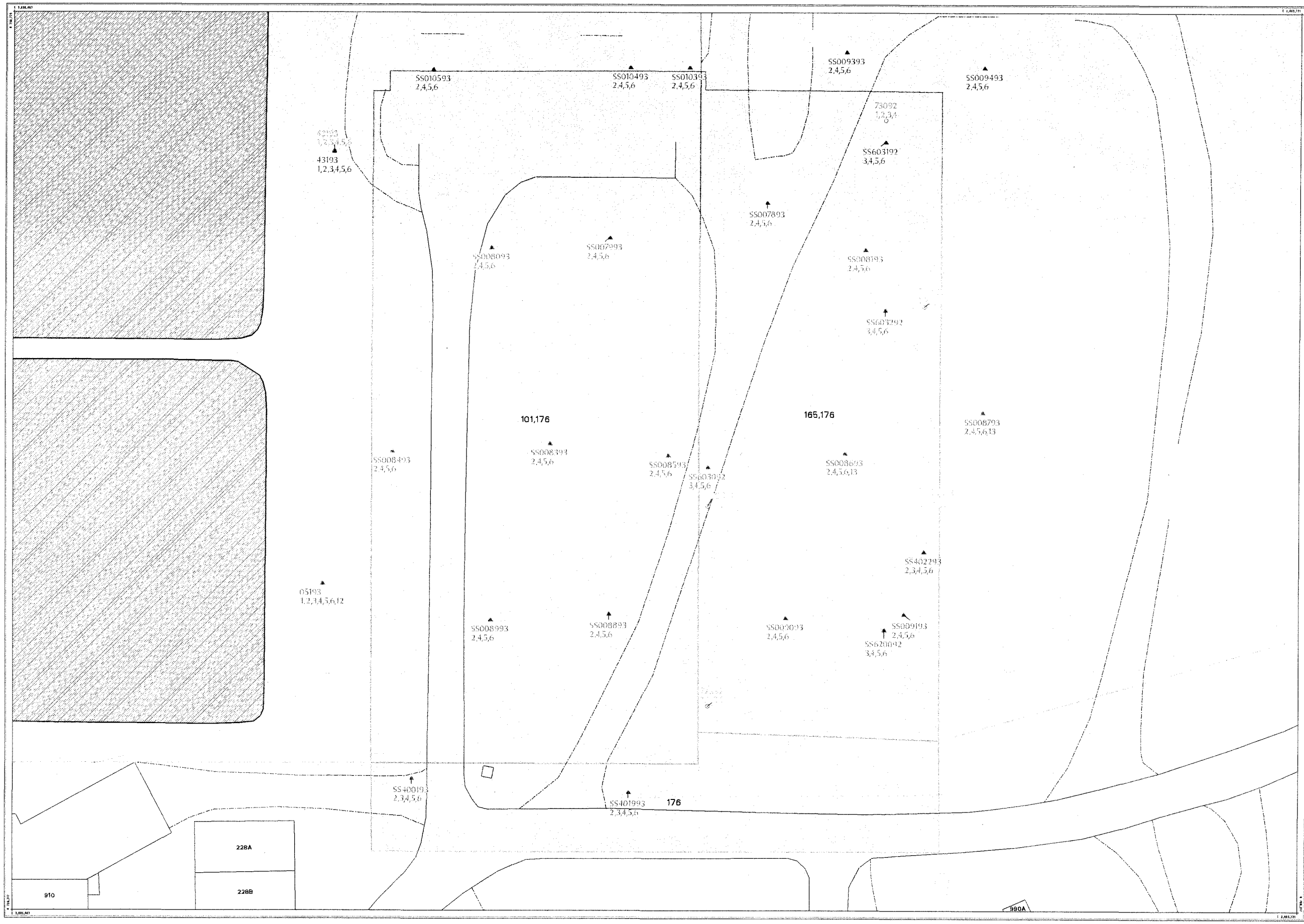

Map 5
IHSS 176
S&W Contractor Storage Yard
IA Group 000-1

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 176
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 580
1 inch represents approximately 49 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

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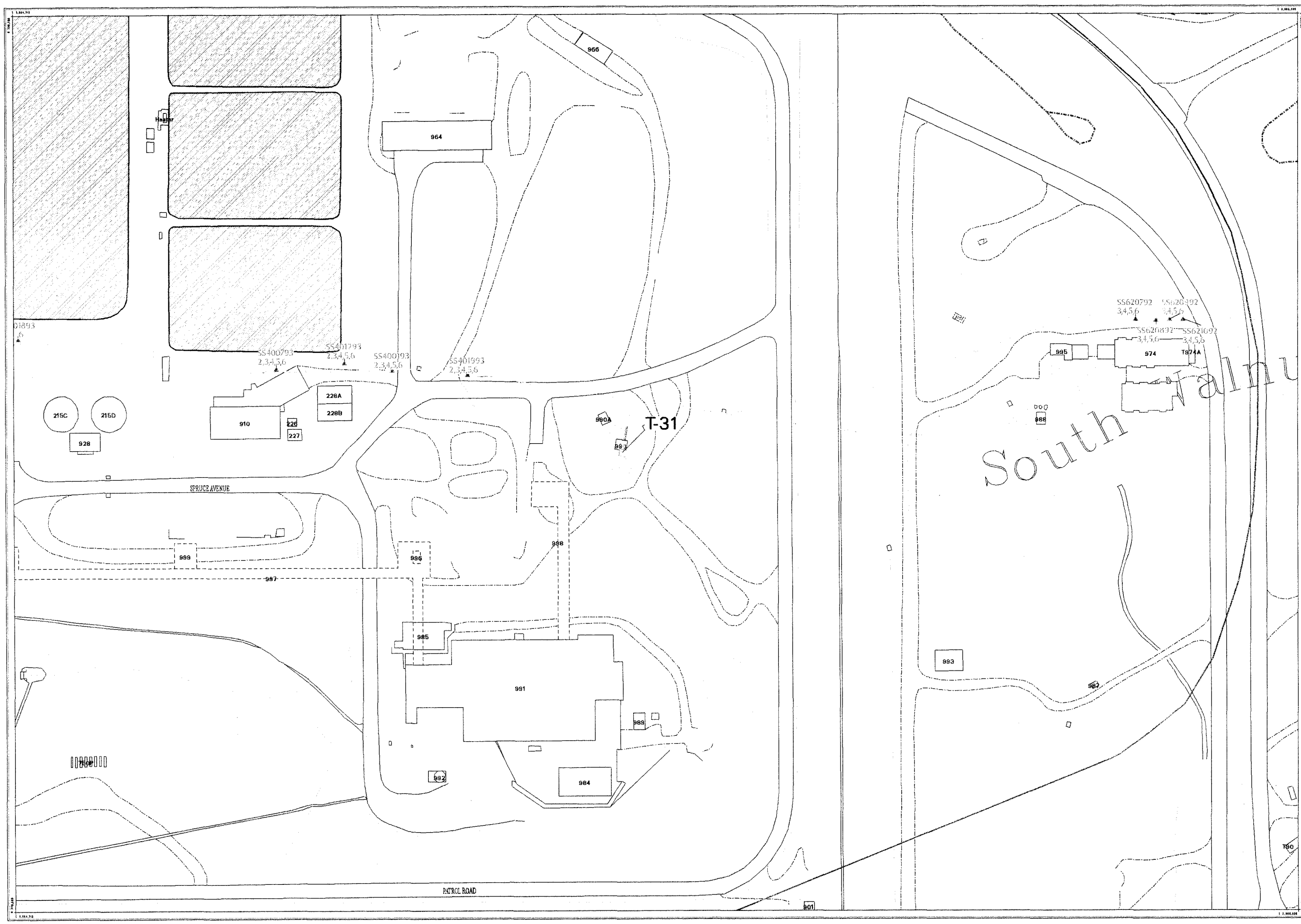


Map 6
IHSS 121
OPWL Tanks
IA Group 000-2, Tank 31

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- Tank
- IA Boundary
- Original Process Waste Line (OPWL)

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
Tank/OPWL data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 1,700
1 inch represents approximately 142 feet

25 0 50 100ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

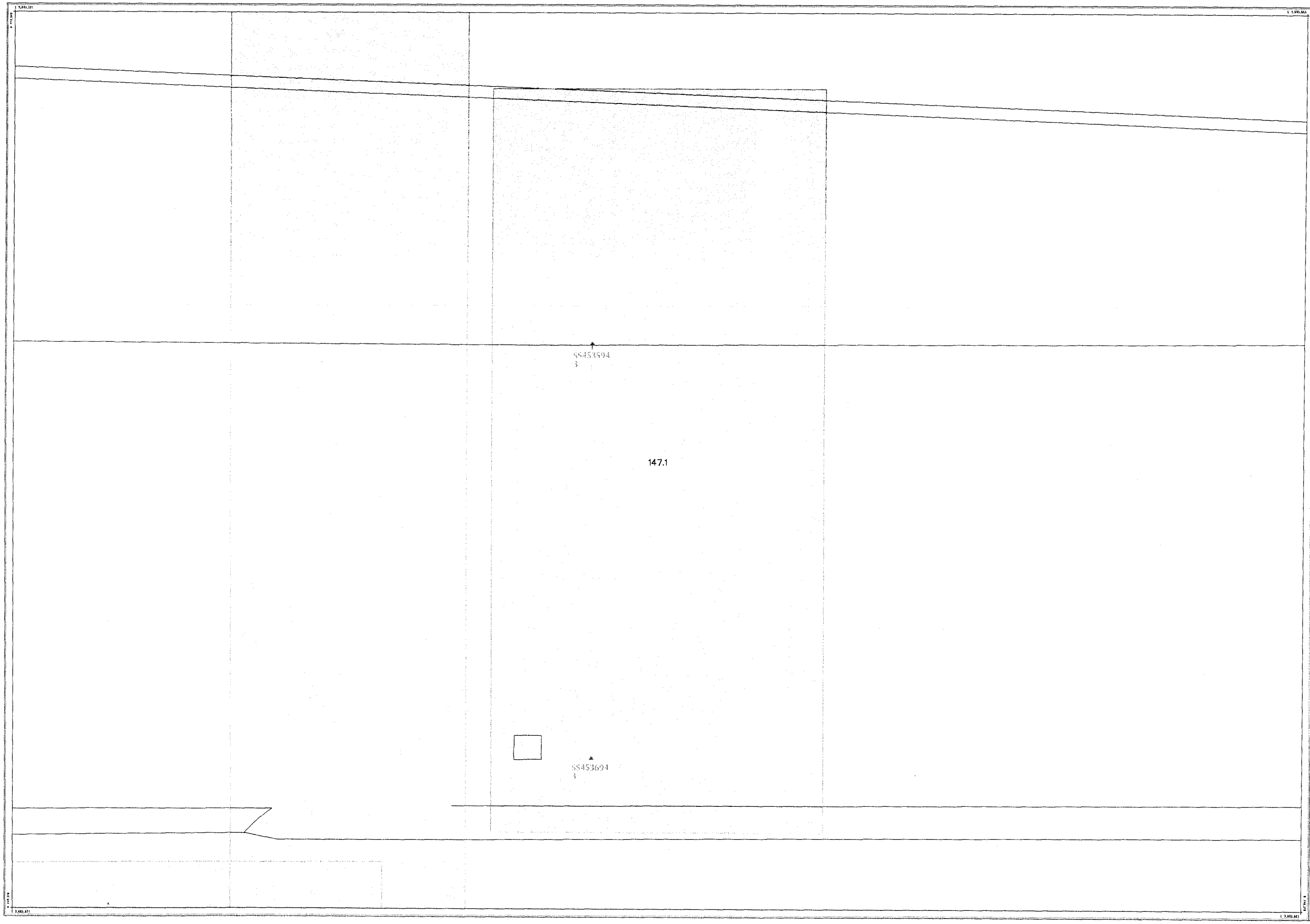
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/tanks-opwl-8.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/tanks-opwl-8.aml

28



Map 7
IHSS 147.1
Process Waste Line Leaks
IA Group 000-2

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 147.1
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 300
1 inch represents 25 feet

6 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL

MAP ID: 2k-0225ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

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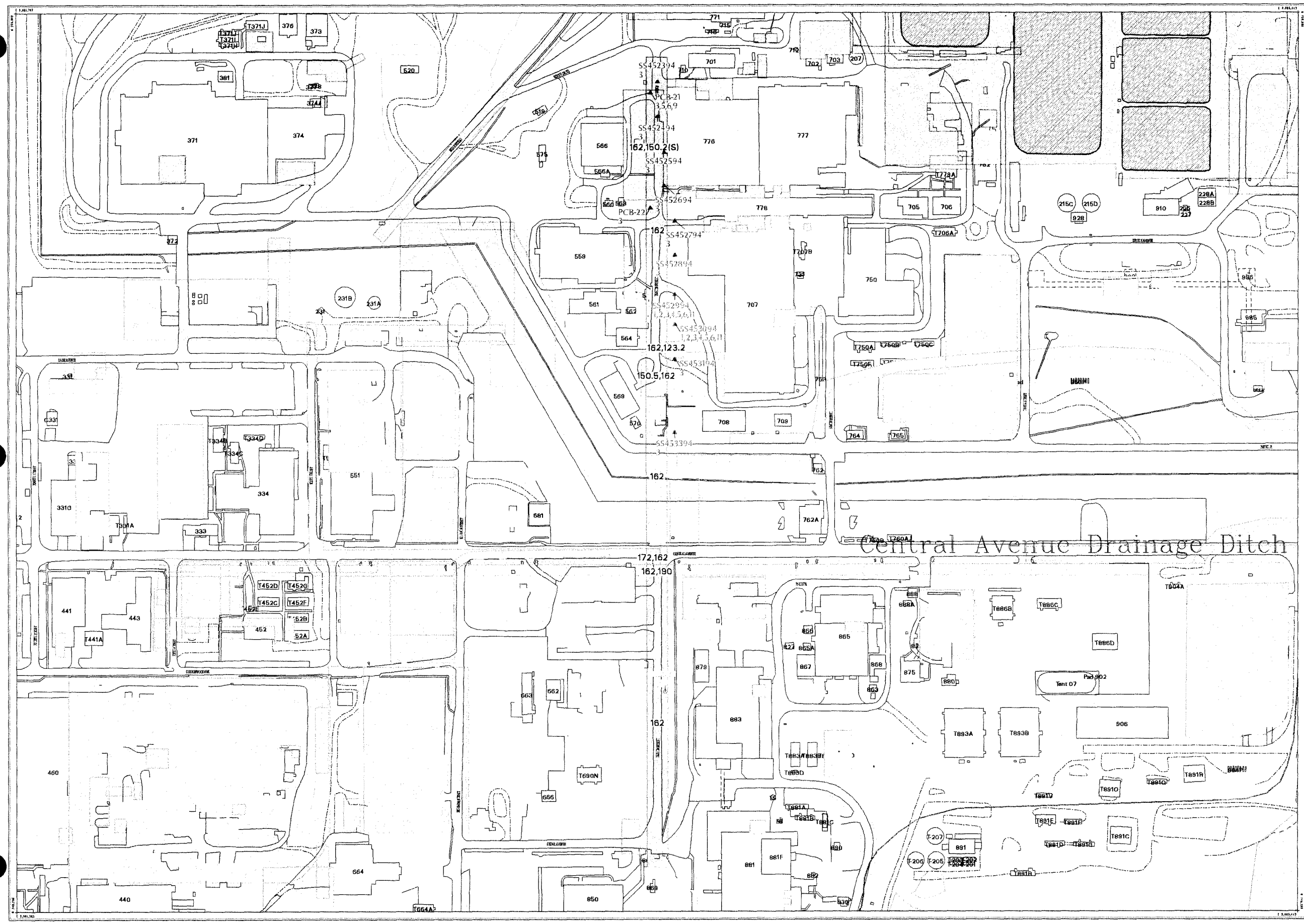

Map 8

IHSS 162

Radioactive Site - 700 Area Site # 2

IA Group 000-2

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 162
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 3330
1 inch represents approximately 278 feet

50 0 100 200ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

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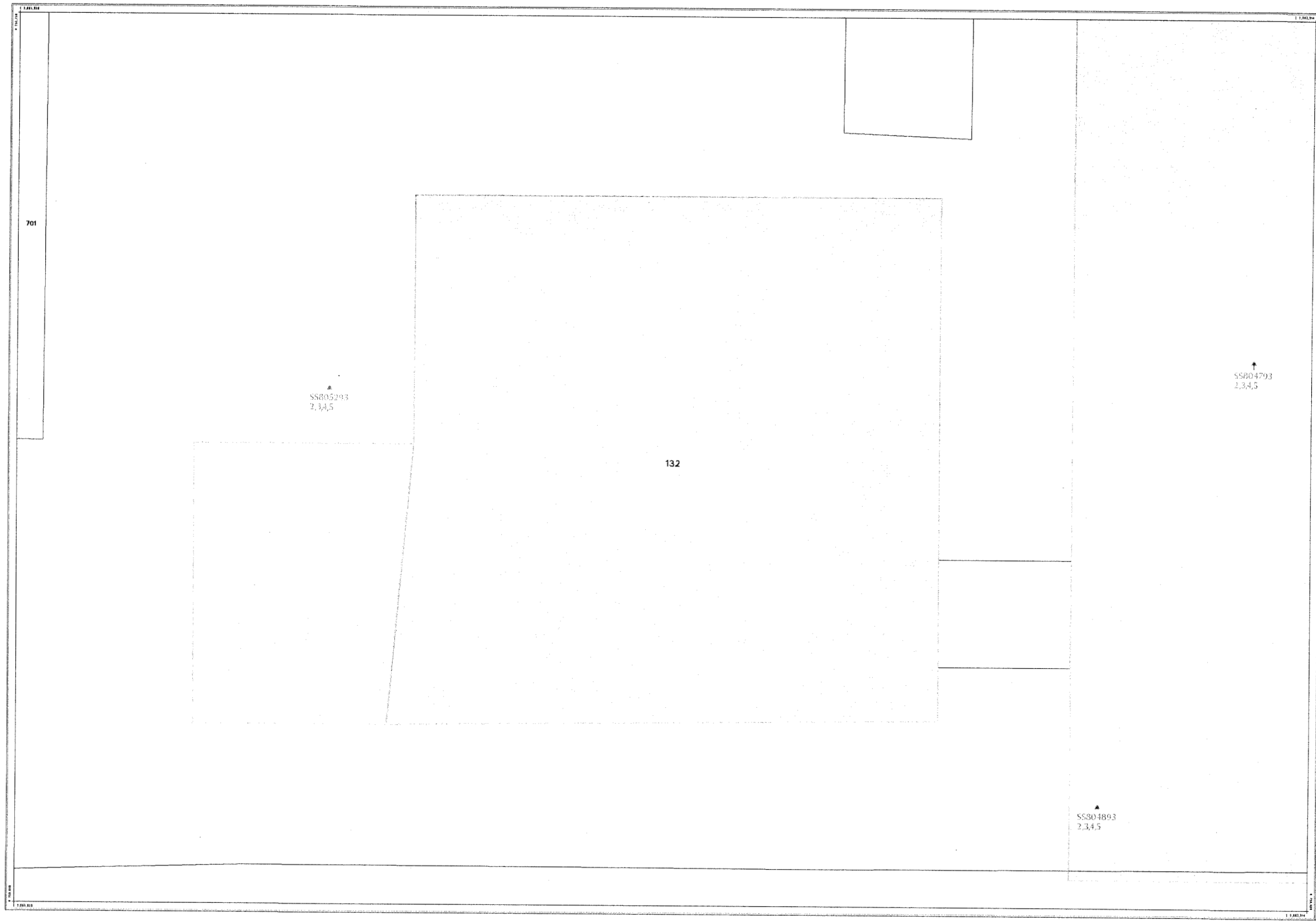


Map 9

IHSS 132

Radioactive Site - 700 Area Site #4

IA Group 000-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 132
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 80
1 inch represents approximately 7 feet

0 2 4 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

N T_Svr h:/projects/fy2k/2k-0225/ihss.aml

31

Map 10
IHSS 143
Building 771 Outfall
IA Group 000-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 143
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:

Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.

Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.

Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.

IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 180
1 inch represents approximately 16 feet

2 ft 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

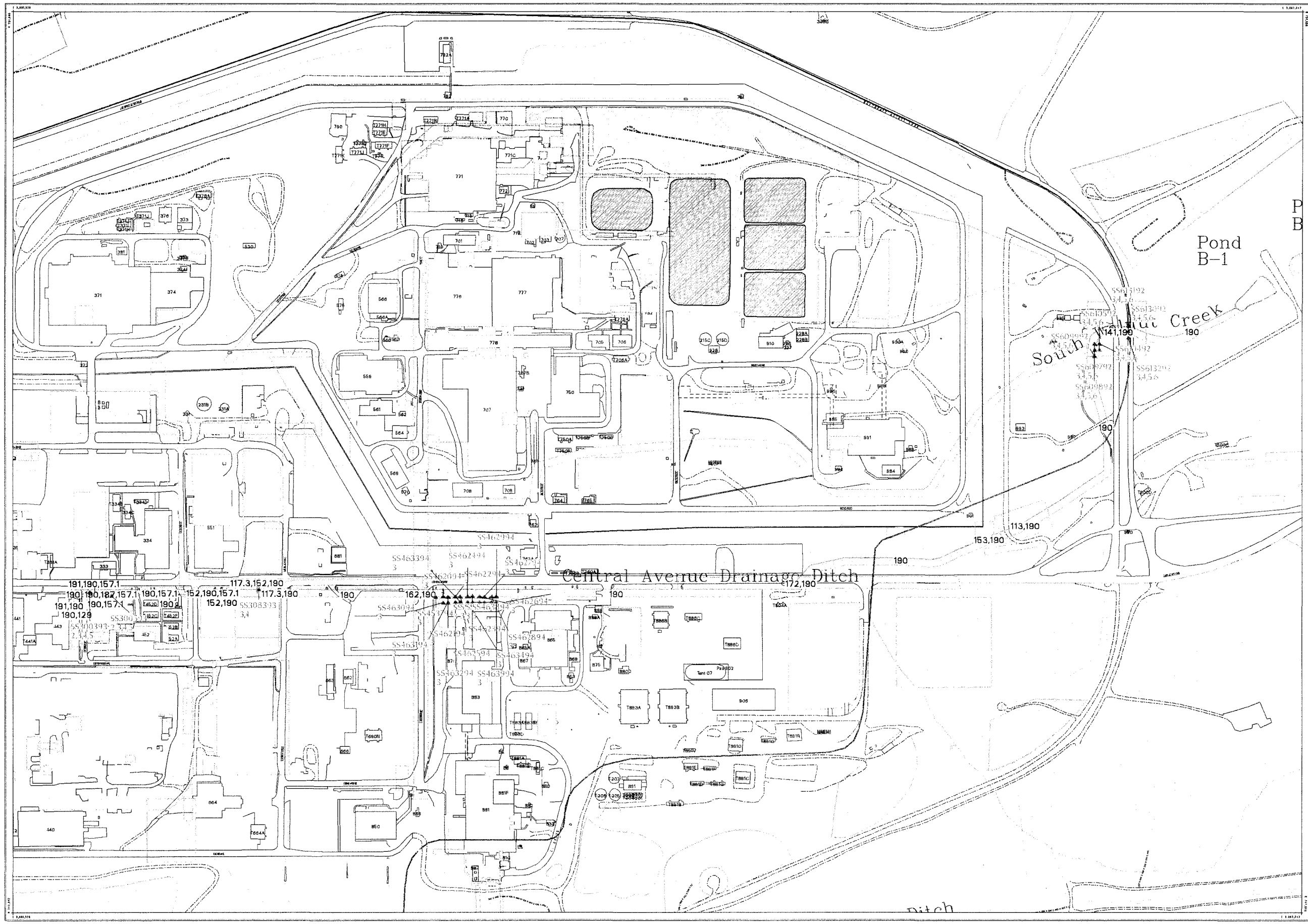
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225lhss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/lhss.aml

32



Map 11
IHSS 190
Caustic Leak
IA Group 000-3

EXPLANATION

- ▲ Surface Soil Sample Location
- Borehole Sample Location
- IHSS 190
- Nearby IHSS
- N IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sereze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 4820
1 inch represents approximately 402 feet

50 0 100 200ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7767

Prepared by: DynCorp THE ART OF TECHNOLOGY

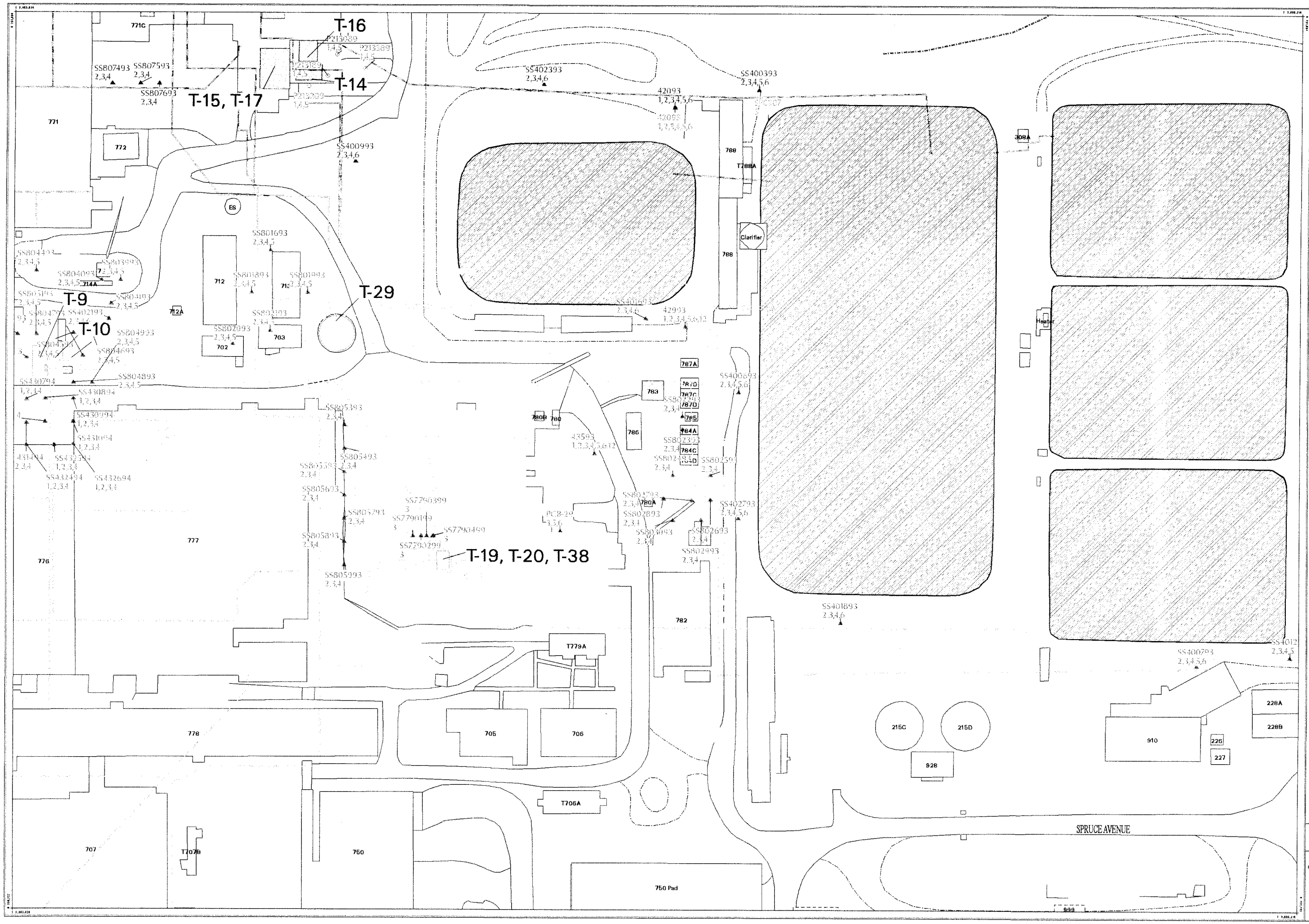
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

33



Map 12

IHSS 121

OPWL Tanks

IA Group 000-2, Tank 29
IA Group 700-3, Tanks 9 and 10
IA Group 700-4, Tanks 14, 15, 16 and 17
IA Group 700-7, Tanks 19, 20 and 38

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- Tank
- IA Boundary
- Original Process Waste Line (OPWL)

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
Tank/OPWL data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 1240
1 inch represents approximately 103 feet

25 0 50 100ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

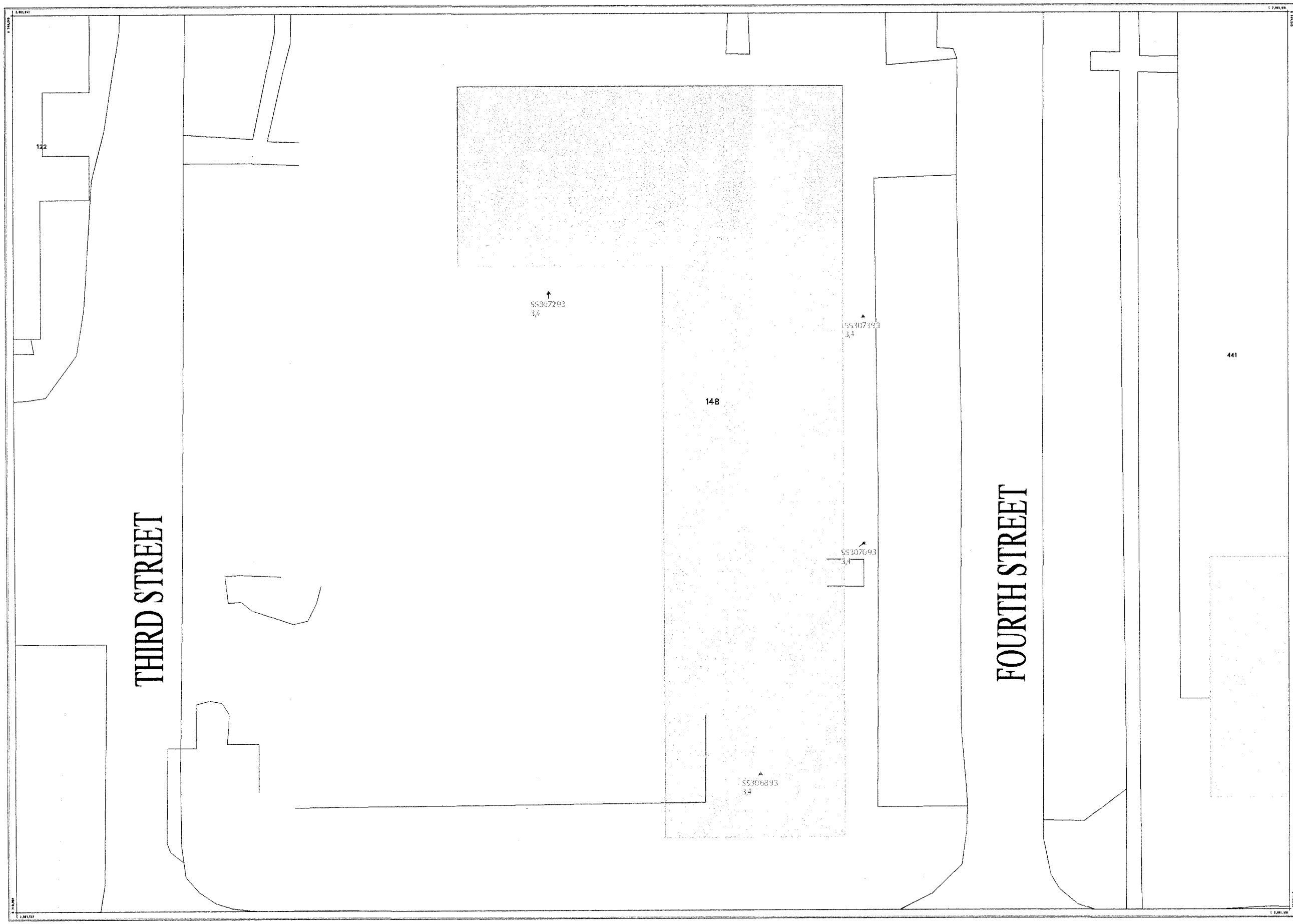
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/tanks-opwl-7.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/tanks-opwl-7.aml

34



Map 13
IHSS 148
Waste Spills
IA Group 000-4

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 148
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 330
1 inch represents approximately 28 feet

6 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site
GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225ihss.aml
September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

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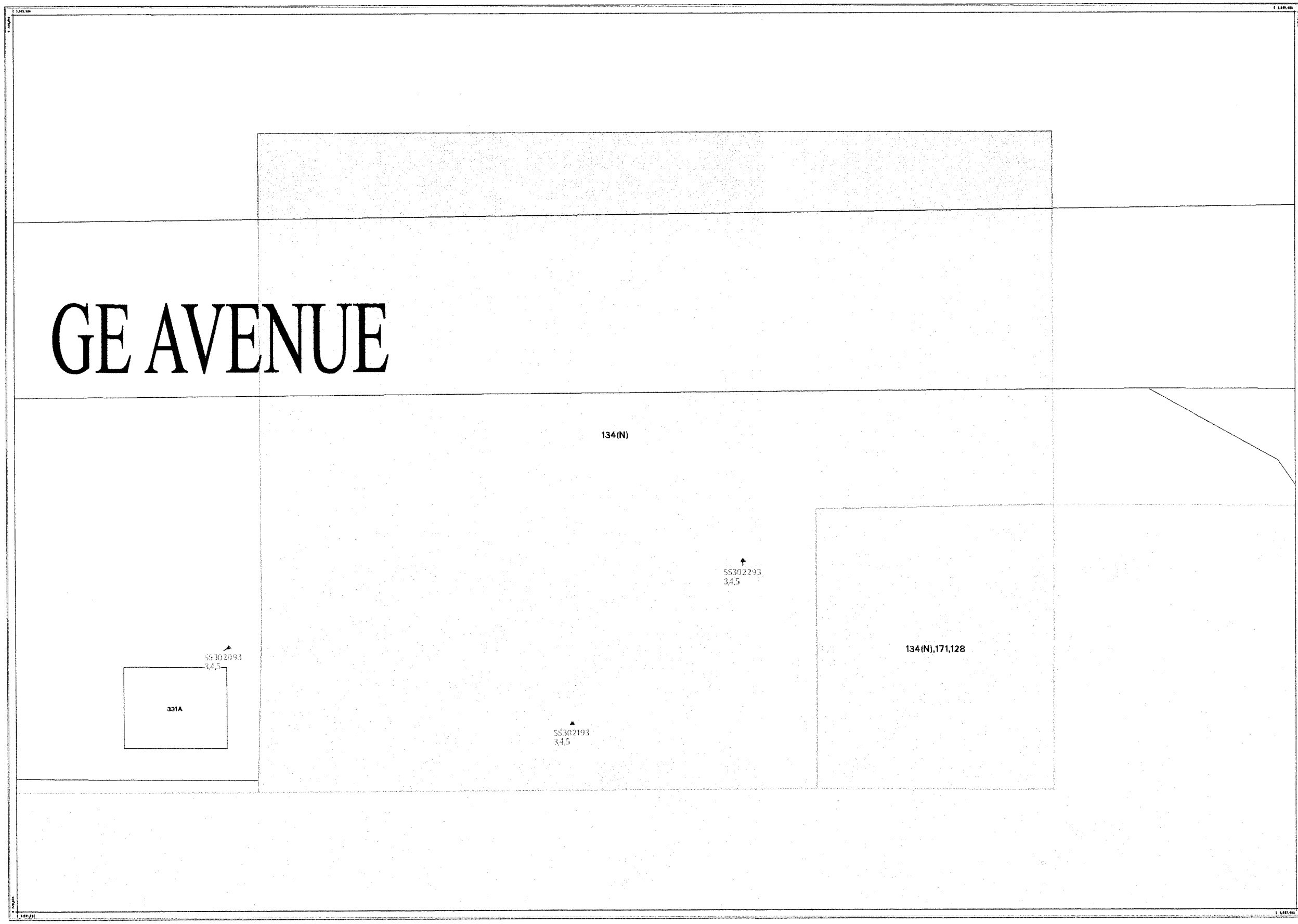


Map 14
IHSS 134(N)
Lithium Metal Destruction Site
IA Group 300-1

EXPLANATION

- ▲ Surface Soil Sample Location
- ○ Borehole Sample Location
- IHSS 134(N)
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarraze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 140
1 inch represents approximately 12 feet

2.5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

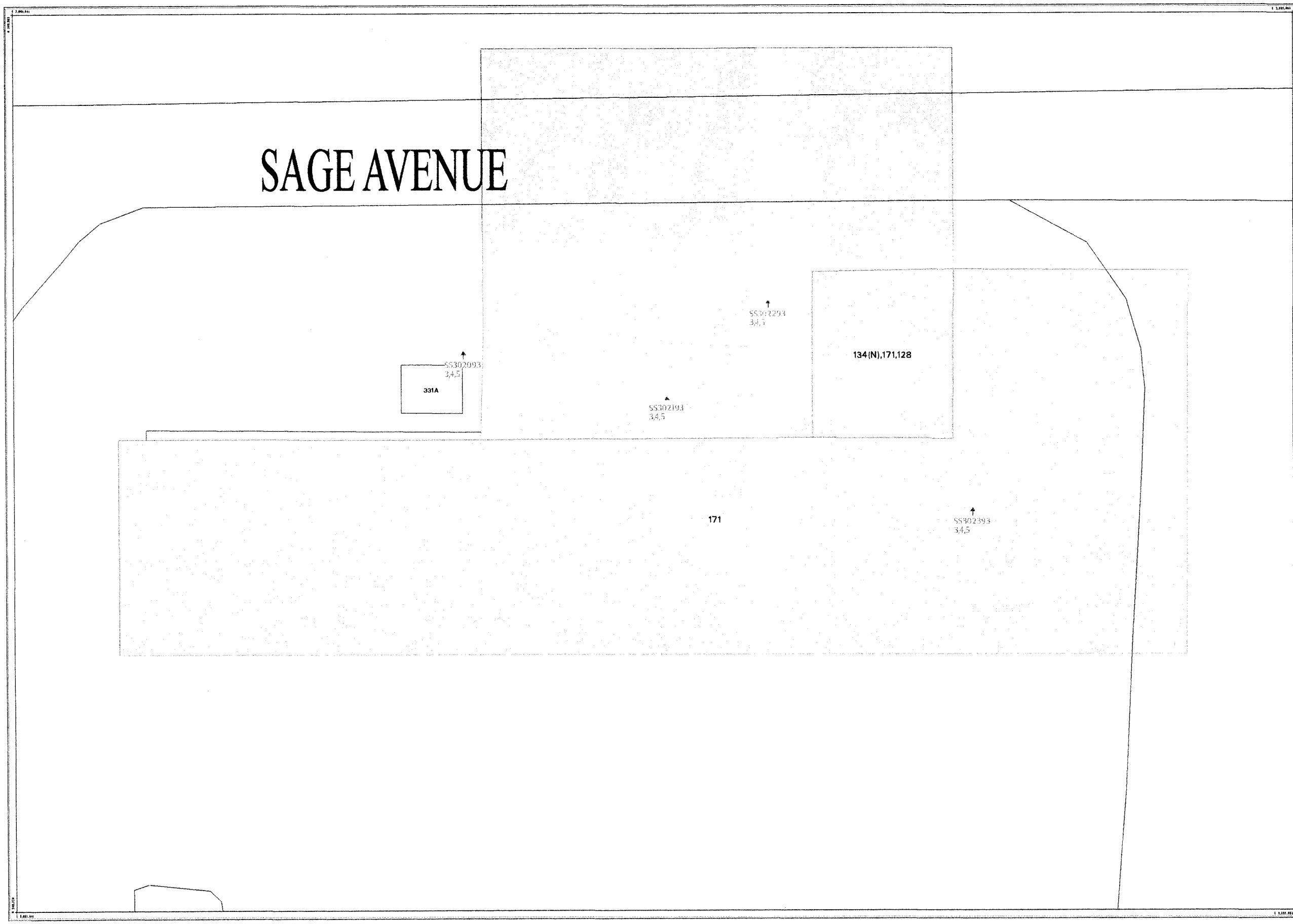
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

36



Map 15
IHSS 171
Solvent Burning Ground
IA Group 300-1

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 171
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 230
1 inch represents approximately 19 feet

2.5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

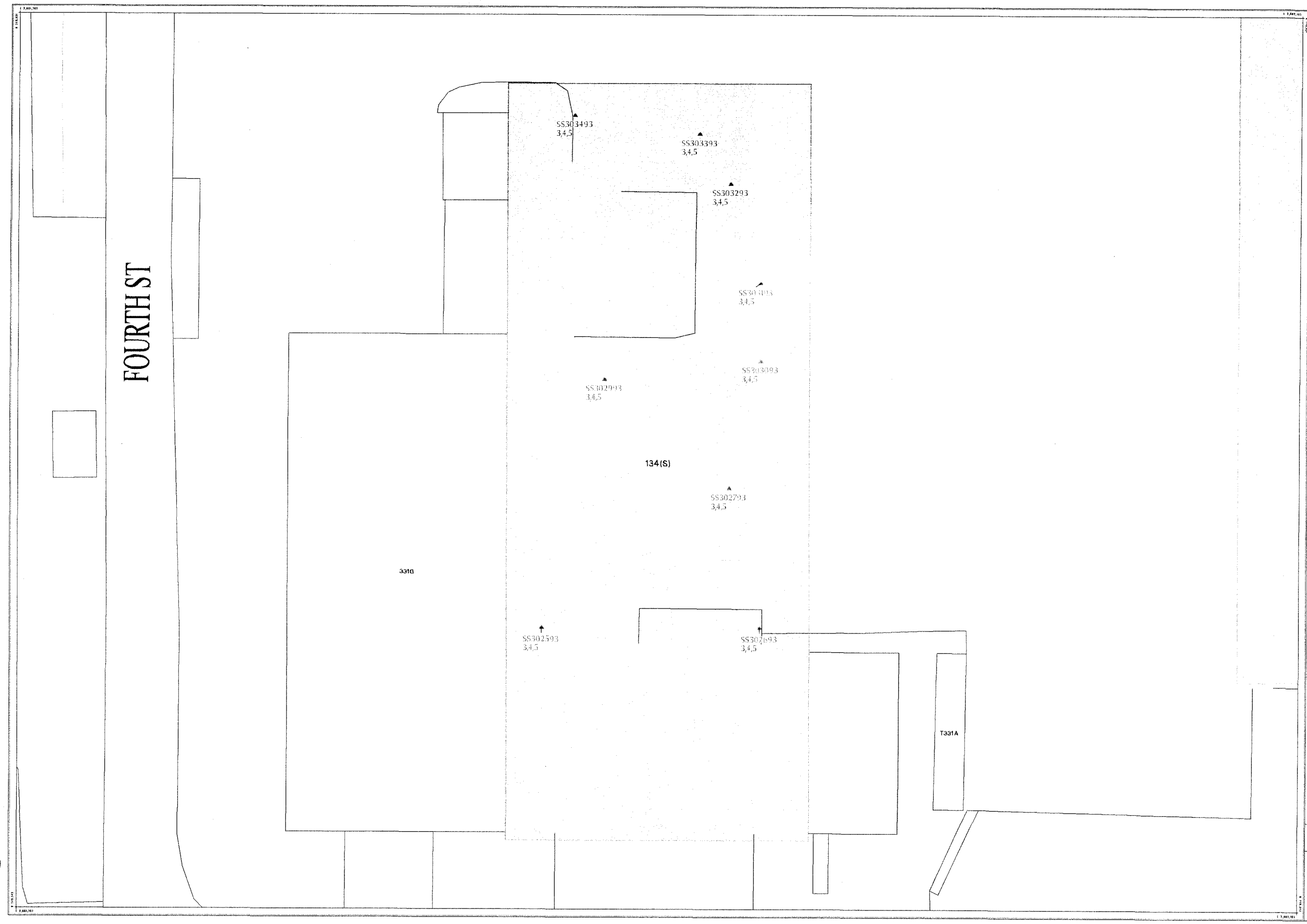
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

37



Map 16
IHSS 134(S)
Lithium Metal Destruction Site
IA Group 300-1

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 134(S)
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 370
1 inch represents approximately 31 feet

5 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

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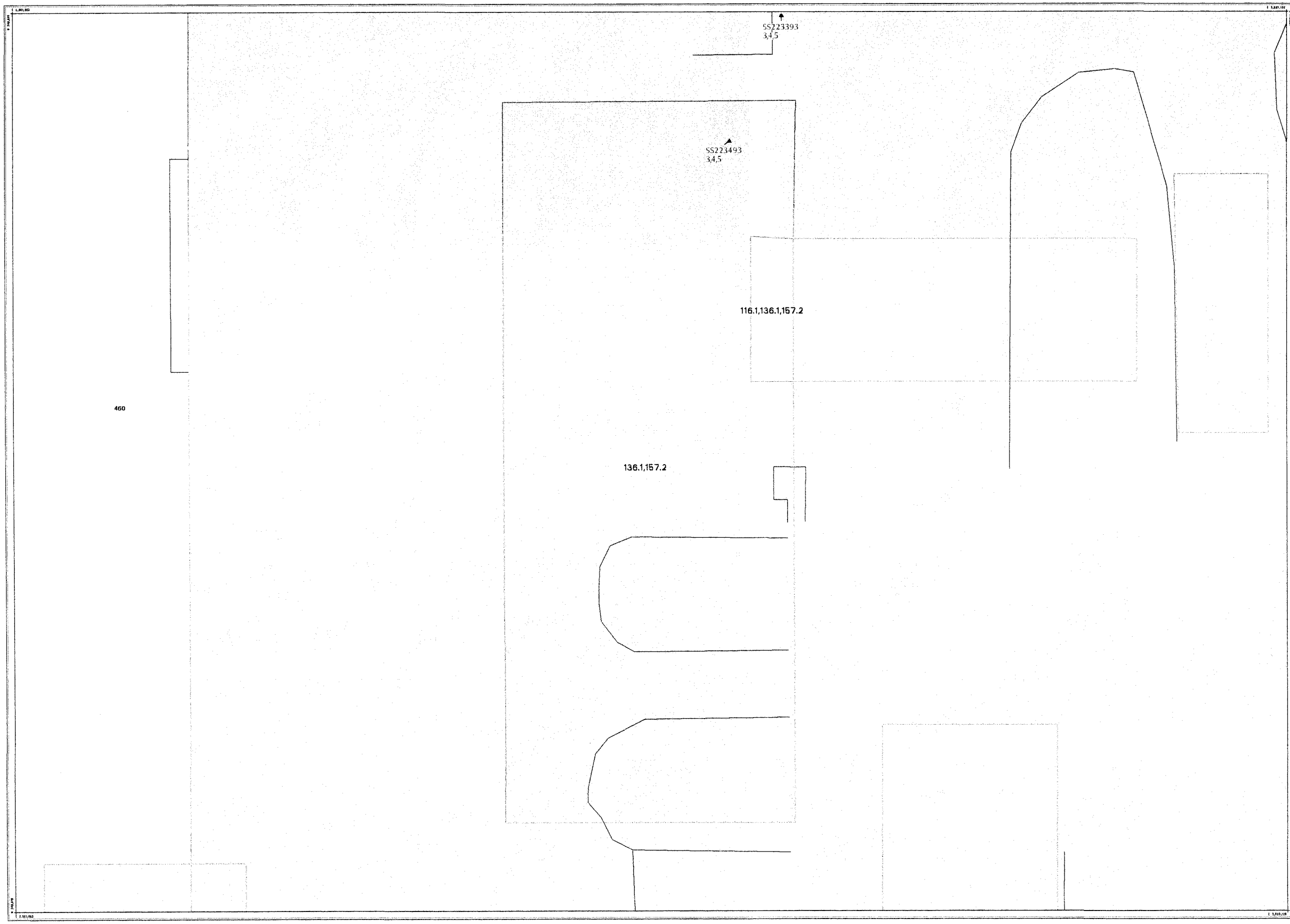


Map 17

IHSS 136.1

Cooling Tower Pond West of Building 444

IA Group 400-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 136.1
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3367.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 220
1 inch represents approximately 18 feet

2 5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

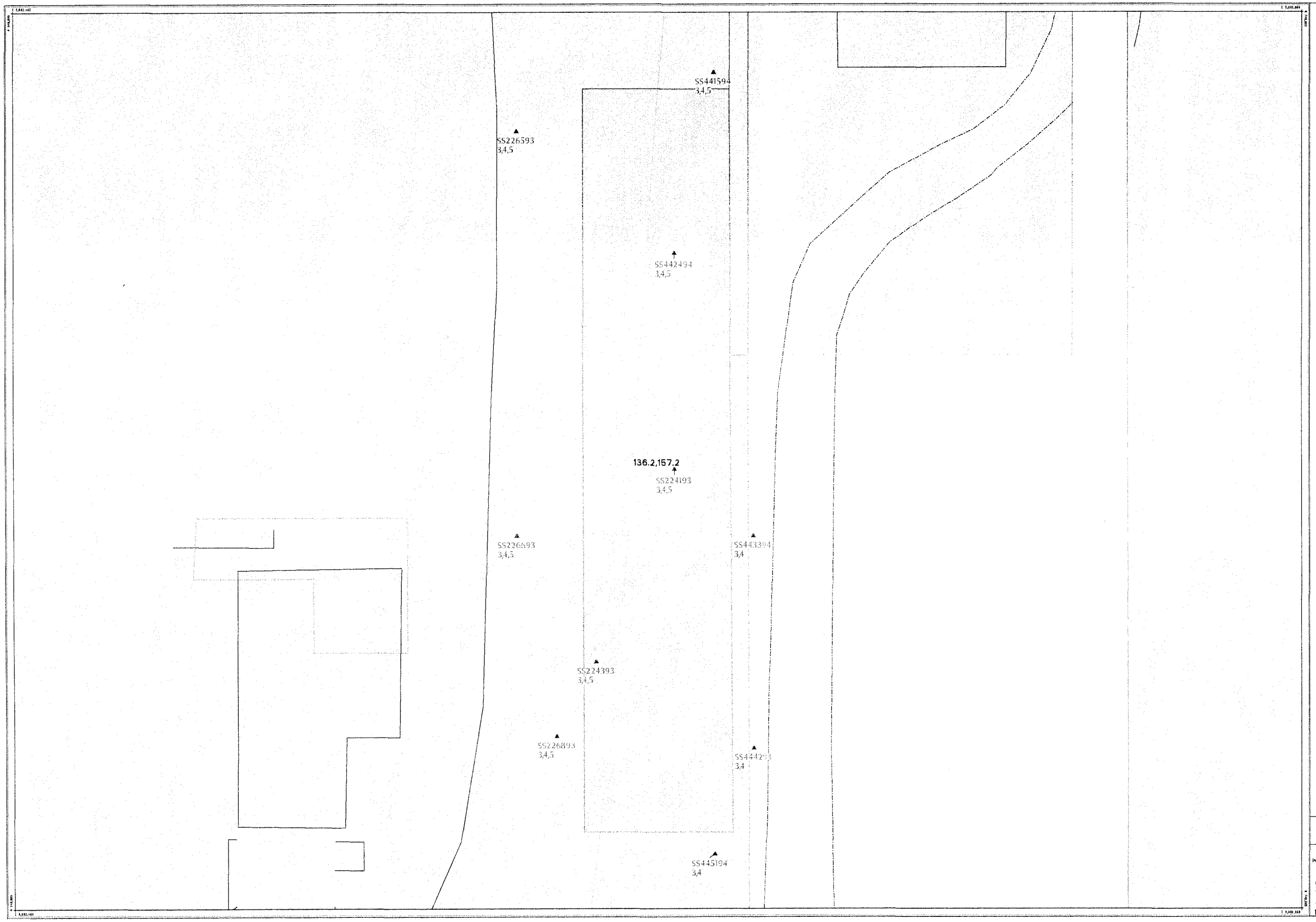
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

34



Map 18

IHSS 136.2

Cooling Tower Pond
East of Building 444

IA Group 400-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 136.2
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other *drainage features*
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 300
1 inch represents 25 feet

5 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

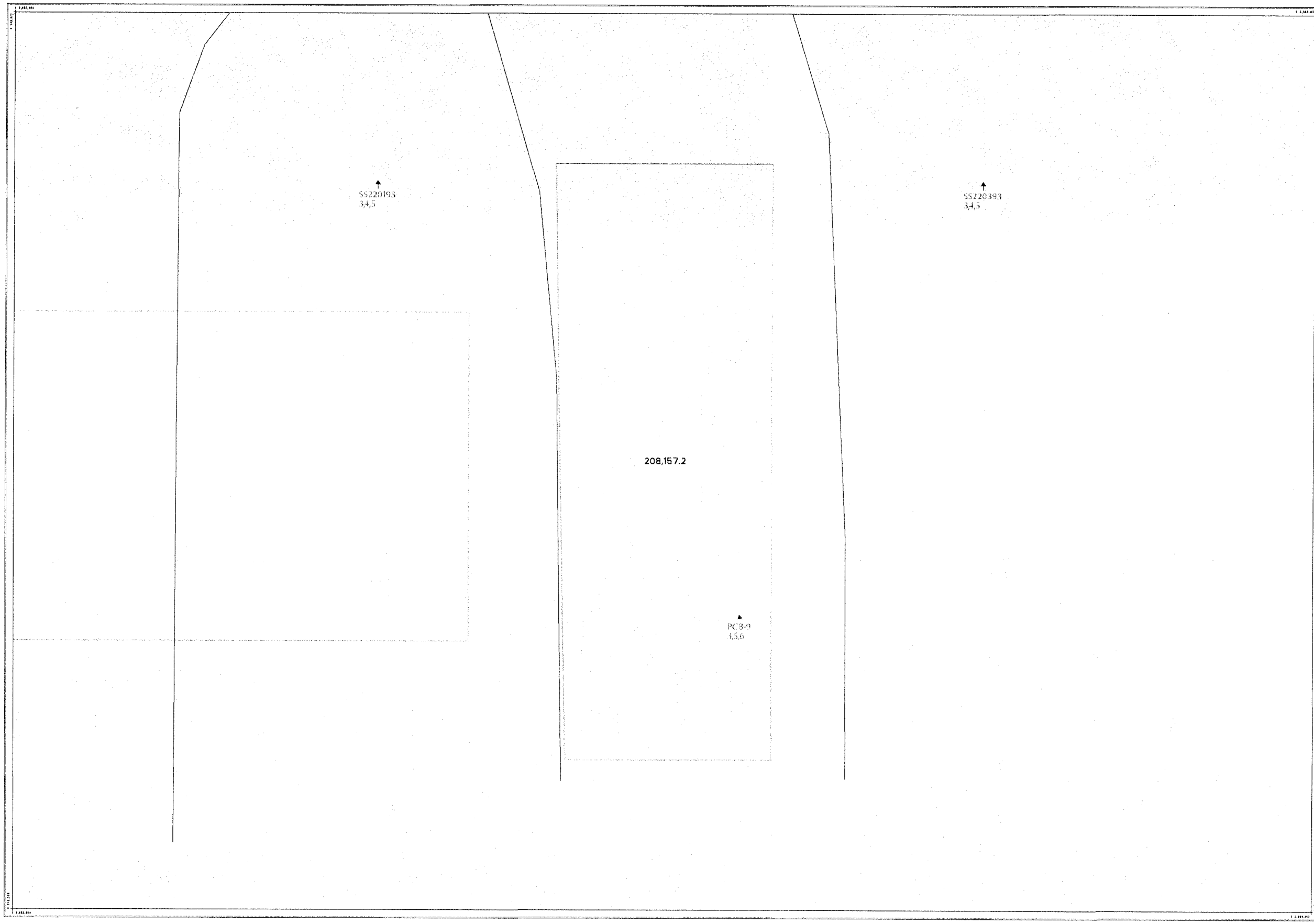
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

40



Map 19
IHSS 208
Inactive 444/447 Waste Storage Area
IA Group 400-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 208
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chomec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3367.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

N

Scale = 1 : 100
1 inch represents approximately 8 feet

1 0 2 4 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. (303)-966-7707

Prepared by:

DynCorp
THE ART OF TECHNOLOGY

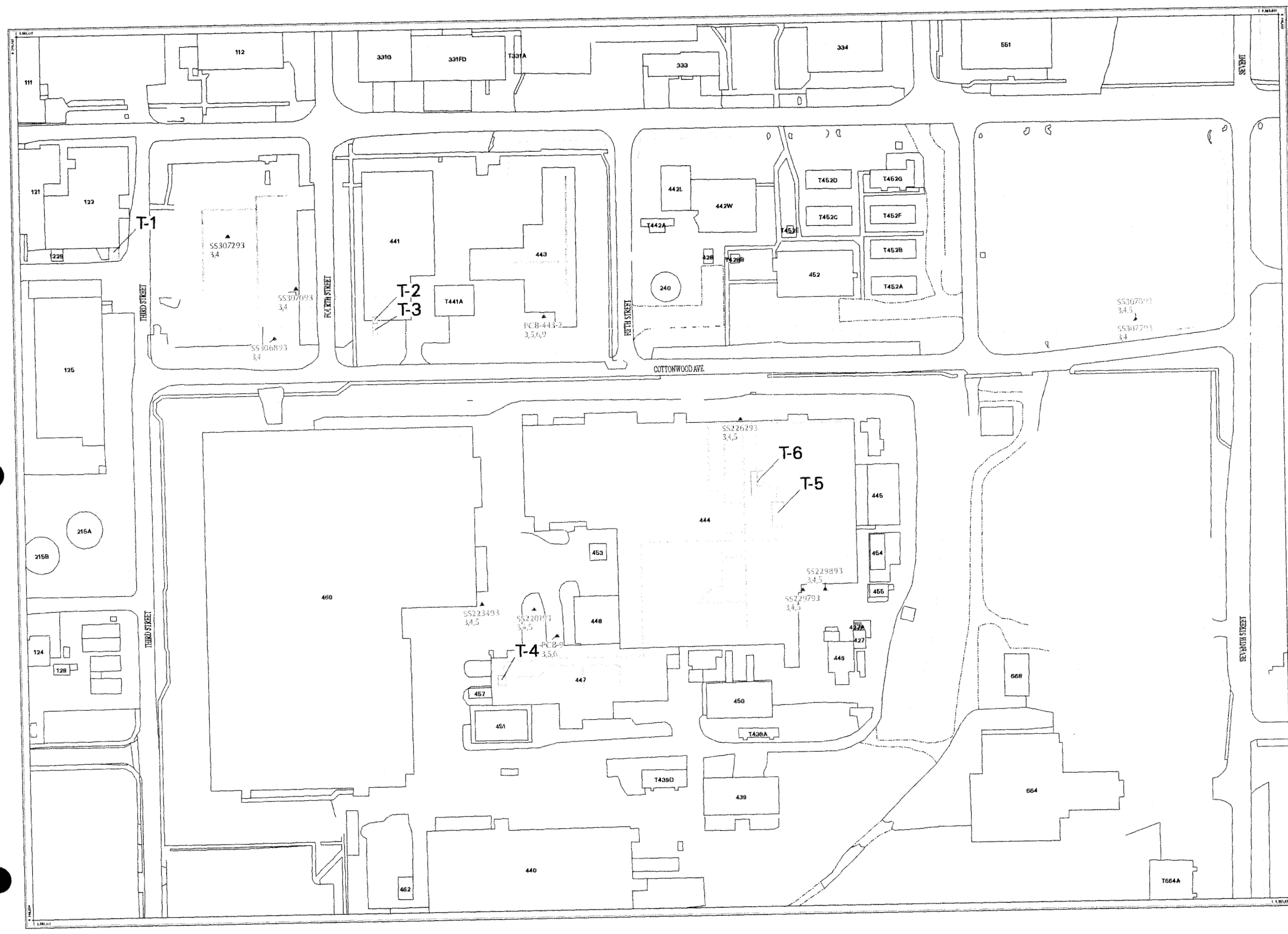
Prepared for:

KAISER-HILL

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml



Map 20
IHSS 121
OPWL Tanks

IA Group 000-3, Tank 1
IA Group 400-3, Tanks 4, 5 and 6
IA Group 400-8, Tanks 2 and 3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- Tank
- IA Boundary
- Original Process Waste Line (OPWL)

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sereze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
Tank/OPWL data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 1530
1 inch represents approximately 128 feet

25 0 50 100 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

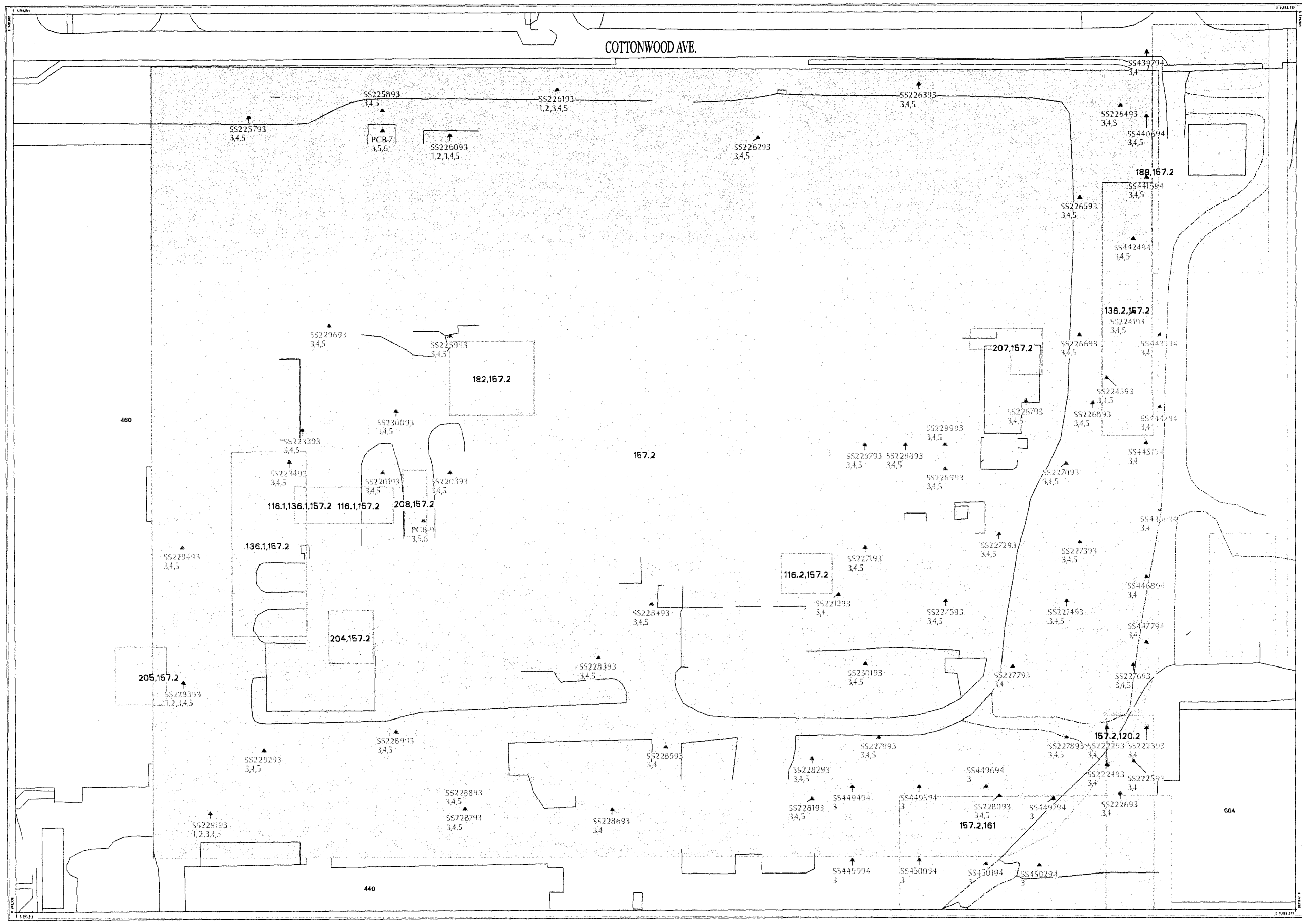
GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY
Prepared for: KAISER-HILL

MAP ID: 2k-0225/tanks-opwl-1.aml
September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/tanks-opwl-1.aml

42



Map 21

IHSS 157.2

Radioactive Site - South Area

IA Group 400-6

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 157.2
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4536.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 870
1 inch represents approximately 73 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

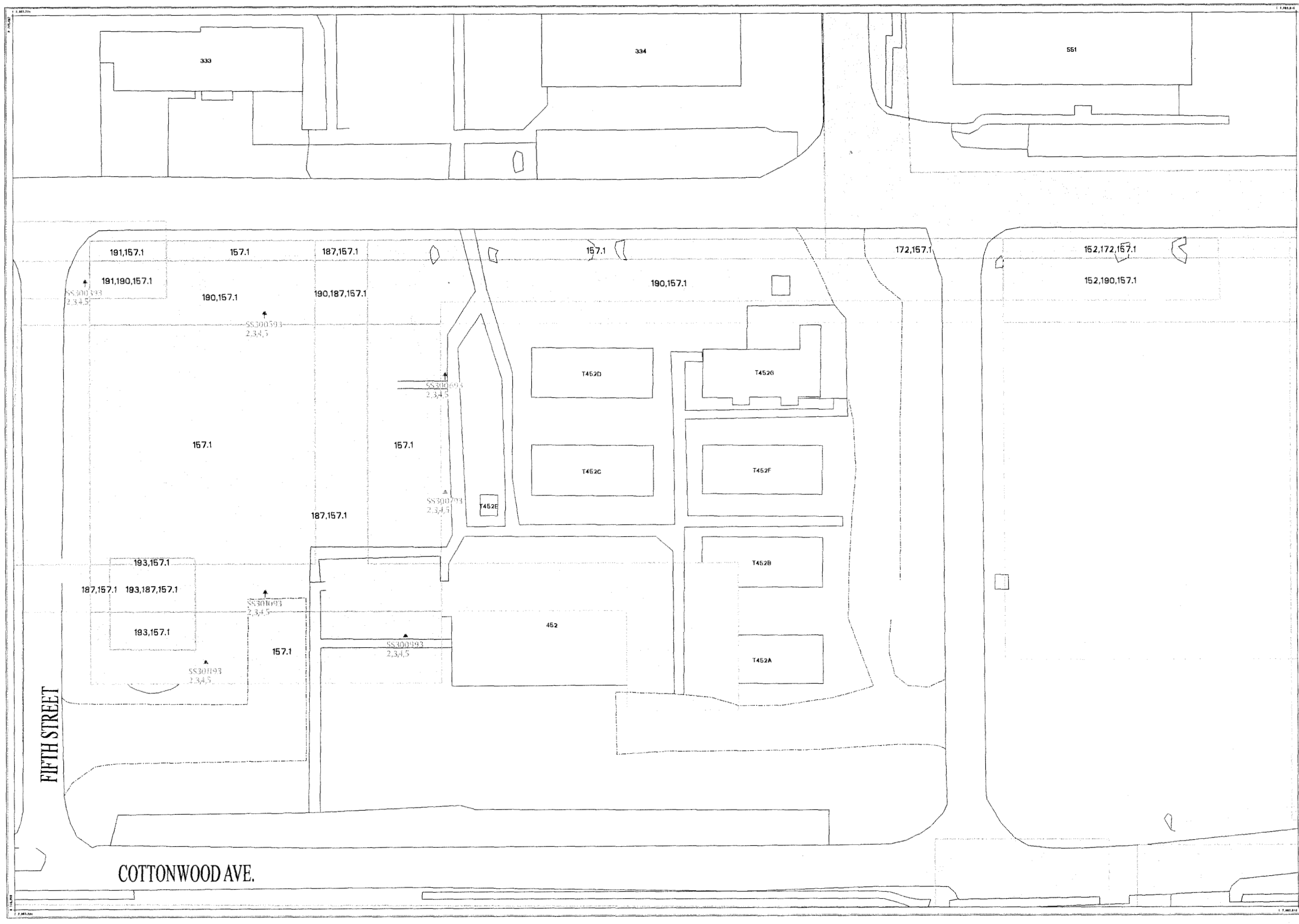
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

43



Map 22

IHSS 157.1

Radioactive Site - North Area

IA Group 400-7

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 157.1
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 580
1 inch represents approximately 48 feet

10 0 20 40ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

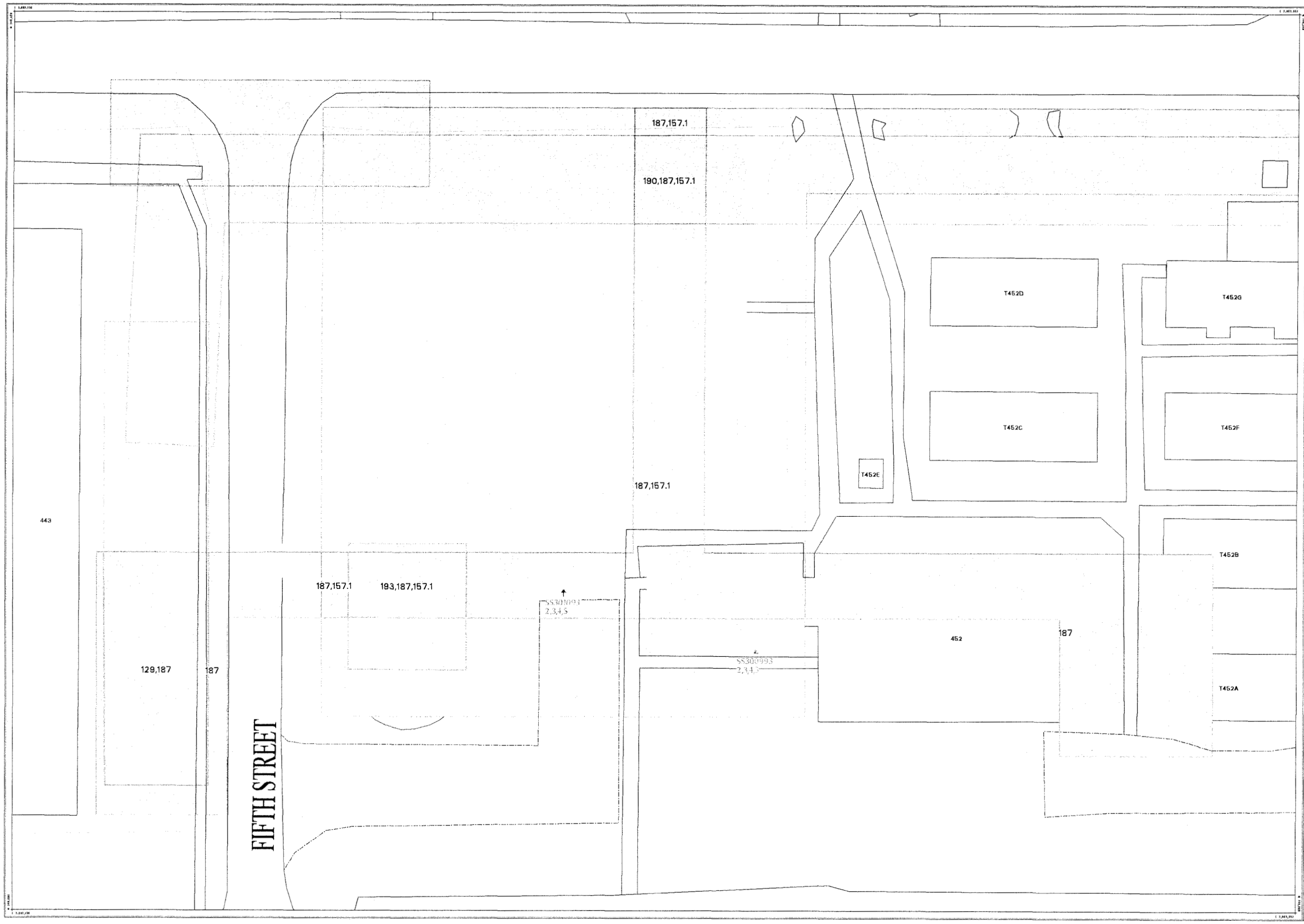
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

44



Map 23
IHSS 187
Sulfuric Acid Spill
IA Group 400-7

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 187
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sereze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4536.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

N

Scale = 1 : 420
1 inch represents 35 feet

5 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

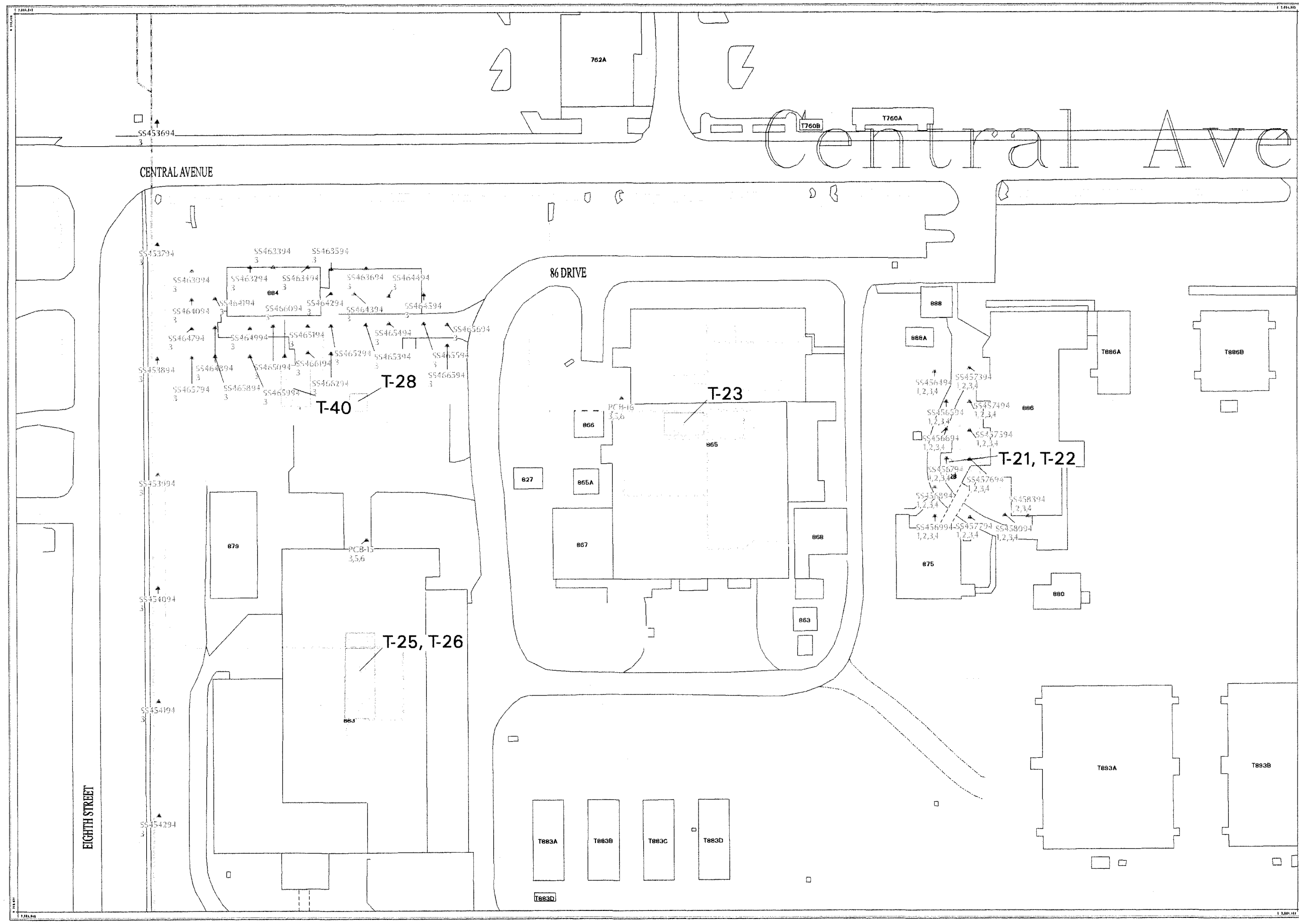
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

45



Map 24
IHSS 121
OPWL Tanks

IA Group 800-1, Tank 23
IA Group 800-3, Tanks 25 and 26
IA Group 800-4, Tanks 21 and 22
IA Group 800-6, Tanks 28 and 40

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- Tank
- IA Boundary
- Original Process Waste Line (OPWL)

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
Tank/OPWL data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 1000
1 inch represents approximately 83 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

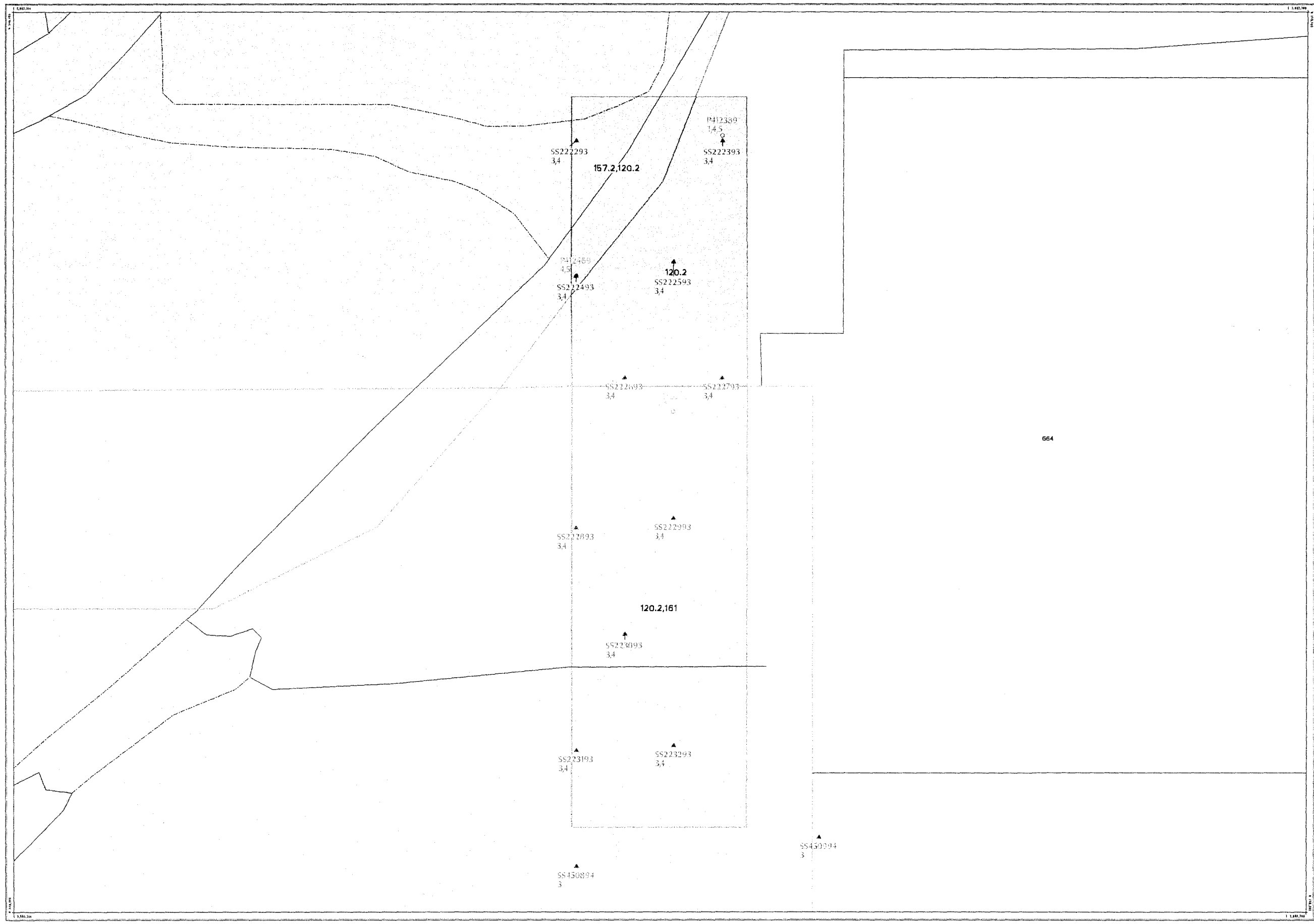
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/tanks-opwl-2.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/tanks-opwl-2.aml

46



Map 25

IHSS 120.2

Fiberglassing Area West of Building 664

IA Group 400-10

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 120.2
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 240
1 inch represents 20 feet

2 5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7767

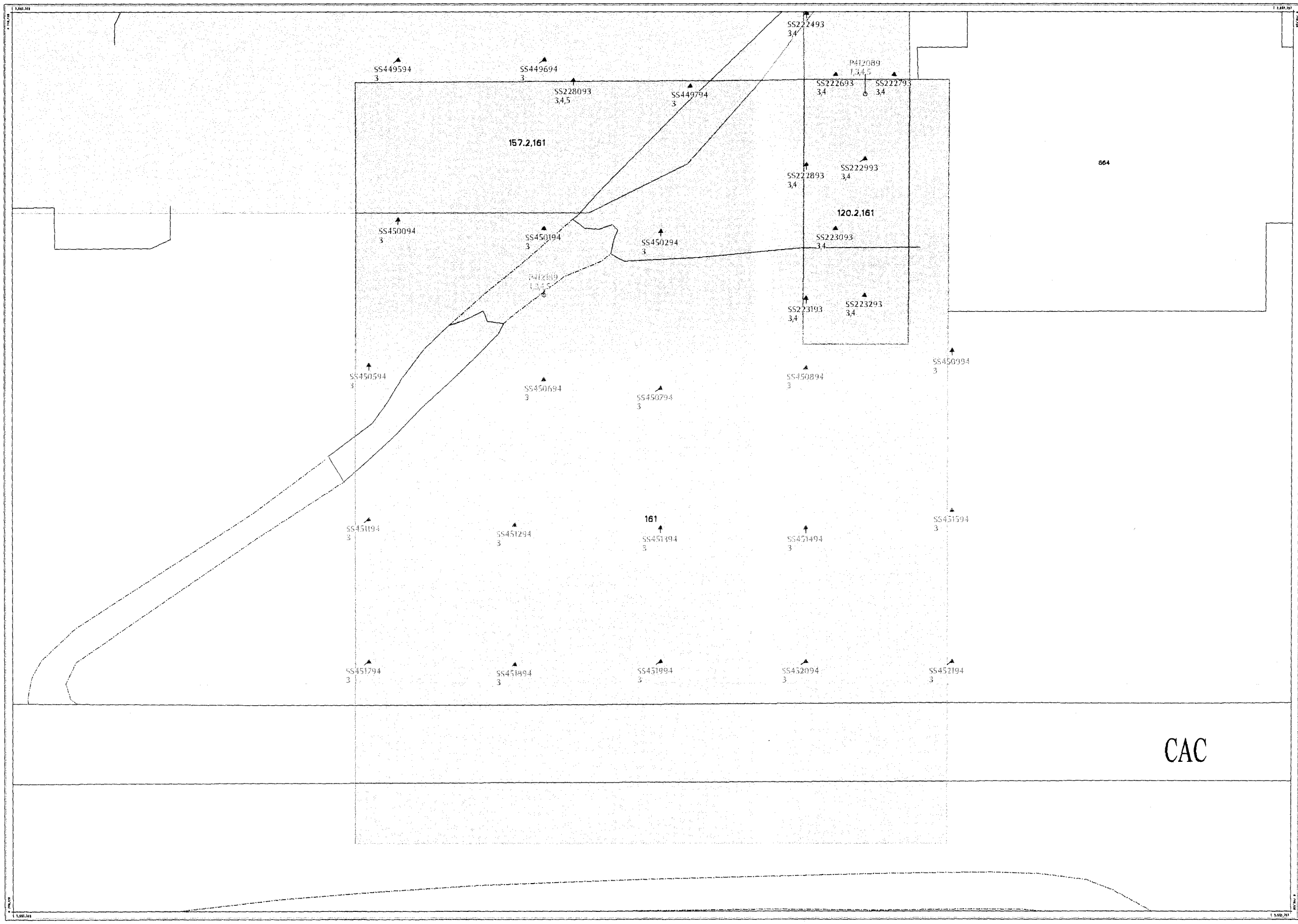
Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml



Map 26

IHSS 161

Radioactive Site - Building 664

IA Group 400-10

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 161
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadie Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chiomec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 400
1 inch represents approximately 33 feet

5 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

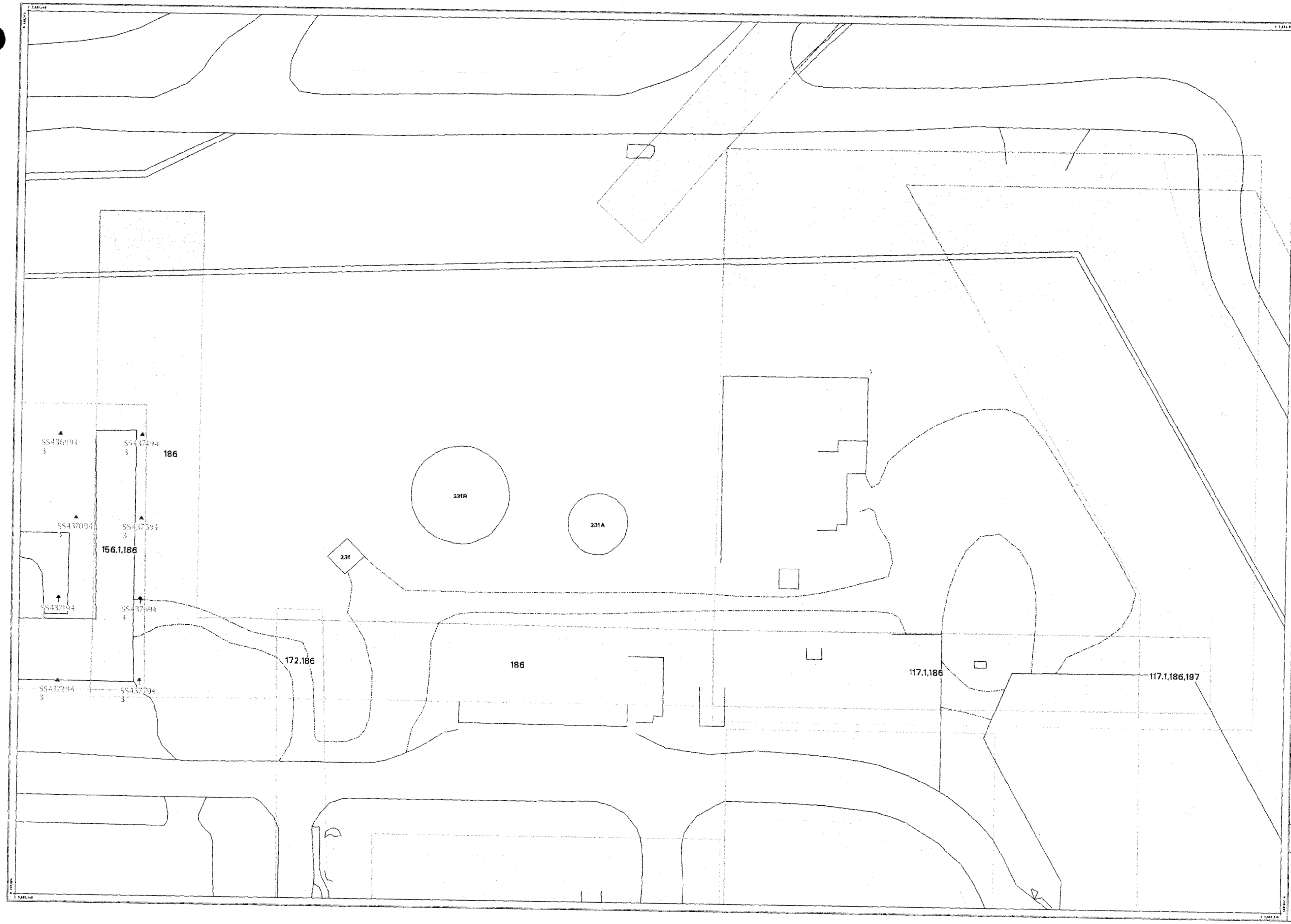
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

48



Map 27
IHSS 186
Valve Vault 12
IA Group 500-1

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 186
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3367.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 700
1 inch represents approximately 58 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

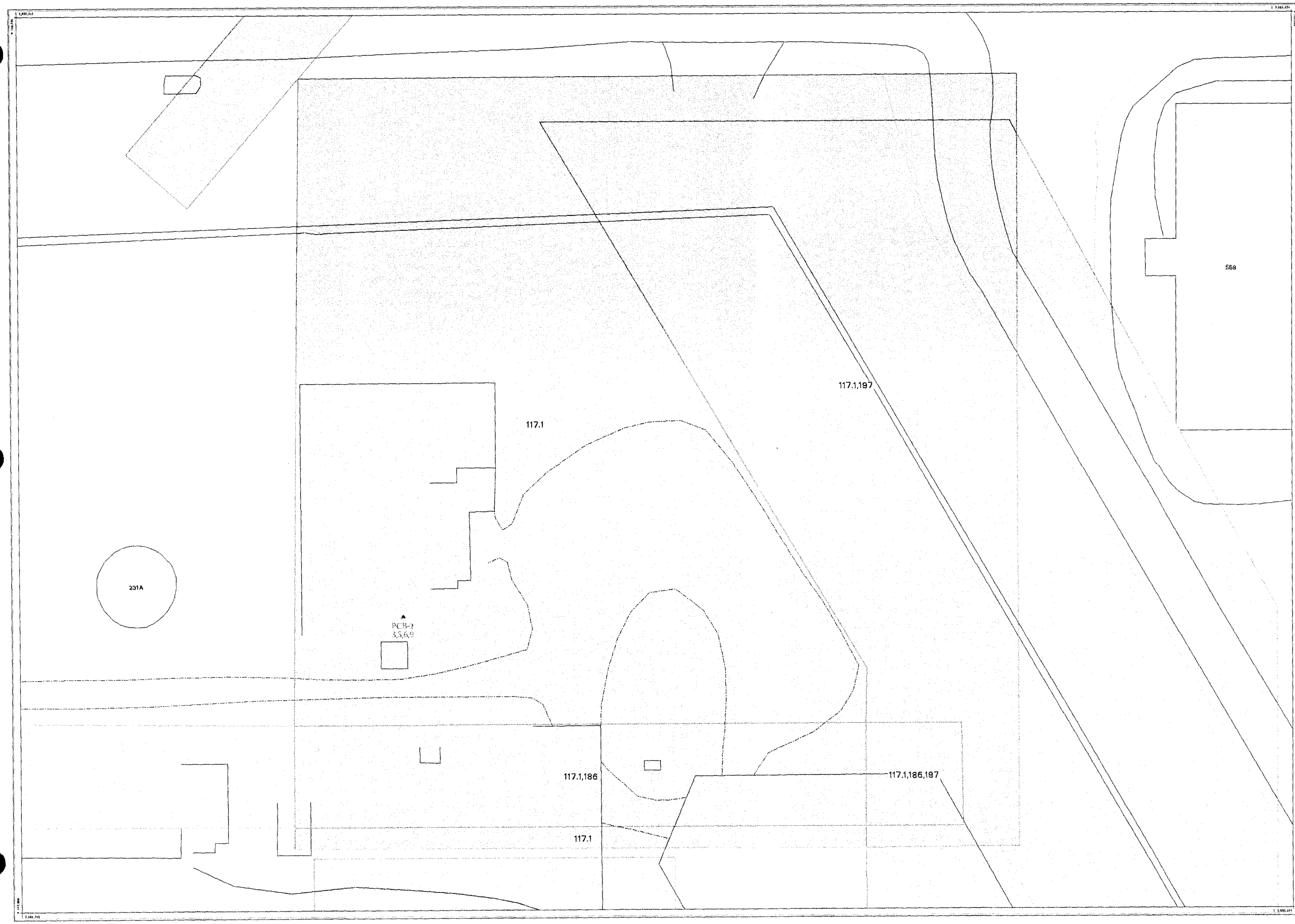
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

49



Map 28
IHSS 117.1
North Site Chemical Storage
IA Group 500-1

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 117.1
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 520
1 inch represents approximately 43 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

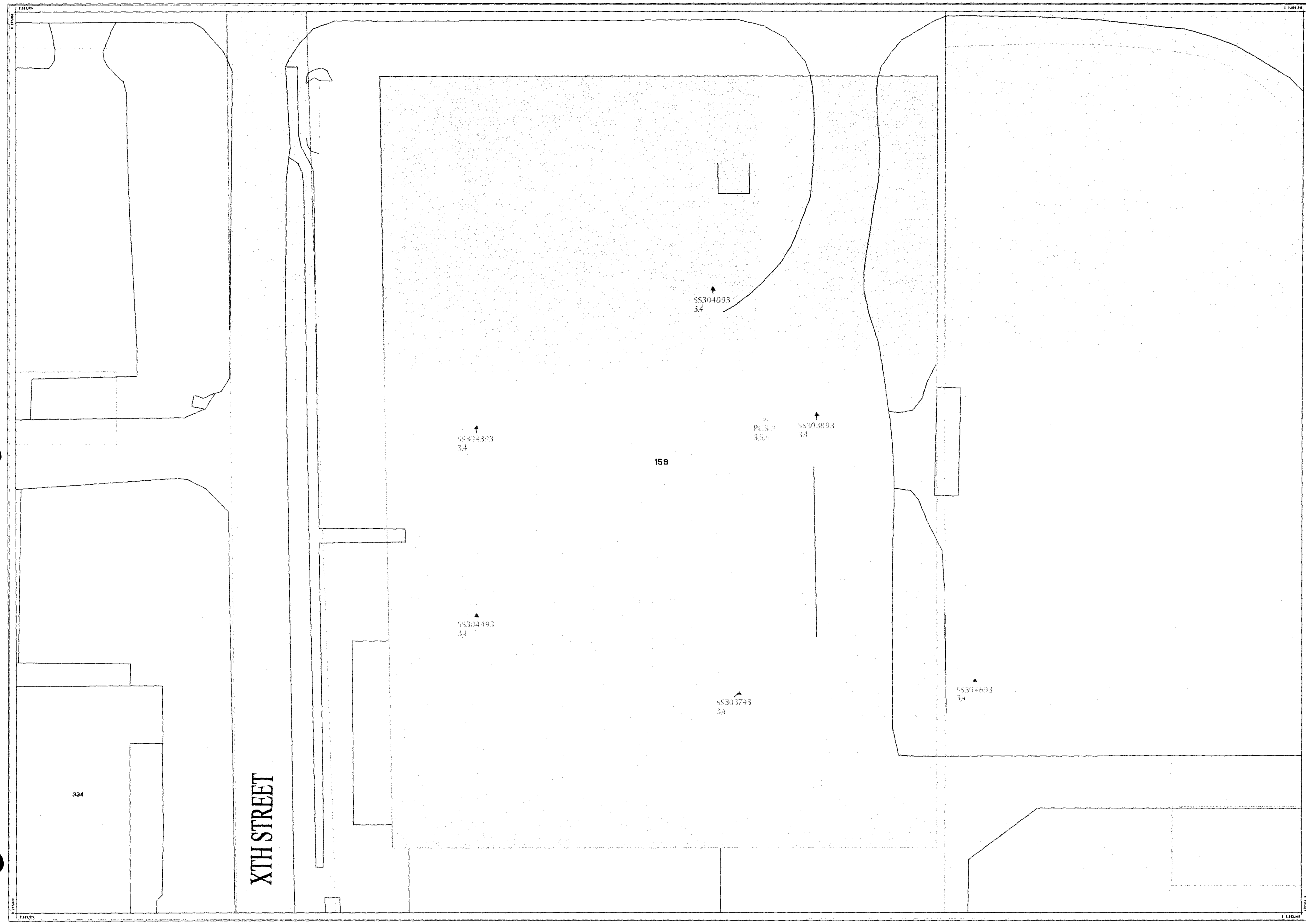
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

50



Map 29

IHSS 158

Radioactive Site - Building 551

IA Group 500-2

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 158
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serrete (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 440
1 inch represents approximately 37 feet

5 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7767

Prepared by: DynCorp — THE ART OF TECHNOLOGY

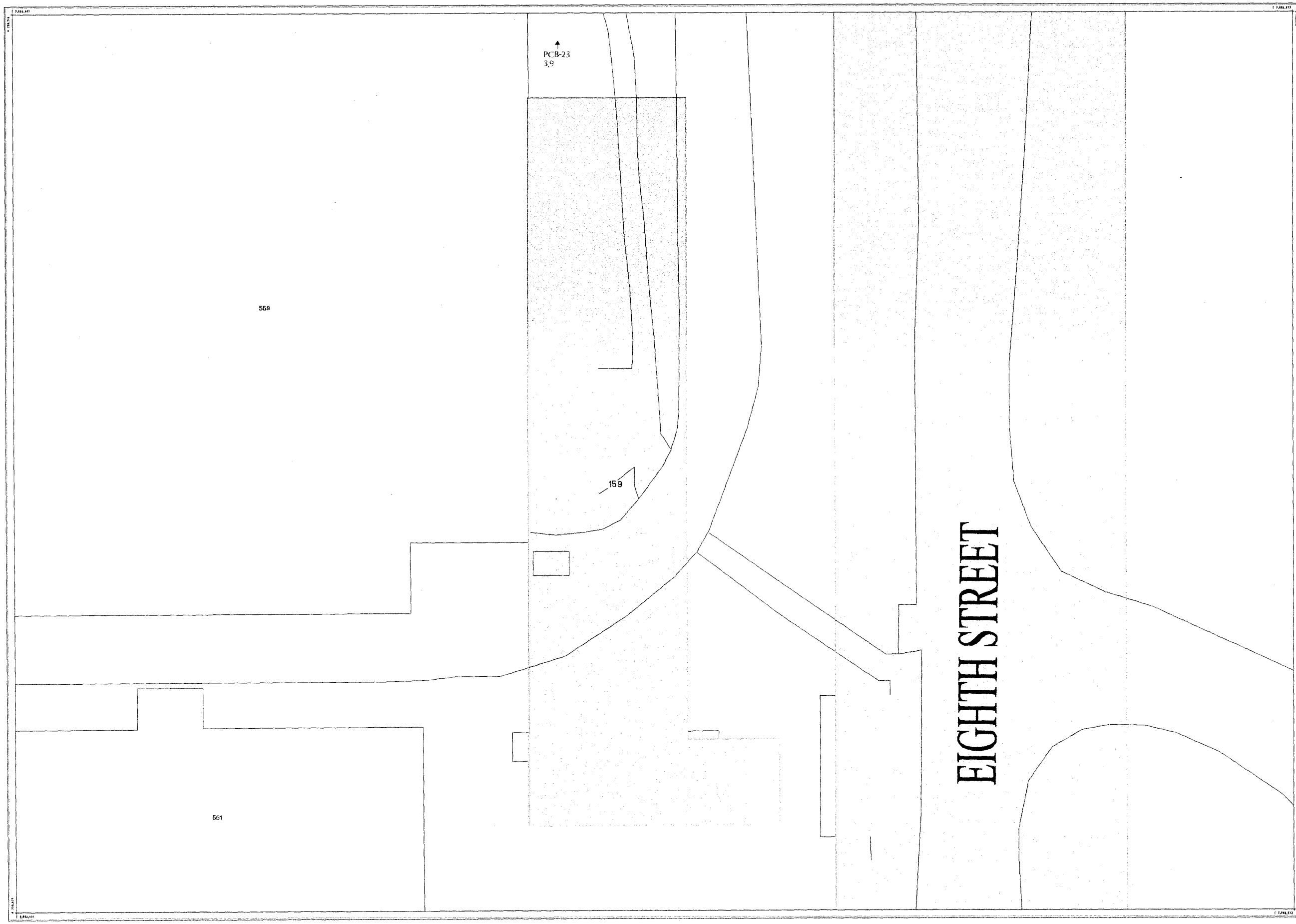
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

51



Map 30

IHSS 159

Radioactive Site - Building 559

IA Group 500-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 159
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 240
1 inch represents 20 feet

25 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7767

Prepared by: DynCorp THE ART OF TECHNOLOGY

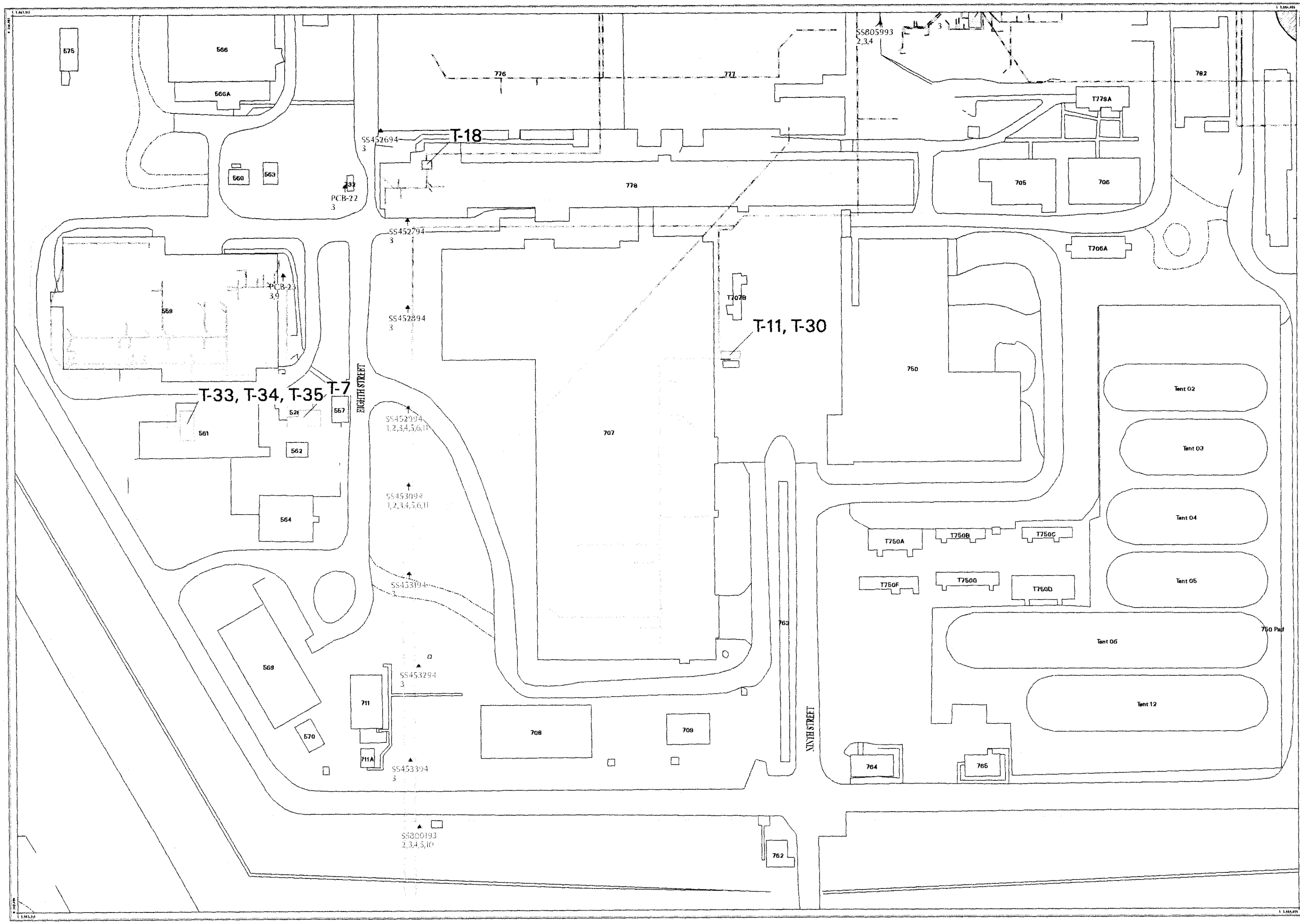
Prepared for: KAISER-HILL COMPANY

MAP ID: 2K-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

52



Map 31
IHSS 121
OPWL Tanks

IA Group 500-3, Tanks 7, 33, 34 and 35
IA Group 700-2, Tanks 11 and 30
IA Group 700-3, Tank 18

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- Tank
- IA Boundary
- Original Process Waste Line (OPWL)

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromiec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
Tank/OPWL data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 1300
1 inch represents approximately 108 feet

25 0 50 100ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/tanks-opwl-4.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/tanks-opwl-4.aml

53

Map 32
IHSS 117.2
Middle Site Chemical Storage
IA Group 500-4

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 117.2
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 820
1 inch represents approximately 68 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

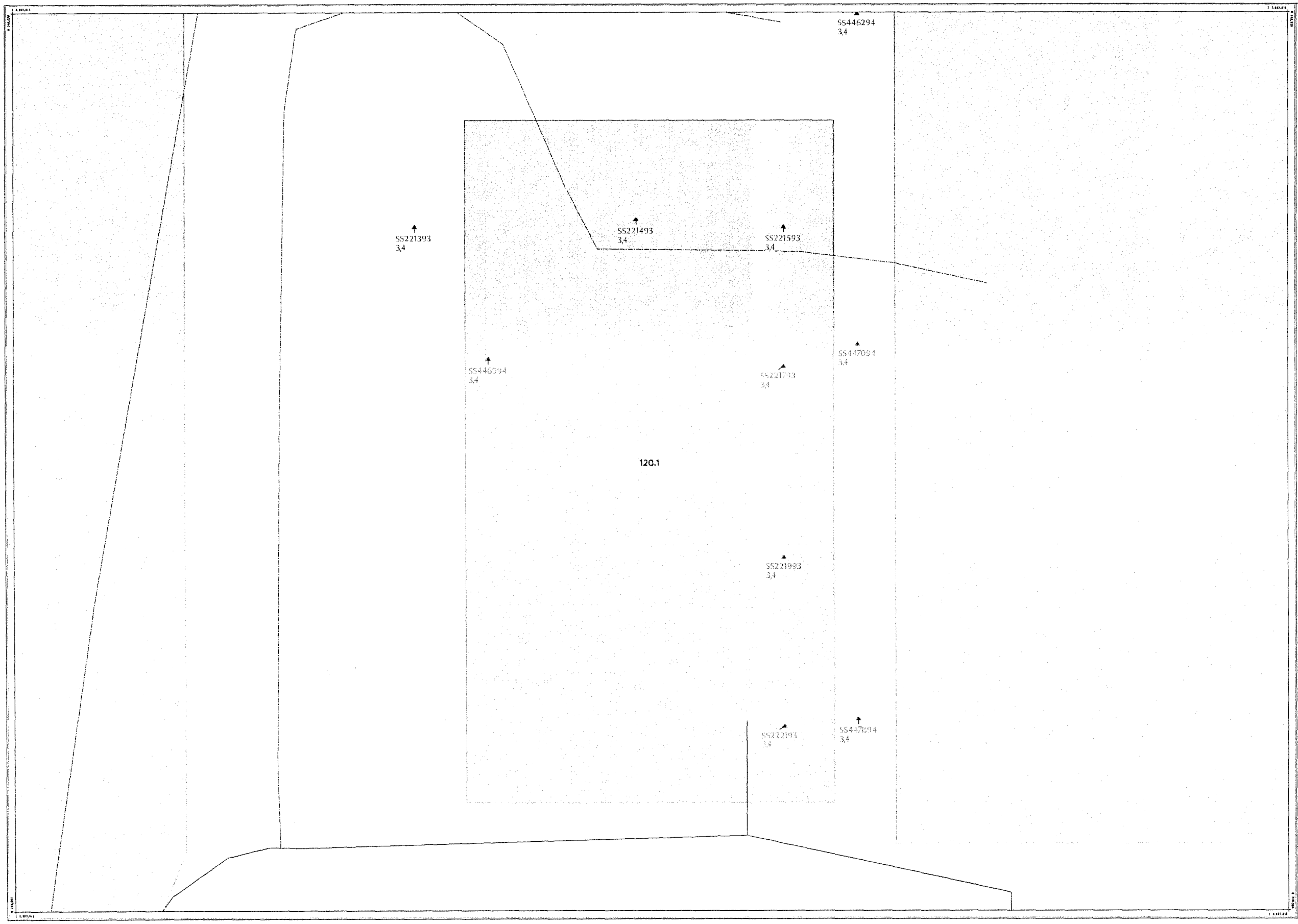
Prepared for: KAISER•HILL COMPANY

MAP ID: 2k-0225/ihss.ami

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

54



Map 33

IHSS 120.1

Fiberglassing Area North of Building 664

IA Group 600-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 120.1
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromiec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 160
1 inch represents approximately 13 feet

2 5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

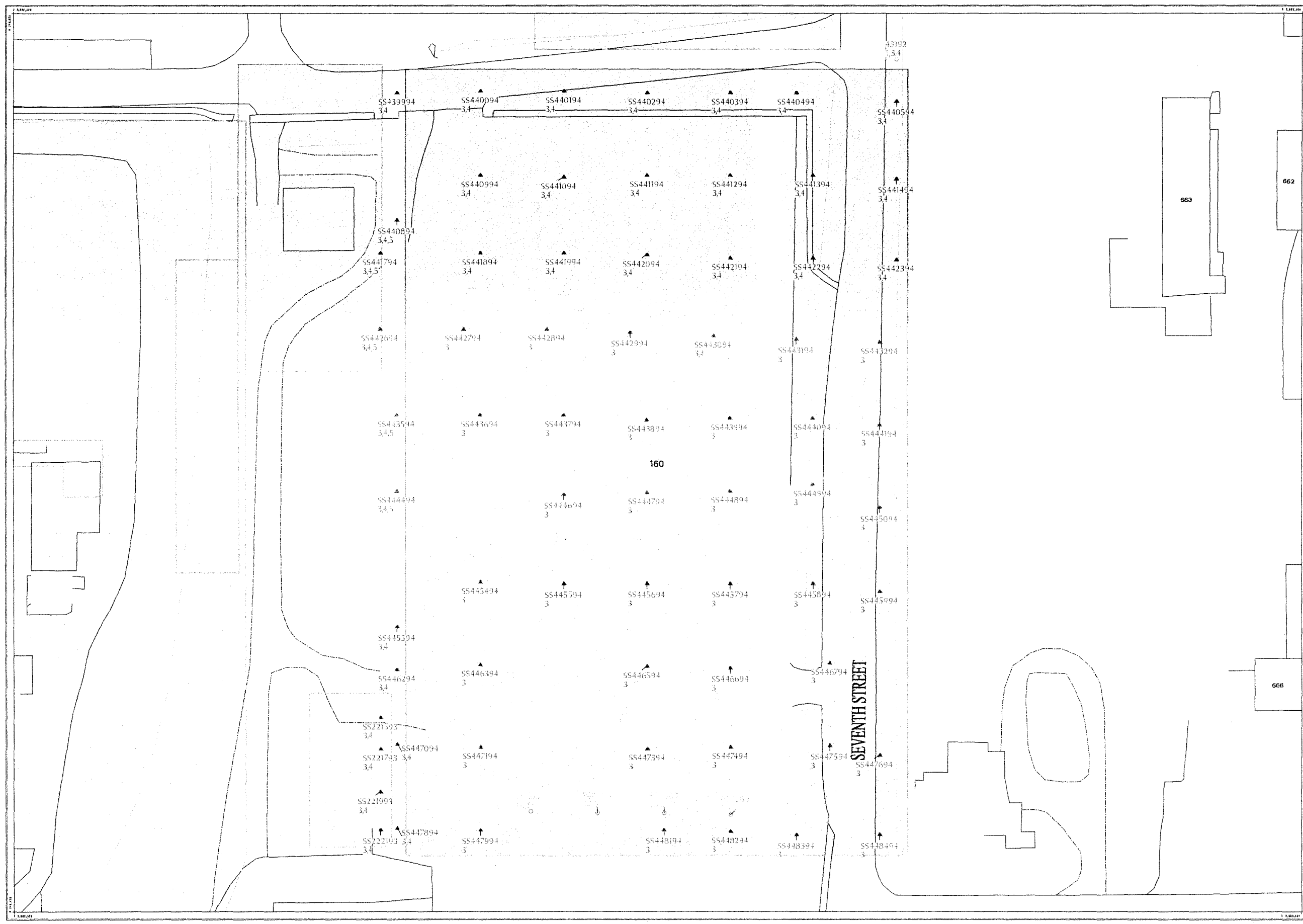
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

55



Map 34
IHSS 160
Radioactive Site - Building 444 Parking Lot
IA Group 600-4

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 160
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 700
1 inch represents approximately 58 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

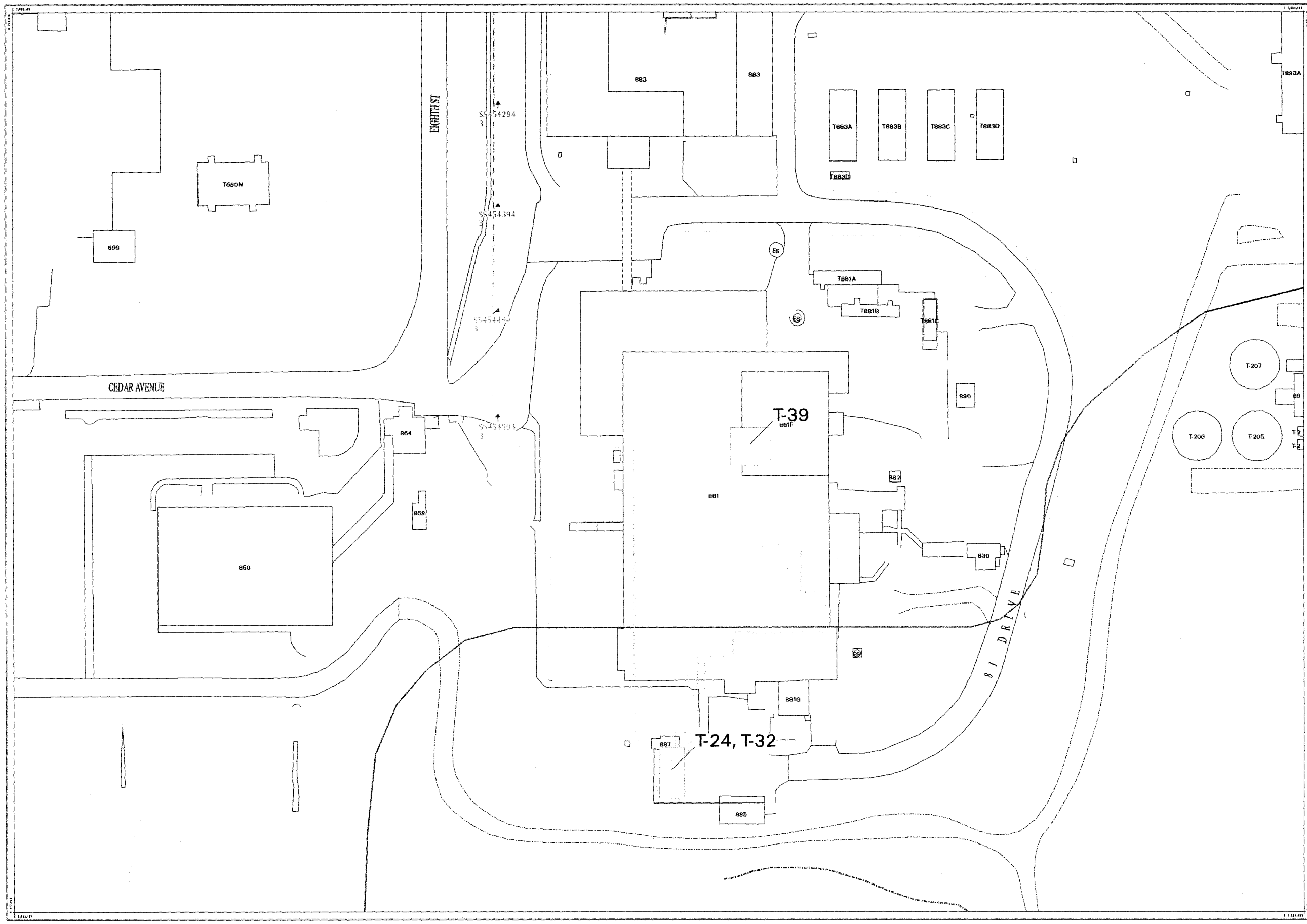
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

54



Map 35
IHSS 121
OPWL Tanks
IA Group 800-2, Tanks 24, 32 and 39

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- Tank
- IA Boundary
- Original Process Waste Line (OPWL)

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
Tank/OPWL data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 1140
1 inch represents 95 feet

25 0 50 100 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

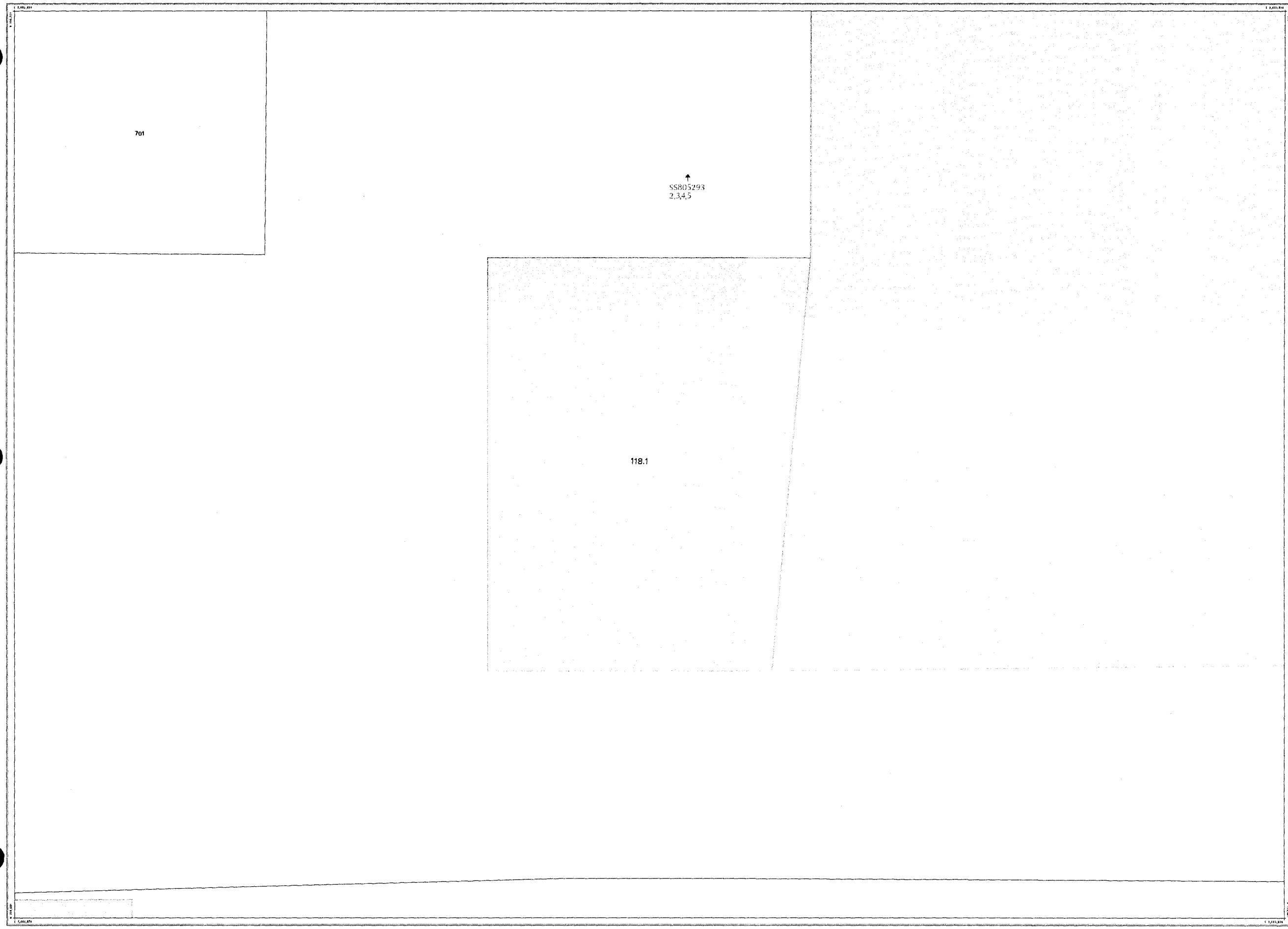
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/tanks-opwl-3.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/tanks-opwl-3.aml

57



Map 36

IHSS 118.1

Multiple Solvent Spills West of Building 730

IA Group 700-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 118.1
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-6223 and Susan Salteze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 50
1 inch represents approximately 4 feet

0 .5 0 1 2 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

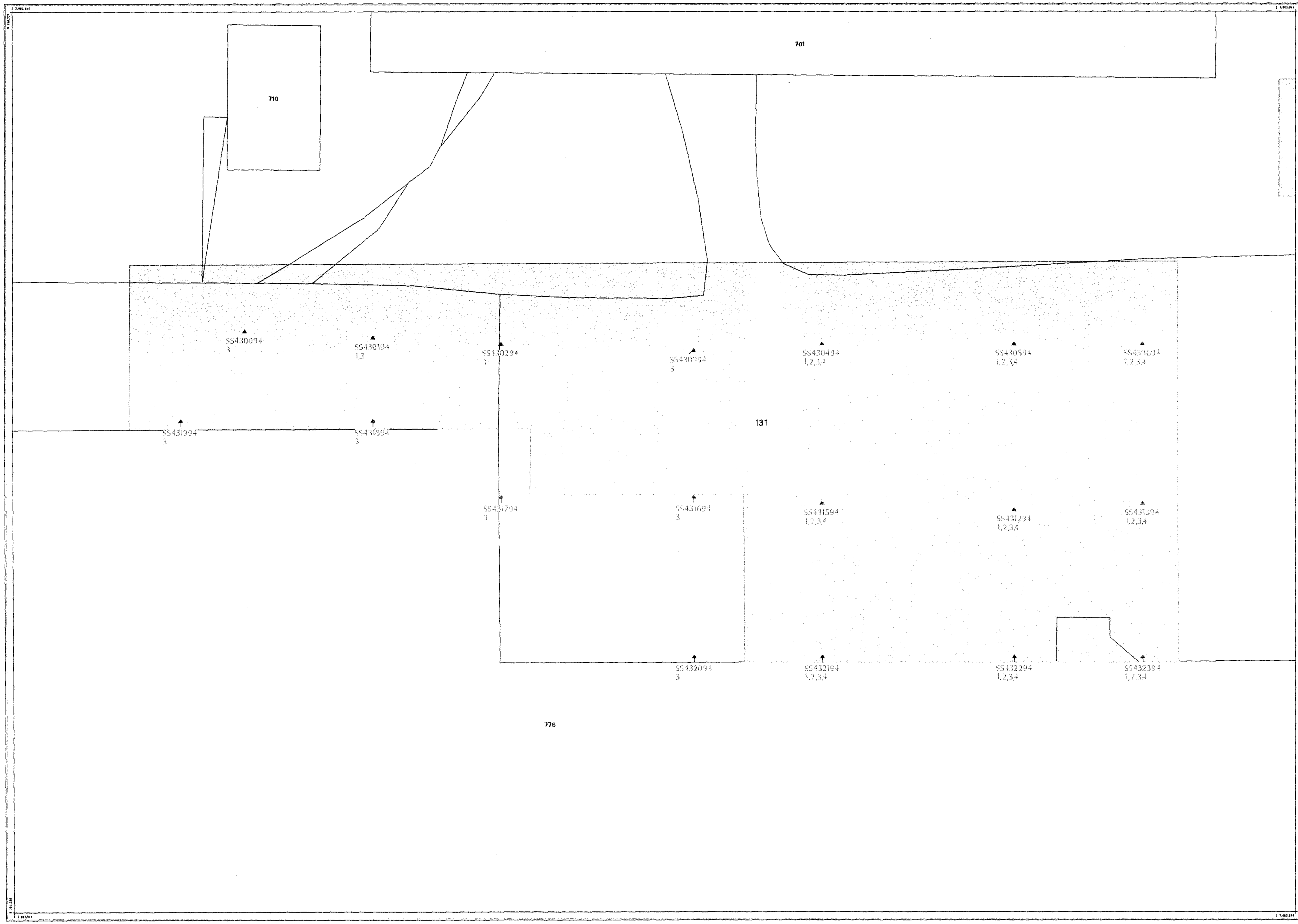
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

58



Map 37

IHSS 131

Radioactive Site - 700 Area Site #1

IA Group 700-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 131
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:

Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.

Surface Soil Locations approved by Win Chiomec (RMRS) 303-966-4535.

Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.

IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 180
1 inch represents 15 feet

2 5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

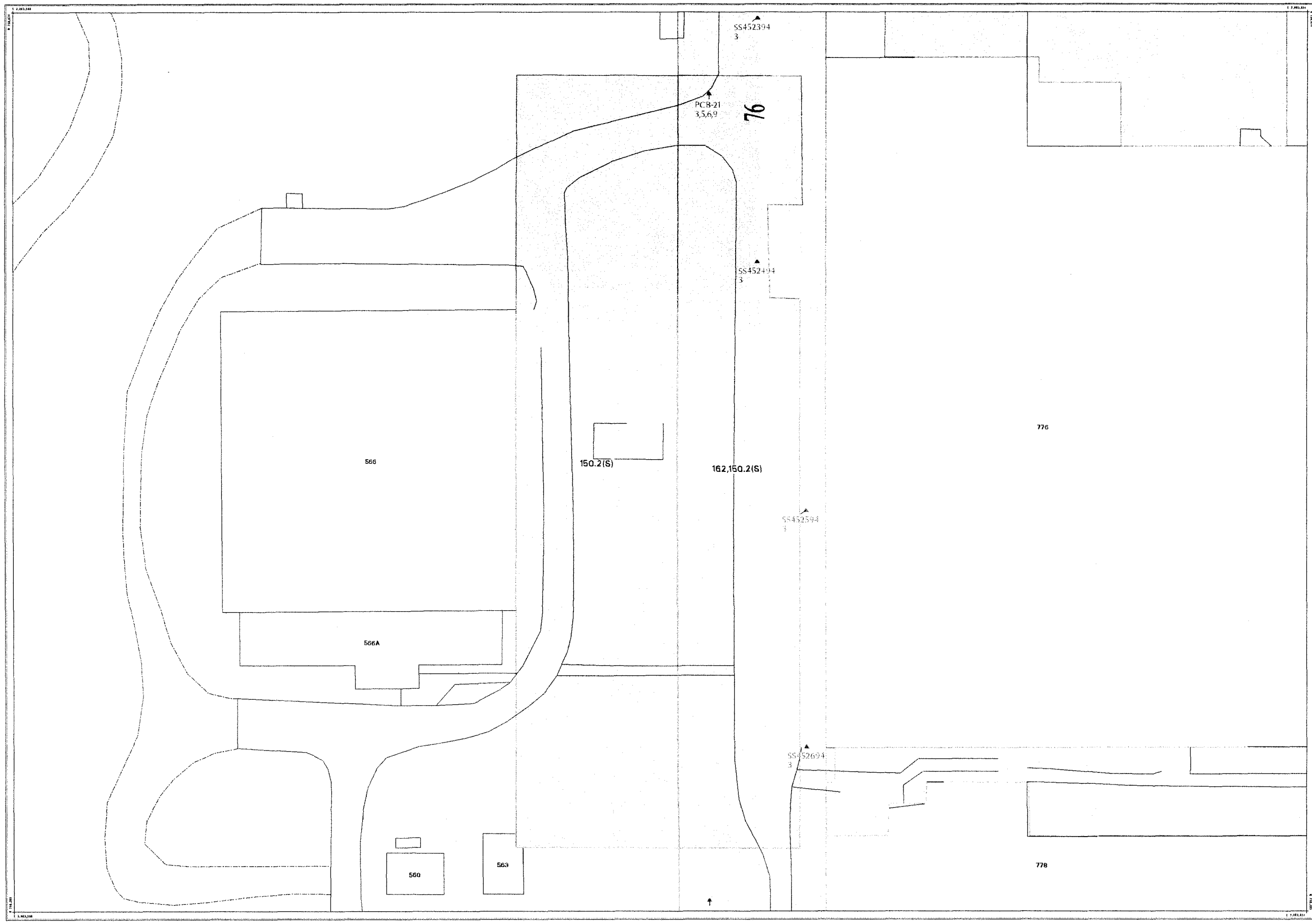
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

59



Map 38

IHSS 150.2(S)

Radioactive Site - West of Buildings 771 and 776

IA Group 500-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 150.2(S)
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 480
1 inch represents 40 feet

5 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

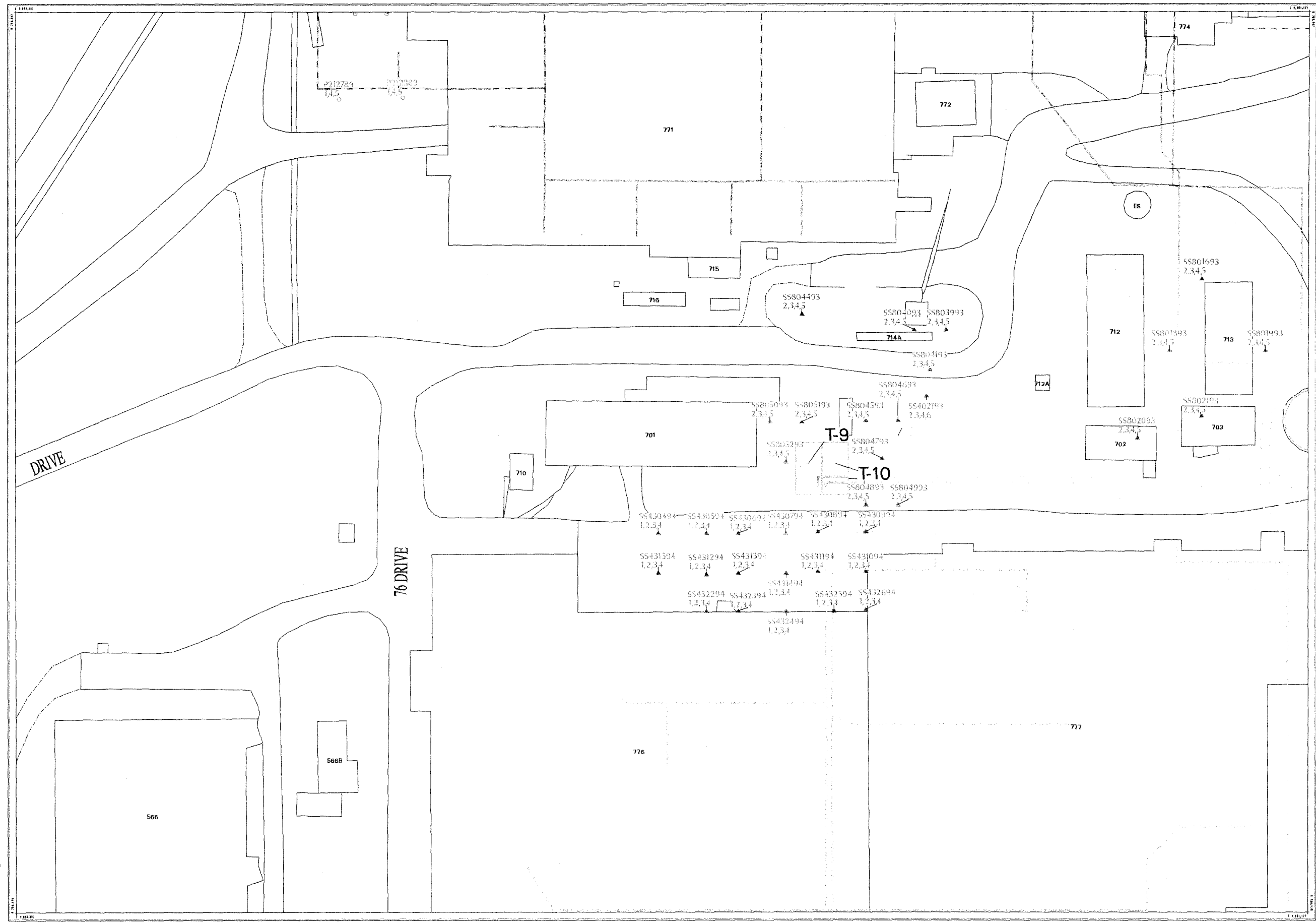
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

60



Map 39
IHSS 121
OPWL Tanks
IA Group 700-3, Tanks 9 and 10

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- Tank
- IA Boundary
- Original Process Waste Line (OPWL)

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
Tank/OPWL data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 730
1 inch represents approximately 61 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

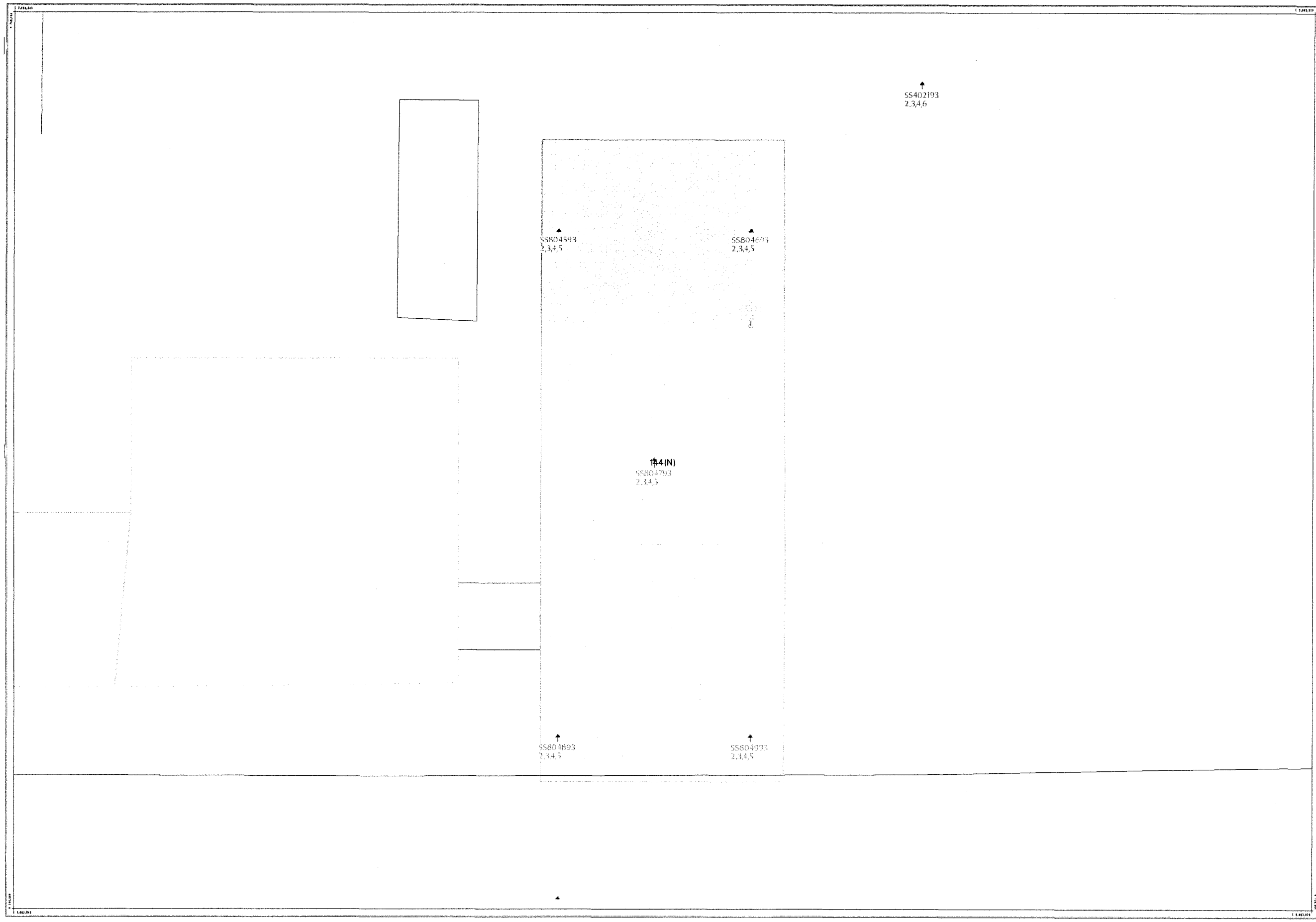
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/tanks-opwl-5.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/tanks-opwl-5.aml

61



Map 40
IHSS 144(N)
Sewer Line Overflow
IA Group 700-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 144(N)
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 120
1 inch represents 10 feet

2 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

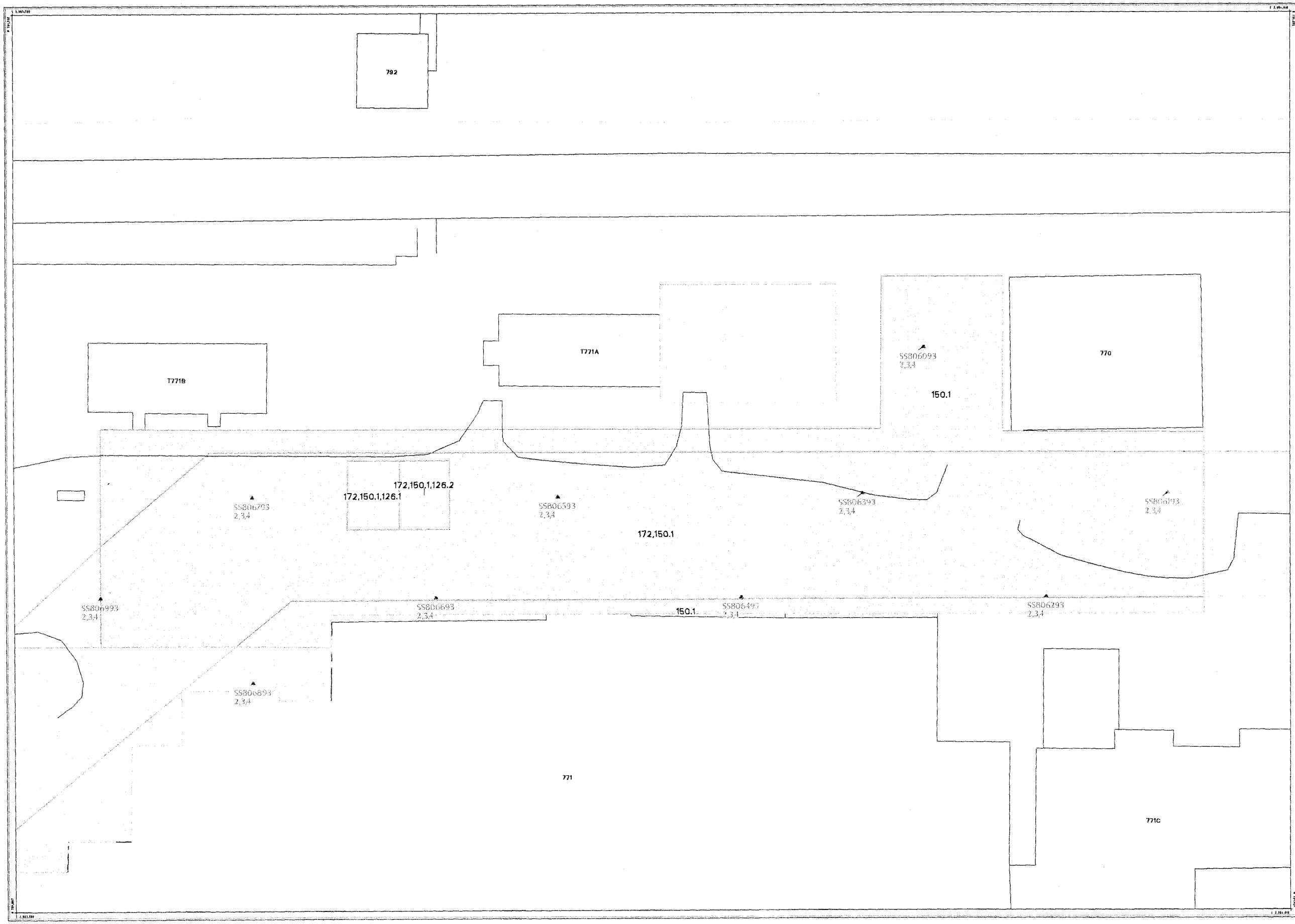
Prepared by: DynCorp THE ART OF TECHNOLOGY

Prepared for: KAISER•HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml



Map 46

IHSS 150.1

Radioactive Site - North of Building 771

IA Group 700-4

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 150.1
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Nelland (Kaiser-Hill) 303-966-5223 and Susan Sereze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 380
1 inch represents approximately 32 feet

5 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

68

Map 47

IHSS 150.3

Radioactive Site - Between Buildings 771 and 774

IA Group 700-4

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 150.3
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 170
1 inch represents approximately 14 feet

2.5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

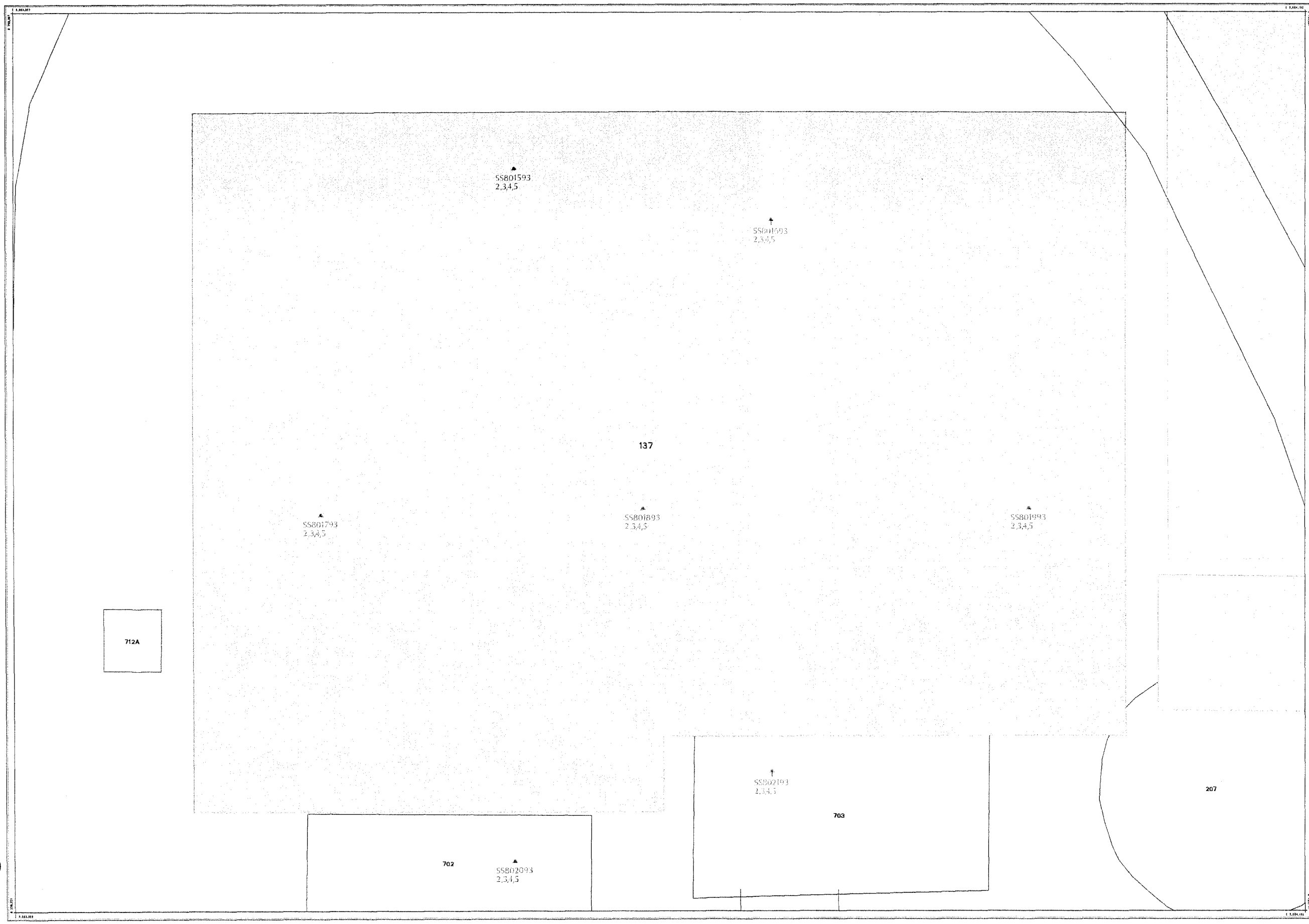
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

69



Map 48

IHSS 137

Cooling Tower Blowdown Buildings 712 and 713

IA Group 700-6

EXPLANATION

- ▲ Surface Soil Sample Location
- ○ Borehole Sample Location
- IHSS 137
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 180
1 inch represents 15 feet

2.5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

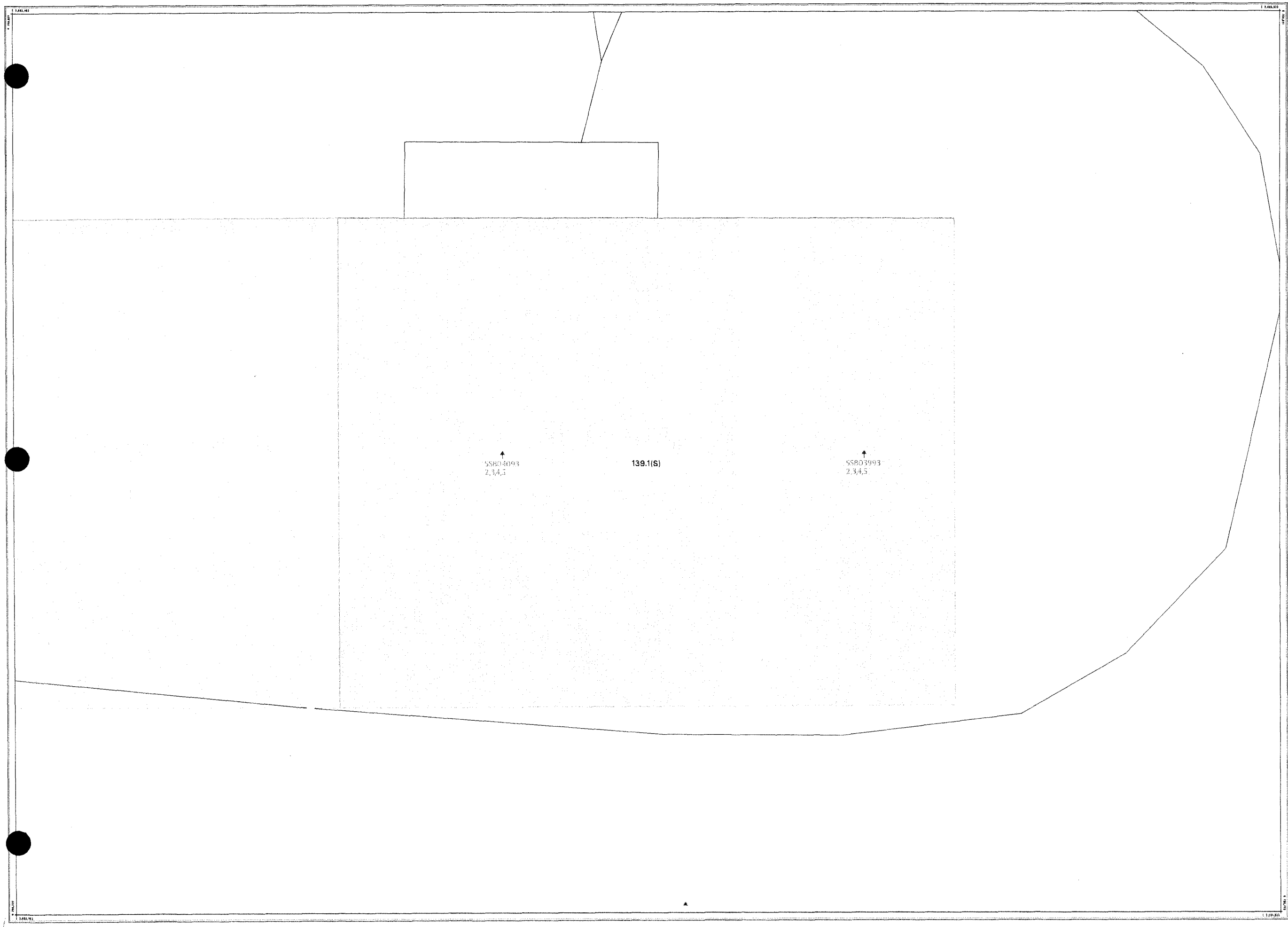
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

70



Map 49

IHSS 139.1(S)

Caustic/Acid Spills Hydroxide Tank Area

IA Group 700-6

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 139.1(S)
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbc
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chiomec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 60
1 inch represents 5 feet

1 0 2 4 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

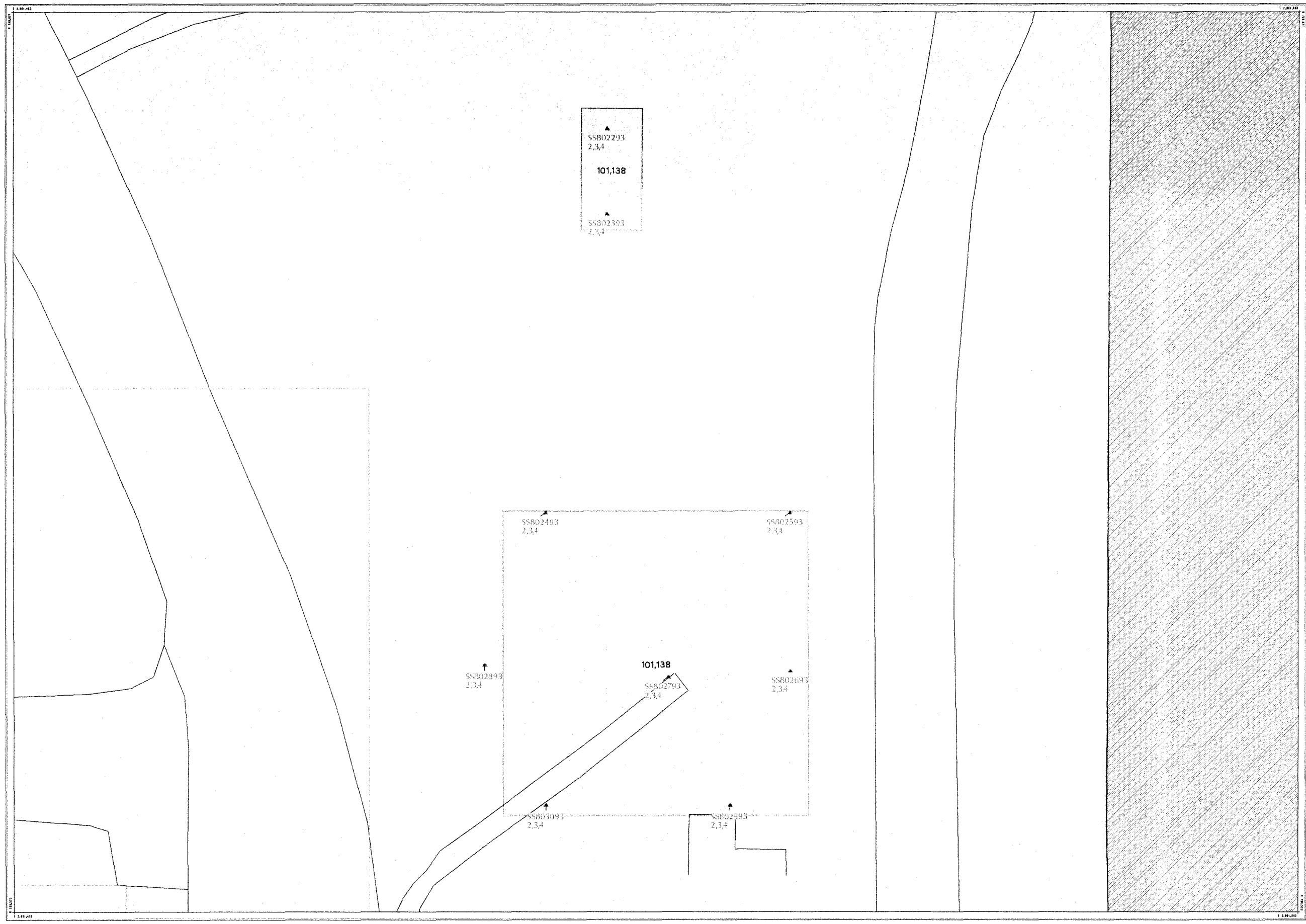
GIS Dept. 303-966-770

Prepared by: DynCorp THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2K-0225fhss.aml

September 20, 200



Map 50

IHSS 138

Cooling Tower Blowdown Building 779

IA Group 700-7

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 138
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 180
1 inch represents approximately 16 feet

2.5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

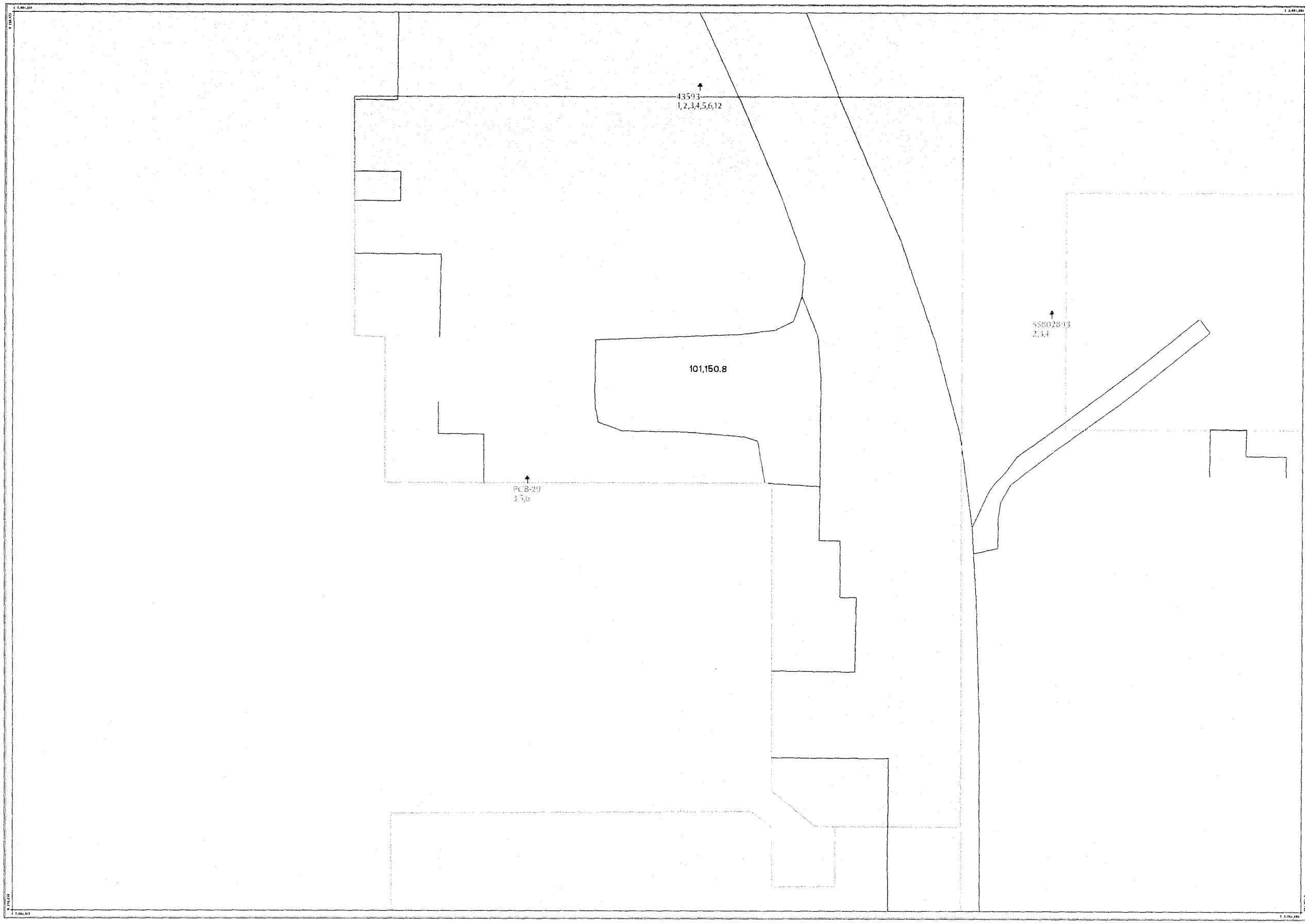
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

-72-



Map 51

IHSS 150.8

Radioactive Site - Northeast of Building 779

IA Group 700-7

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 150.8
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3987.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 250
1 inch represents approximately 21 feet

7.5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

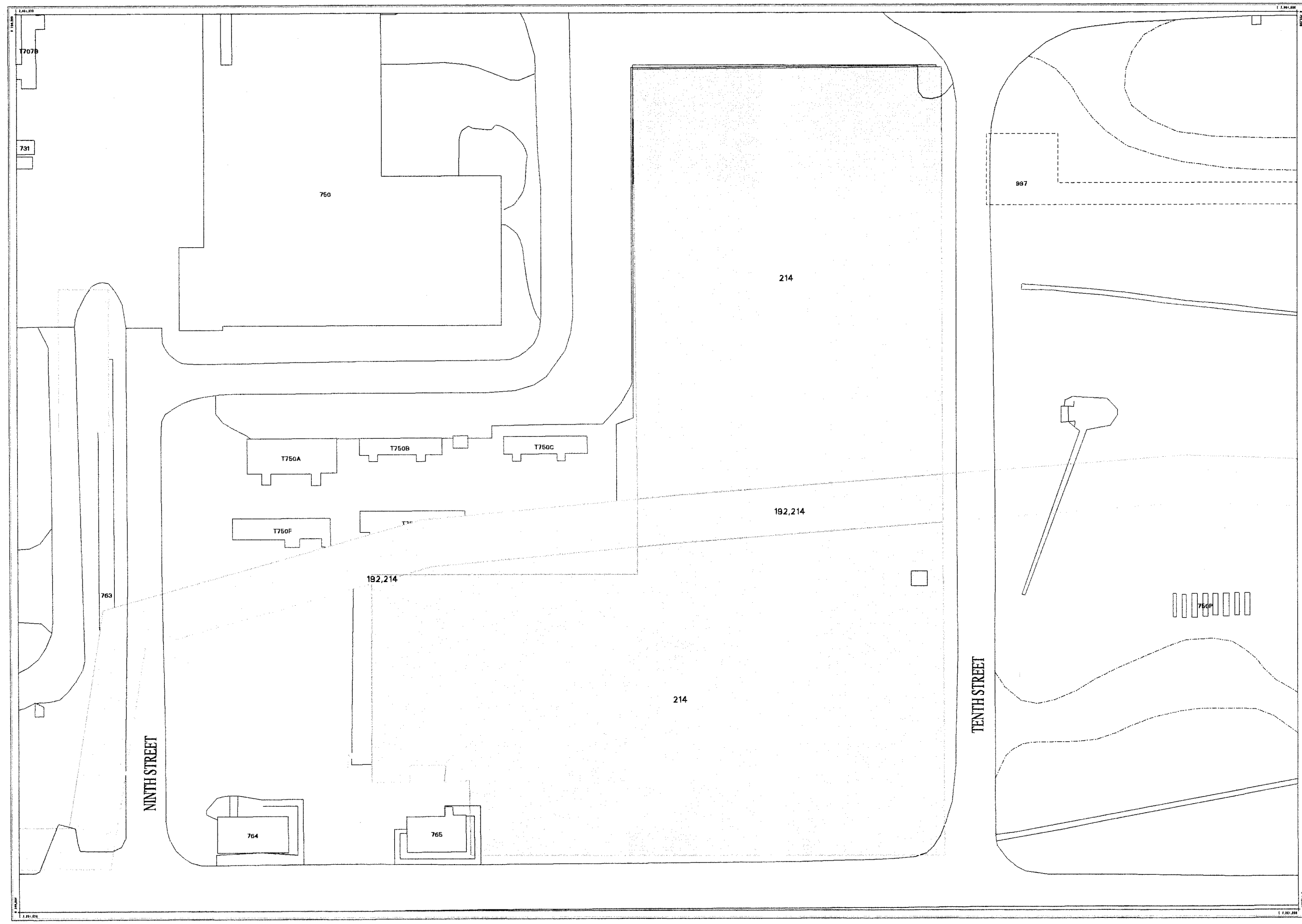
Prepared by: DynCorp THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml



Map 52
IHSS 214
750 Pad Pondcrete and Saltcrete Storage, Unit 25
IA Group 700-8

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 214
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chiomec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 780
1 inch represents 65 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

Map 53
IHSS 164.1
Radioactive Slab from Building 776
IA Group 800-4

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 164.1
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 170
1 inch represents approximately 14 feet

2 ft 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

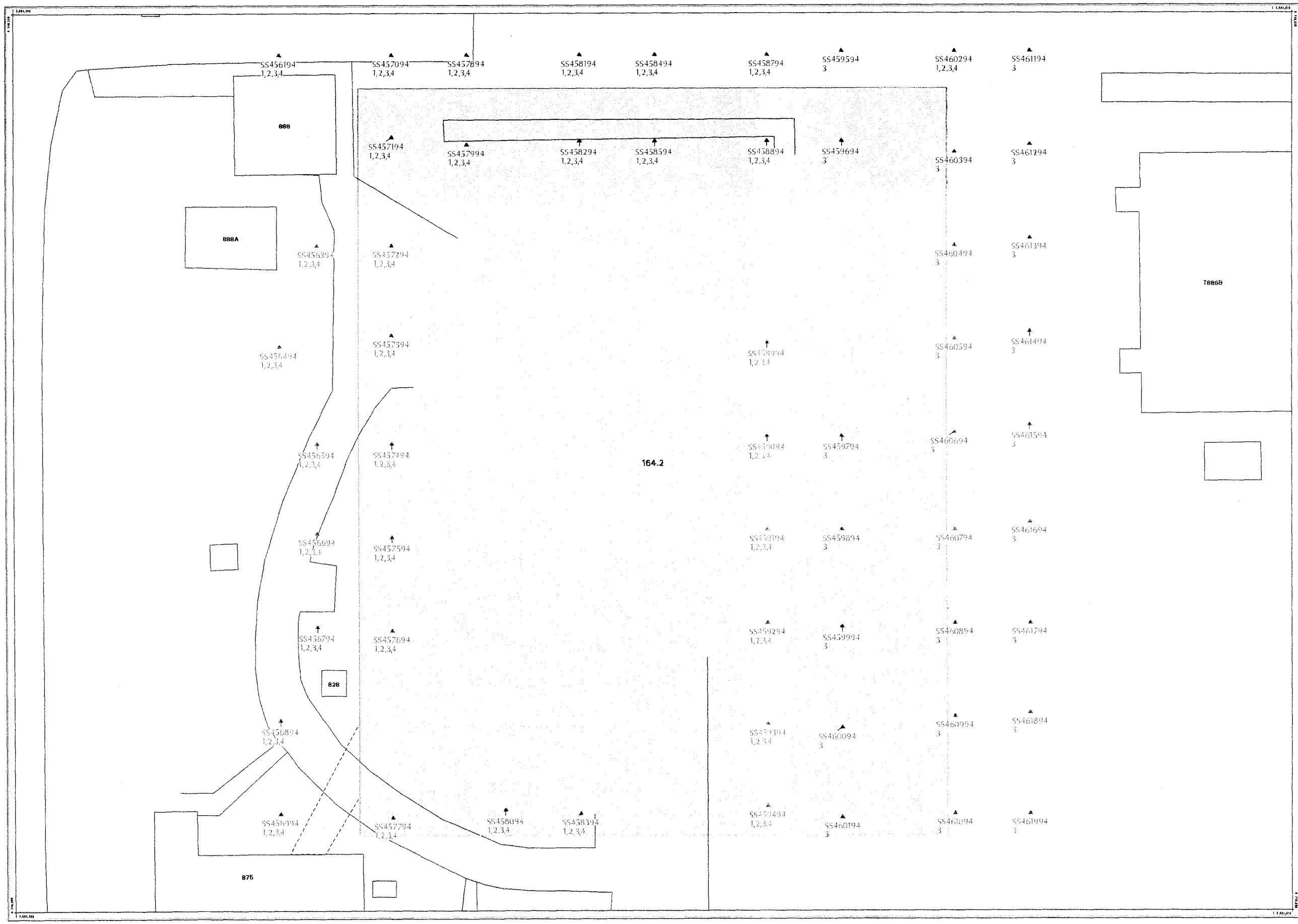
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

75



Map 54

IHSS 164.2

Radioactive Site - 800 Area Site #2, Building 886 Spills

IA Group 800-4

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 164.2
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 310
1 inch represents approximately 26 feet

5 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

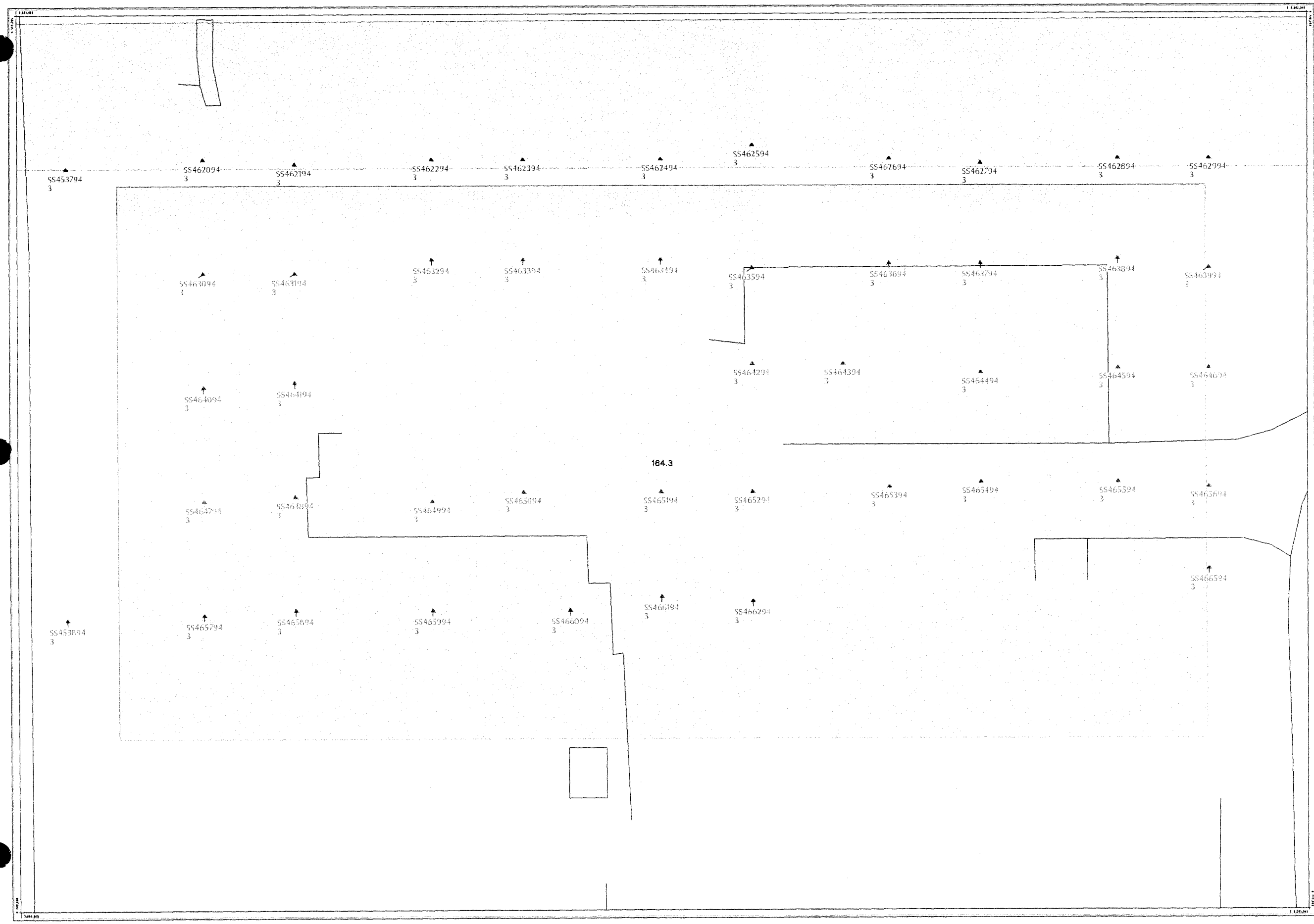
Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml



Map 55

IHSS 164.3

Radioactive Site - 800 Area Site #2, Building 889 Storage Pad

IA Group 800-6

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 164.3
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 250
1 inch represents approximately 21 feet

2.5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

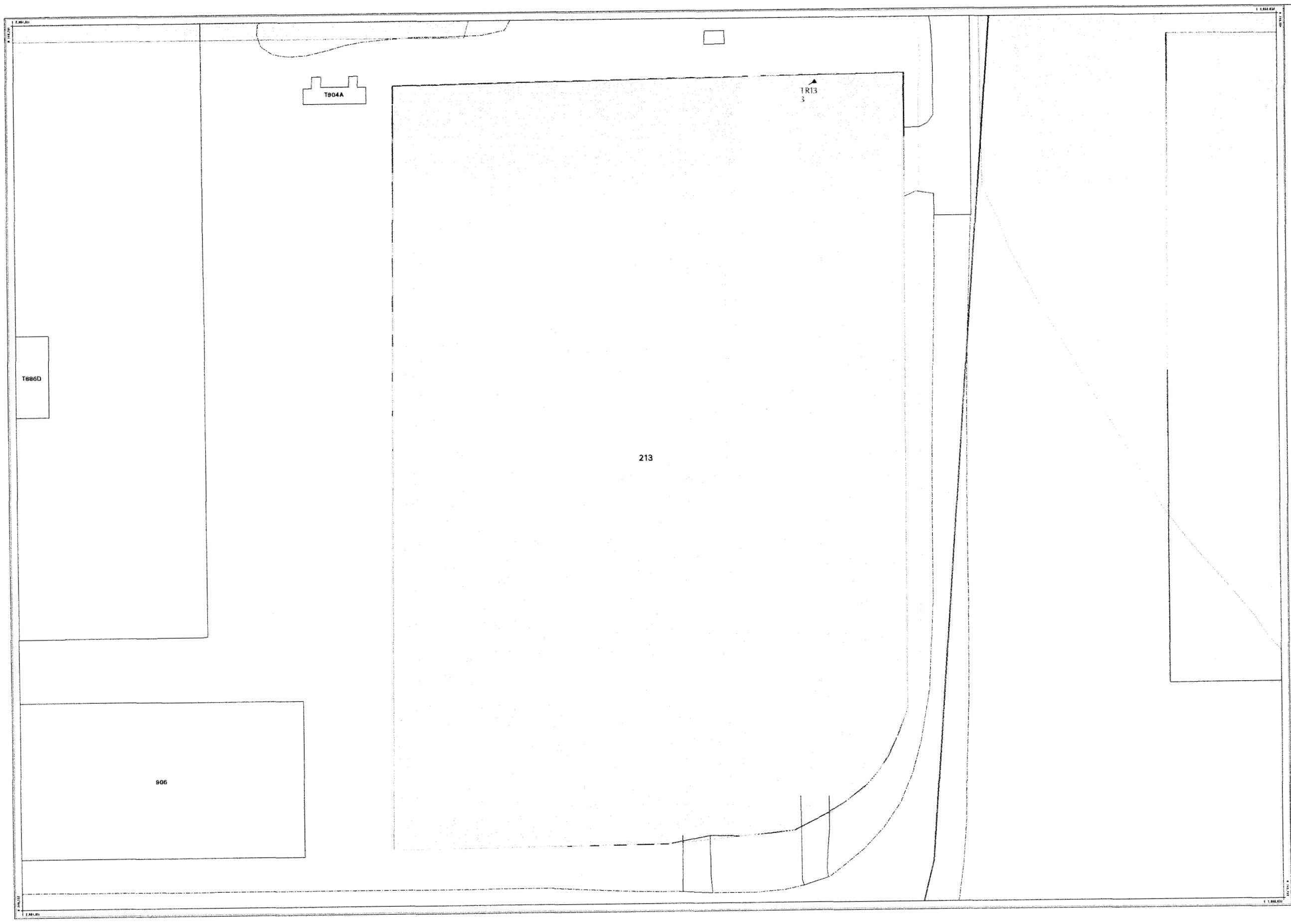
Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml



Map 56
IHSS 213
Unit 15, 904 Pad Pondcrete Storage
IA Group 900-3

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 213
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 600
1 inch represents 55 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

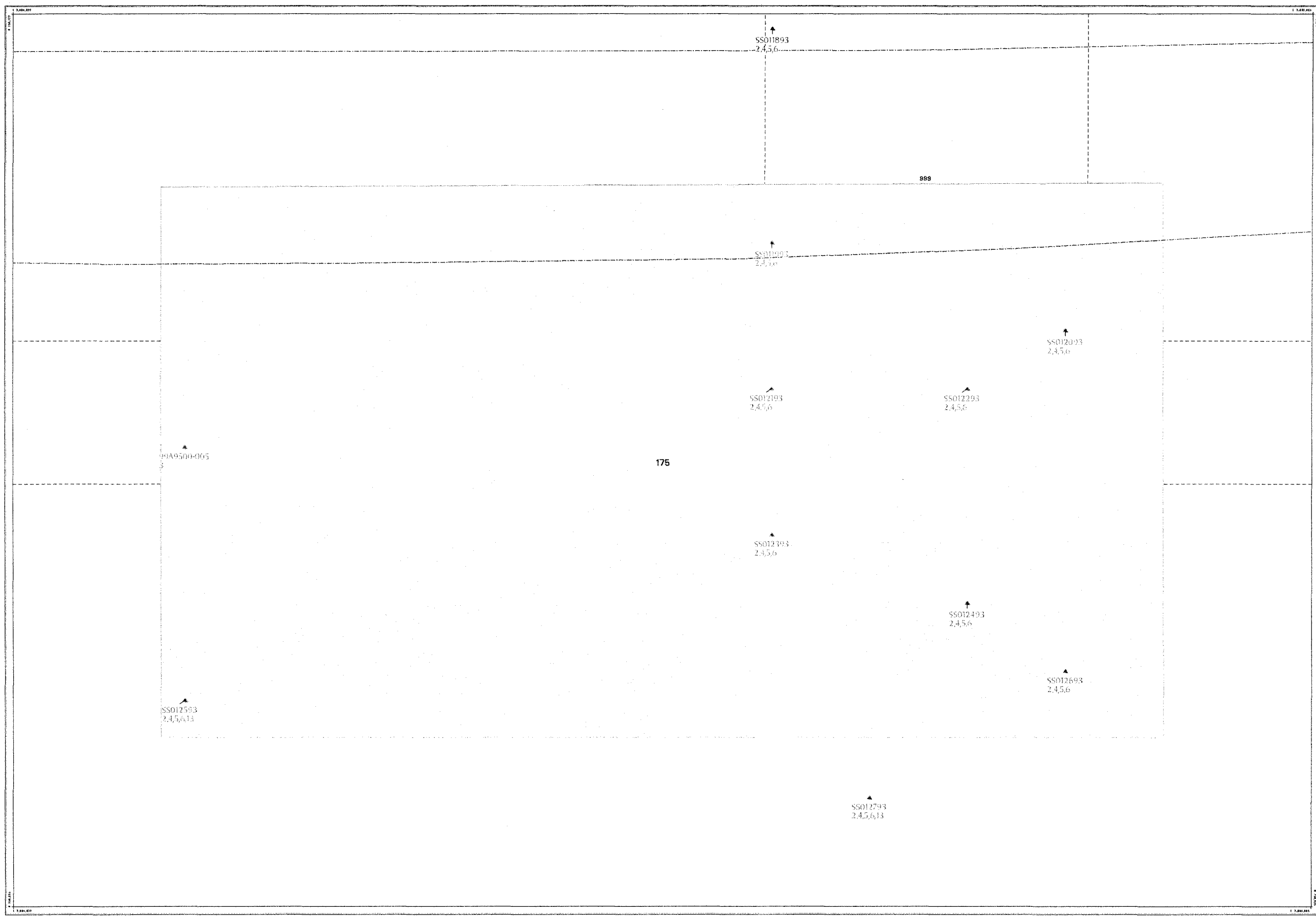
Prepared for: KAISER•HILL COMPANY

MAP ID: 2k-0225/ihss.ami

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

78



Map 57

IHSS 175

S&W Building 980 Container Storage Facility

IA Group 900-4&5

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 175
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:

Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.

Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.

Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.

IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 120
1 inch represents 10 feet

2.5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

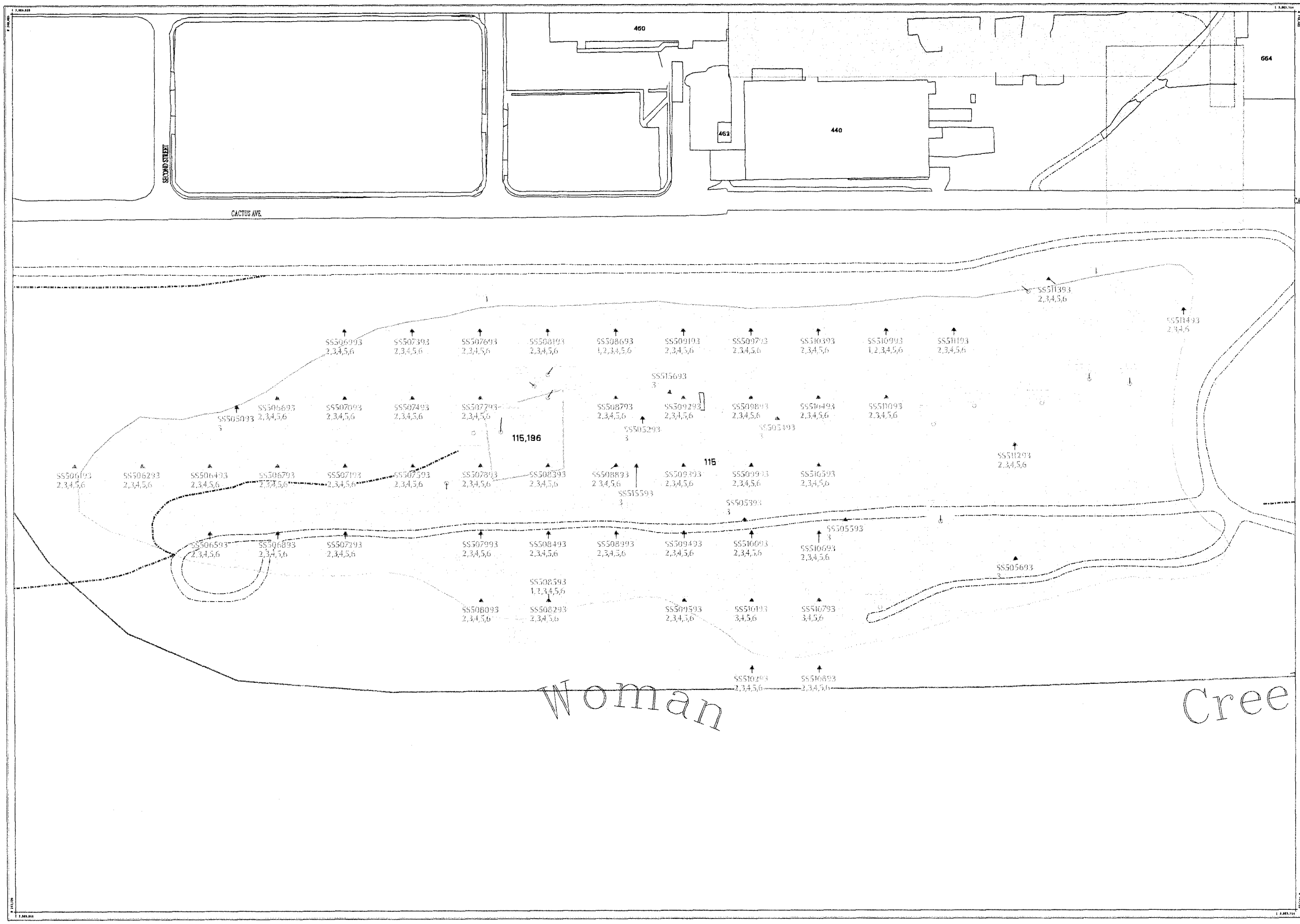
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

79



Map 58
IHSS 115
Original Landfill
IA Group SW-2

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 115
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95
Data Source:
Test Method data approved by Lee Nolland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Damos (RMRS) 303-966-4605.

Scale = 1 : 1720
1 inch represents approximately 143 feet

25 0 50 100ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

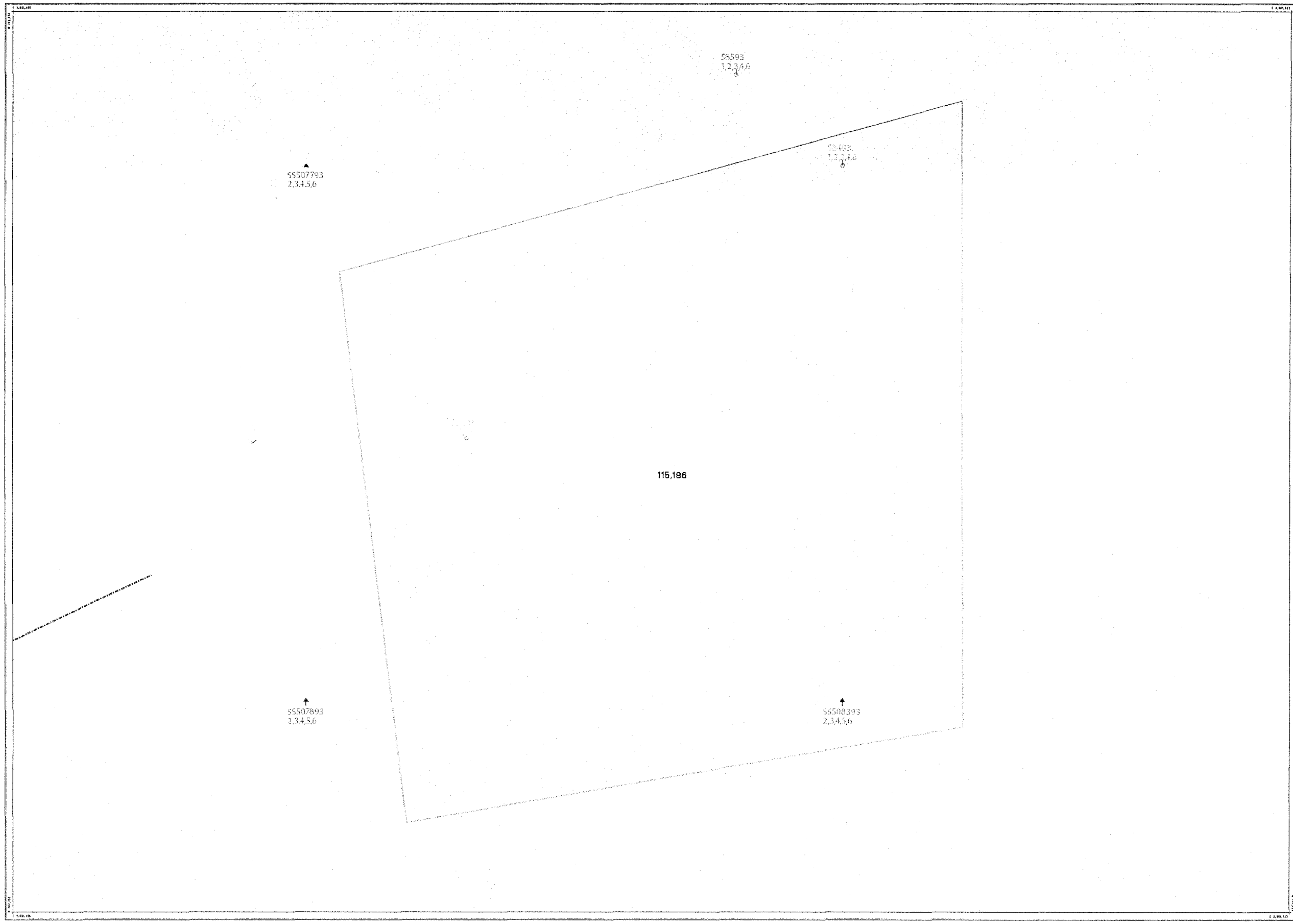
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

80



Map 59

IHSS 196

Water Treatment Plant Backwash Pond

IA Group SW-2

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 196
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serraze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 220
1 inch represents approximately 18 feet

2.5 0 5 10 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

81

Map 42

IHSS 150.2(N)

Radioactive Site - West of Buildings 771 and 776

IA Group 700-4

EXPLANATION

- ▲ Surface Soil Sample Location
- ○ Borehole Sample Location
- IHSS 150.2(N)
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 440
1 inch represents approximately 37 feet

0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

Prepared for: KAISER+HILL COMPANY

MAP ID: 2k-0225ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

Map 43
IHSS 124.1, 124.2, 124.3, 125
30,000-Gallon Tank (Tank #68)
IA Group 700-4

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 124.1, 124.2, 124.3, 125
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:

Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sanzo (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 80
1 inch represents approximately 8 feet

1 0 2 4ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp THE ART OF TECHNOLOGY

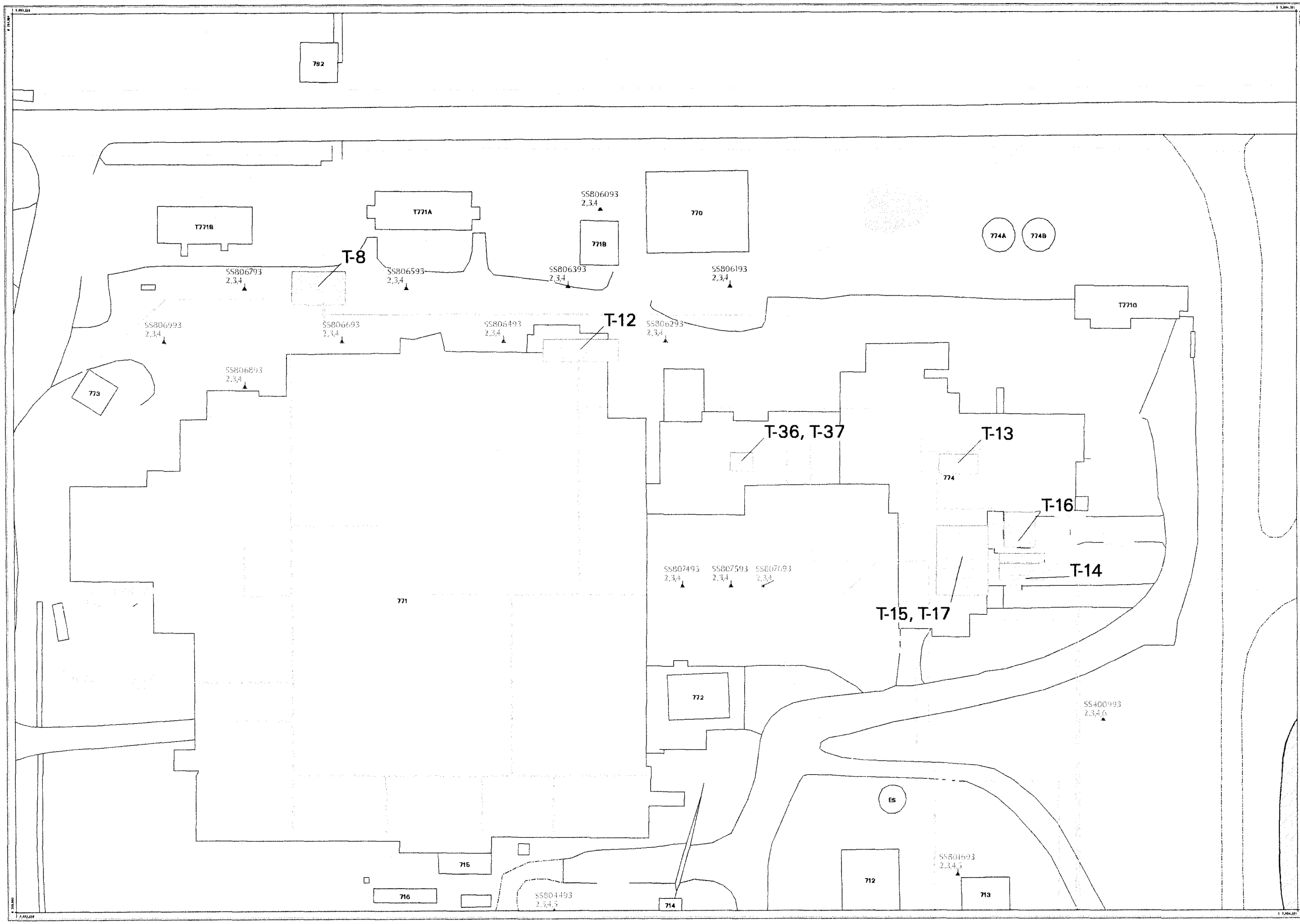
Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225/ihss.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/ihss.aml

65



Map 44
IHSS 121
OPWL Tanks
IA Group 700-4
Tanks 8, 12, 13, 14, 15, 16, 17, 36 and 37

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- Tank
- IA Boundary
- Original Process Waste Line (OPWL)

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 199-4 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
Tank/OPWL data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 720
1 inch represents 60 feet

10 0 20 40 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

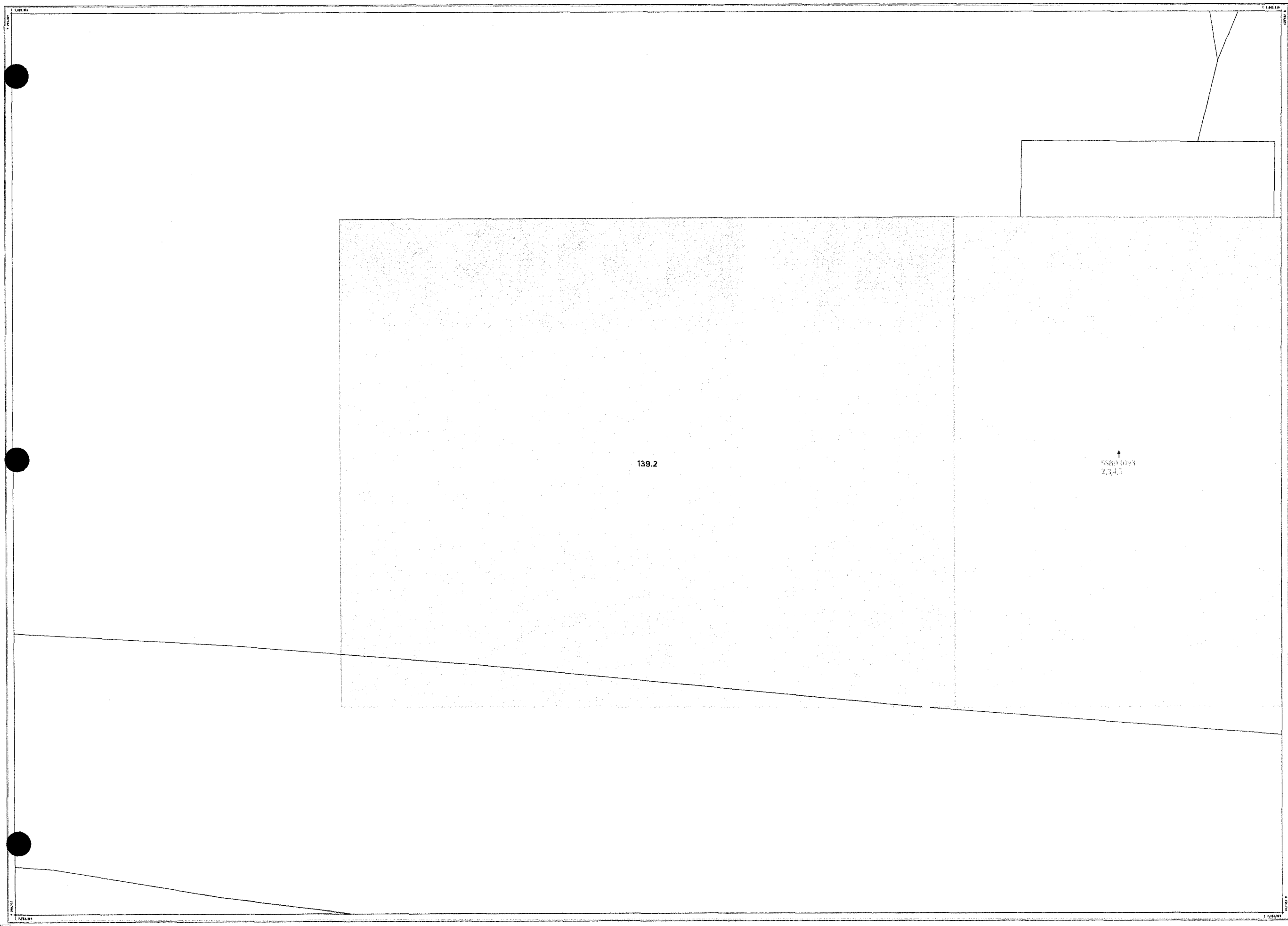
Prepared for: KAISER-HILL

MAP ID: 2k-0225/tanks-opwl-6.aml

September 20, 2000

NT_Svr h:/projects/fy2k/2k-0225/tanks-opwl-6.aml

606



Map 45

IHSS 139.2

Caustic/Acid Spills
Hydrofluoric Acid Tanks

IA Group 700-4

EXPLANATION

- Surface Soil Sample Location
- Borehole Sample Location
- IHSS 139.2
- Nearby IHSS
- IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbc
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:
Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Sarreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 60
1 inch represents 5 feet

1 0 2 4 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

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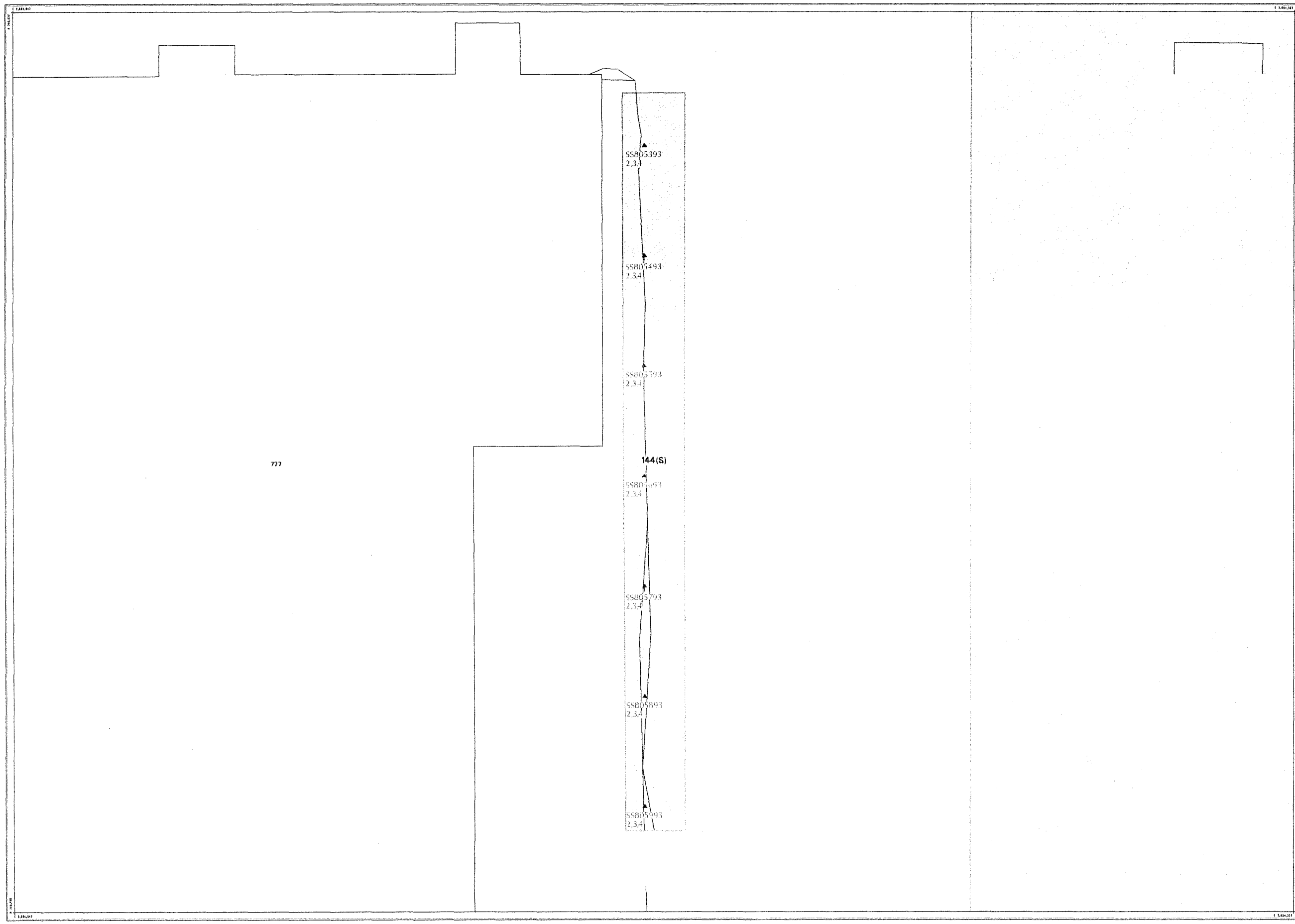
GIS Dept. 303-966-770

Prepared by: DynCorp THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225ihss.aml

September 20, 200



Map 41
IHSS 144(S)
Sewer Line Overflow
IA Group 700-3

EXPLANATION

- ▲ Surface Soil Sample Location
- ○ Borehole Sample Location
- IHSS 144(S)
- Nearby IHSS
- N IA Boundary

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- *Lakes and ponds*
- Streams, ditches, or other drainage features
- Paved roads
- Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

Data Source:
Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.
Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.
Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.
IHSS data approved by Nick Demos (RMRS) 303-966-4605.

N

Scale = 1 : 260
1 inch represents approximately 22 feet

5 0 10 20 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER-HILL COMPANY

MAP ID: 2k-0225ihss.aml

September 20, 2000

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Map 60
White Space Areas

EXPLANATION

Surface Soil Sample Location

Borehole Sample Location

White Space

IHSS

IA Boundary

Standard Map Features

Buildings and other structures

Solar Evaporation Ponds (SEP)

Lakes and ponds

Streams, ditches, or other drainage features

Paved roads

Dirt roads

TEST METHODS

Subscript	Description
1	VOCs
2	SVOCs
3	Radionuclides
4	Metals
5	Water Quality Parameters
6	Pesticides
7	Pesticides/PCBs
8	VOCs (water)
9	PCBs
10	Total Petroleum Hydrocarbons
11	Herbicides
12	Nitrates
13	Geotech
DNA	Data Not Available

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas. Digitized from the orthophotographs. 1/95

Data Source:

Test Method data approved by Lee Norland (Kaiser-Hill) 303-966-5223 and Susan Serreze (Arcadia Consulting) 303-966-2677.

Surface Soil Locations approved by Win Chromec (RMRS) 303-966-4535.

Borehole Locations approved by Steve Singer (RMRS) 303-966-3387.

IHSS data approved by Nick Demos (RMRS) 303-966-4605.

Scale = 1 : 2540
1 inch represents approximately 212 feet

100 0 200 400 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by:

DynCorp
THE ART OF TECHNOLOGY

Prepared for:

KAISER-HILL

MAP ID: 2k-0225/white_space.aml September 20, 2000

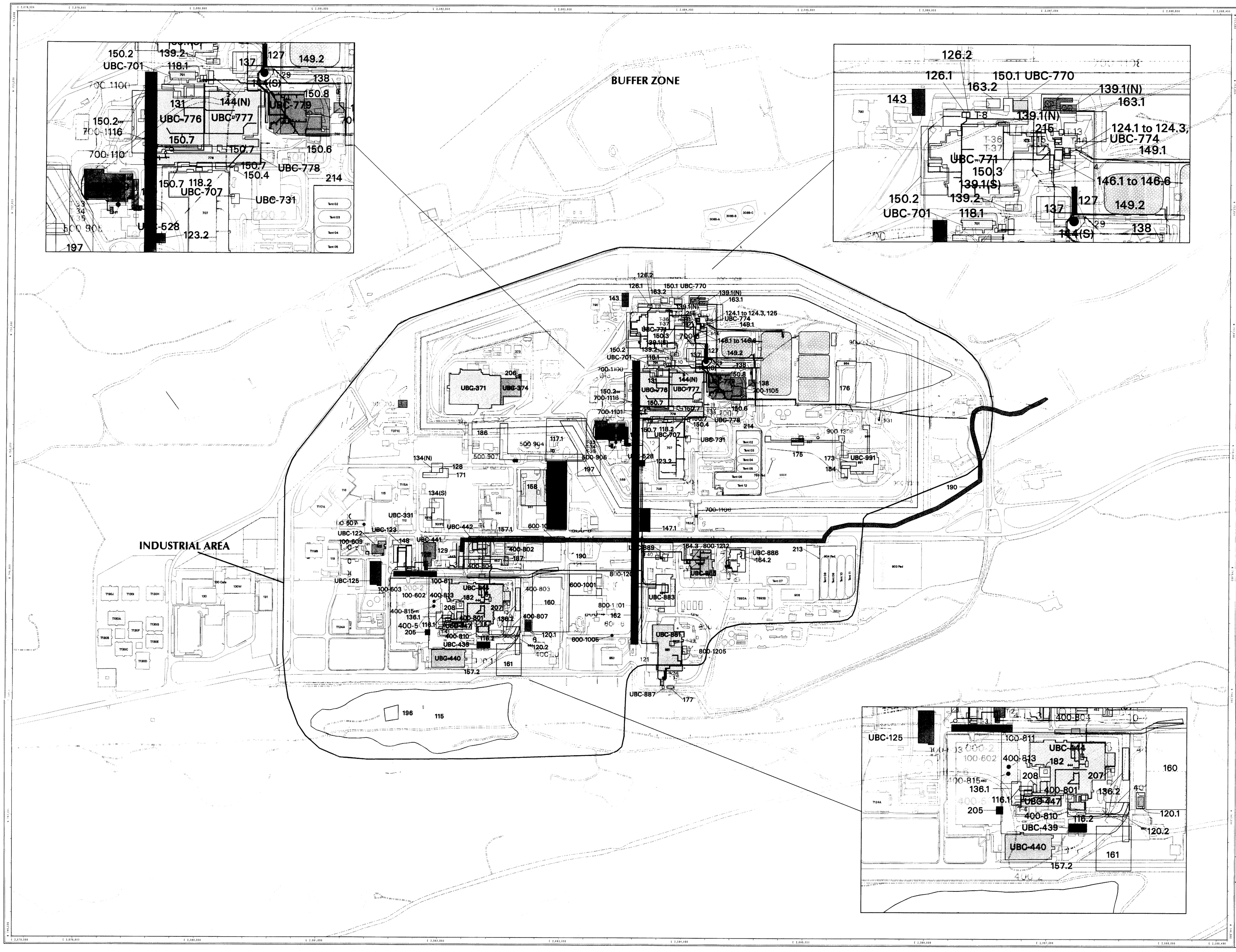

Figure 4

IA Strategy Groups and Individual Hazardous Substance Sites

EXPLANATION

IHSS Groupings

Standard Map Features

- Buildings and other structures
- Solar Evaporation Ponds (SEP)
- Lakes and ponds
- Streams, ditches, or other drainage features
- Fences and other barriers
- Paved roads
- Dirt roads
- Industrial Area Operable Unit Boundary
- Original Process Waste Lines
- Location of Original Process Waste Lines which may have been removed.

DATA SOURCE BASE FEATURES:

Buildings, fences, hydrography, roads and other structures from 1994 aerial fly-over data captured by EG&G RSL, Las Vegas.
Digitized from the orthophotographs. 1/95

PACs
Historical Release Report (HRR)
2nd Annual Update
Sept. 30, 1997
Approved by Nick Demos (RMRS, 303-966-4605).

Individual Hazardous Substance Sites (IHSS)
DOE 1992, HRR Report and Subsequent Updates.
Approved by Nick Demos (RMRS, 303-966-4605).

Scale = 1 : 3600
1 inch represents 300 feet

100 0 200 400 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy

Rocky Flats Environmental Technology Site

GIS Dept. 303-966-7707

Prepared by: DynCorp — THE ART OF TECHNOLOGY

Prepared for: KAISER•HILL COMPANY

MAP ID: 2k-0225

September 20, 2000